Delinea

Server Suite

ADEdit Command Reference and Scripting Guide

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	ADEdit Command Reference and Scripting Guide	. i
Abc	out this Guide	.1
	Intended Audience	.1
	Viewing Command Help	
	Using this Guide	. 1
Intro	oduction	.1
	How ADEdit uses Tcl	
	What ADEdit Provides	
	Administration Across Domains and Forests	
	Options for Execution	
	Library of Predefined Procedures	
	How ADEdit Works with Other Delinea Components	
	Active Directory and ADEdit	
	Managed Computers and ADEdit	
	Other Administrative Options	
	ADEdit Components	
	The ADEdit Application	
	The ade_lib Tcl Library	
	ADEdit Context	5
	Context Persistence	.6
	Pushing and Popping Contexts	.6
	Context Cautions	. 6
	Logical Organization for ADEdit Commands	. 7
Get	ting Started with ADEdit	.7
	Starting ADEdit for the First Time	.7
	Basic Command Syntax	. 8
	Arguments and Options	
	Command Execution and Results	.8
	Using Command Abbreviations	. 9
	Using the Command History	.9
	Using the Help Command	. 9
	Learning to Use ADEdit	. 9
	Binding to a Domain and Domain Controller	. 11
	Authentication	. 11
	Binding Scope and Persistence	. 12
	Binding and Join Differences	
	Controlling Binding Operation	
	Selecting an Object	
	Selection Commands	
	Selection as Part of Context	
	Persistence	.13

Creating a New Object	13
Examining Objects and Context	14
Getting Field Values for Objects	14
Getting Current Context Information	14
Modifying or Deleting Selected Objects	15
Deleting an Object	15
Saving Selected Objects	15
Pushing and Popping Context	15
Creating ADEdit Scripts	
Starting with a Simple Script	
Executing an ADEdit Script using ADEdit	
Running an ADEdit Script as an Executable from the Command	
Running an ADEdit Script as a Shell Script	18
ADEdit Commands Organized By Type	18
General Purpose Commands	
Context Commands	
Object Management Commands	
Zone Object Management Commands	
Zone User Object Management Commands	
Zone Group Object Management Commands	
Zone Computer Object Management Commands	23
Computer Role Object Management Commands	23
Role Object Management Commands	24
Role Assignment Object Management Commands	25
PAM Application Object Management Commands	26
Command (dz) Object Management Commands	
NIS Map Object Management Commands	
Active Directory Object Management Commands	
Utility Commands	
Security Descriptor Commands	30
Using the Demonstration Scripts	30
Zone Containers and Nodes	31
Create Tcl Procedures	
Create Active Directory Group Procedure	
Create Active Directory User Procedure	33
Reading Command Line Input	34
MktDept.sh	34
getopt-example	35
Create a Parent Zone	35
CreateParentZone	36
Create Child Zones	
CreateChildZones	
Create Privileged Commands and Roles	

Privileges and Role Defined in a File	38
MakeRole	39
Privileges and Roles Defined in the Script	40
ApacheAdminRole	40
Add and Provision UNIX Users	42
users.txt	42
AddUnixUsers	42
Simple Tools	43
computers-report	44
useracc-report	45
user-report	47
GetComputers	48
Run a Script from a Script	48
setenv	48
GetZones	50
GetUsers	50
GetGroups	50
GetChildZones	51
ADEdit Command Reference	51
add command to role	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
add_map_entry	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Example	
Related Commands	
add_map_entry_with_comment	54
Zone Type	54
Syntax	
Abbreviation	55
Options	55
Arguments	55
Return Value	55

	Example	. 55
	Related Commands	. 55
add_	_object_value	. 56
	Zone Type	56
	Syntax	56
	Abbreviation	56
	Options	56
	Arguments	. 56
	Return Value	. 56
	Examples	56
	Related Commands	. 57
add_	_pamapp_to_role	. 57
	Zone Type	57
	Syntax	57
	Abbreviation	57
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
add	_sd_ace	. 58
	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
	r_rs_env_from_role	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Aigumonia	. U

Return Value	64
Examples	64
Related Commands	64
create_computer_role	64
Zone Type	65
Syntax	65
Abbreviation	65
Options	65
Arguments	65
Return Value	65
Examples	65
Related Commands	66
create_zone	66
Zone Type	66
Syntax	66
Abbreviation	67
Options	67
Arguments	67
Return Value	68
Examples	68
Classic Zone	68
Hierarchical Zone	68
Computer-specific Zone	68
Related Commands	68
delegate_zone_right	69
Zone Type	69
Syntax	69
Abbreviation	69
Options	69
Arguments	69
Return Value	70
Examples	71
Related Commands	71
delete_dz_command	71
Zone Type	71
Syntax	71
Abbreviation	71
Options	71
Arguments	
Return Value	
Examples	
Related Commands	
delete_local_group_profile	
Zone Type	72

Syntax	72
Abbreviation	72
Options	73
Arguments	73
Return Value	73
Examples	73
Related Commands	73
delete_local_user_profile	74
Zone Type	74
Syntax	74
Abbreviation	74
Options	74
Arguments	74
Return Value	74
Examples	74
Related Commands	
delete_map_entry	75
Zone Type	
Syntax	
Abbreviation	76
Options	76
Arguments	
Return Value	76
Examples	76
Related Commands	76
delete_nis_map	77
Zone Type	77
Syntax	77
Abbreviation	77
Options	77
Arguments	77
Return Value	77
Examples	77
Related Commands	
delete_object	78
Zone Type	78
Syntax	78
Abbreviation	78
Options	78
Arguments	
Return Value	
Examples	
Related Commands	
delete pam app	79

Zone Type	79
Syntax	79
Abbreviation	79
Options	79
Arguments	79
Return Value	79
Examples	79
Related Commands	79
delete_role	80
Zone Type	80
Syntax	80
Abbreviation	80
Options	80
Arguments	
Return Value	
Examples	80
Related Commands	
delete_role_assignment	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
delete_rs_command	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
delete_rs_env	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	84

delete_sub_tree	
Zone Type	85
Syntax	85
Abbreviation	85
Options	85
Arguments	85
Return Value	85
Examples	85
Related Commands	85
delete_zone	86
Zone Type	86
Syntax	86
Abbreviation	86
Options	86
Arguments	86
Return Value	86
Examples	87
Related Commands	87
delete_zone_computer	87
Zone Type	87
Syntax	87
Abbreviation	87
Options	87
Arguments	88
Return Value	88
Examples	88
Related Commands	88
delete_zone_group	88
Zone Type	88
Syntax	89
Abbreviation	89
Options	89
Arguments	89
Return Value	89
Examples	89
Related Commands	89
delete_zone_user	89
Zone Type	89
Syntax	90
Abbreviation	90
Options	
Arguments	90
Return Value	
Examples	

Related Commands	90
dn_from_domain	90
Zone Type	90
Syntax	91
Abbreviation	91
Options	91
Arguments	91
Return Value	91
Examples	91
Related Commands	91
dn_to_principal	91
Zone Type	91
Syntax	91
Abbreviation	92
Options	92
Arguments	92
Return Value	92
Examples	92
Related Commands	92
domain_from_dn	92
Zone Type	93
Syntax	
Abbreviation	93
Options	93
Arguments	93
Return Value	93
Examples	93
Related Commands	93
explain_sd	93
Zone Type	93
Syntax	93
Abbreviation	94
Options	94
Arguments	
Return Value	
Examples	94
Related Commands	96
forest_from_domain	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	

	Examples	.97
get	_adinfo	.97
	Zone Type	.97
	Syntax	.97
	Abbreviation	.97
	Options	.97
	Arguments	97
	Return Value	97
	Examples	.98
	Related Commands	98
get	_bind_info	98
	Zone Type	.98
	Syntax	.98
	Abbreviation	.98
	Options	.98
	Arguments	98
	Return Value	99
	Examples	.99
	Related Commands	99
get	_child_zones	99
	Zone Type	.99
	Syntax	100
	Abbreviation	100
	Options	100
	Arguments	100
	Return Value	100
	Examples	100
	Related Commands	101
	get_dz_commands	101
	Zone Type	101
	Syntax	101
	Abbreviation	101
	Options	101
	Arguments	101
	Return Value	102
	Examples	102
	Related Commands	102
get	_dzc_field	102
	Zone Type	102
	Syntax	102
	Abbreviation	102
	Options	103
	Arguments	103
	Getting the cmd and path field values	103

Getting environment variable field values	104
Getting the command priority field value	104
Getting the umask field value	104
Getting command properties from the flags field value	104
Return Value	105
Examples	105
Related Commands	105
get_group_members	105
Zone Type	106
Syntax	
Abbreviation	106
Options	106
Arguments	106
Return Value	106
Examples	106
Related Commands	
get_local_group_profile_field	107
Zone Type	107
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
get_local_groups_profile	109
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	110
Examples	110
Related Commands	
get_local_user_profile_field	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
get local users profile	113

	Zone Type	. 113
	Syntax	113
	Abbreviation	. 113
	Options	. 113
	Arguments	.113
	Return Value	.113
	Examples	. 113
	Related Commands	.113
get	_nis_map	.114
•	Zone Type	
	Syntax	114
	Abbreviation	
	Options	. 114
	Arguments	
	Return Value	
	Examples	
	Related Commands	
aet	_nis_map_field	
3	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
aet	_nis_map_with_comment	
90.	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	.117
	Return Value	
	Examples	
	Related Commands	
net	_nis_maps	
gei	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples Related Commands	. 118 .119
	NEIGLEU CUITITIGIUS	

get_object_field	119
Zone Type	119
Syntax	119
Abbreviation	119
Options	119
Arguments	120
Return Value	120
Examples	
Related Commands	
get_object_field_names	121
Zone Type	121
Syntax	121
Abbreviation	121
Options	121
Arguments	121
Return Value	121
Examples	121
Related Commands	121
get_objects	
Syntax	
Abbreviation	
Options	
_	
Examples	
get pam apps	
•	124
•	
Options	
Arguments	
_	
Examples	
•	
•	125
•	
•	
Examples	126

Related Commands	126
get_parent_dn	127
Zone Type	127
Syntax	127
Abbreviation	127
Options	127
Arguments	127
Return Value	127
Examples	127
Related Commands	127
get_pending_zone_groups	128
Zone Type	128
Syntax	128
Abbreviation	128
Options	128
Arguments	128
Return Value	128
Examples	128
Related Commands	129
get_pending_zone_users	129
Zone Type	129
Syntax	129
Abbreviation	129
Options	129
Arguments	129
Return Value	129
Examples	130
get_pwnam	130
Zone Type	130
Syntax	130
Abbreviation	130
Options	131
Arguments	131
Return Value	131
Examples	131
Related Commands	131
get_rdn	131
Zone Type	131
Syntax	131
Abbreviation	
Options	
Arguments	
Return Value	
Examples	

Related Commands	132
get_role_apps	132
Zone Type	132
Syntax	132
Abbreviation	132
Options	132
Arguments	133
Return Value	133
Examples	133
Related Commands	133
get_role_assignment_field	133
Zone Type	134
Syntax	
Abbreviation	
Options	
Arguments	134
Return Value	135
Examples	135
Related Commands	135
get_role_assignments	
Zone Type	136
Syntax	
Abbreviation	136
Options	136
Arguments	136
Return Value	136
Examples	136
Related Commands	137
get_role_commands	137
Zone Type	137
Syntax	137
Abbreviation	137
Options	137
Arguments	137
Return Value	138
Examples	138
get_role_field	138
Zone Type	139
Syntax	
Abbreviation	
Options	
Arguments	
Getting the system rights field for a role	
Return Value	140

	Examples	. 140
	Related Commands	140
get	_role_rs_commands	. 141
	Zone Type	. 141
	Syntax	. 141
	Abbreviation	. 141
	Options	. 142
	Arguments	142
	Return Value	142
	Examples	. 142
	Related Commands	142
get	_role_rs_env	142
•	Zone Type	
	Syntax	
	Abbreviation	. 143
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
aet	_roles	
90.	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
net	_rs_commands	
gci	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
get	_rs_envs	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	. 14t
	Arguments	146

	Return Value	.146
	Examples	146
	Related Commands	147
get	_rsc_field	147
	Zone Type	147
	Syntax	147
	Abbreviation	147
	Options	147
	Arguments	147
	Return Value	.148
	Examples	148
	Related Commands	148
get	_rse_cmds	149
	Zone Type	149
	Syntax	149
	Abbreviation	149
	Options	149
	Arguments	149
	Return Value	.149
	Examples	149
	Related Commands	149
get	_rse_field	.150
	Zone Type	150
	Syntax	150
	Abbreviation	150
	Options	150
	Arguments	.150
	Return Value	.150
	Examples	151
	Related Commands	151
get	_schema_guid	.151
	Zone Type	151
	Syntax	151
	Abbreviation	151
	Options	151
	Arguments	.151
	Return Value	
	Examples	152
	Related Commands	
get	_zone_computer_field	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	152

	Arguments	152
	Return Value	153
	Examples	153
	Related Commands	153
get	_zone_computers	154
	Zone Type	154
	Syntax	154
	Abbreviation	154
	Options	154
	Arguments	154
	Return Value	.154
	Examples	154
	Related Commands	154
get	_zone_field	155
_	Zone Type	155
	Syntax	155
	Abbreviation	155
	Options	155
	Arguments	
	Return Value	
	Examples	
	Related Commands	
get	_zone_group_field	
•	Zone Type	
	Syntax	159
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
get		160
•	Zone Type	160
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
get	_zone_nss_vars	
901	Zone Type	
	Syntax	
	Abbreviation	162

Options	
Arguments	162
Return Value	162
Examples	162
Related Commands	162
get_zone_user_field	162
Zone Type	163
Syntax	
Abbreviation	163
Options	163
Arguments	163
Argument values	163
Return Value	164
Examples	164
Related Commands	164
get_zone_users	164
Zone Type	
Syntax	164
Abbreviation	
Options	
Arguments	
Return Value	
Examples	165
Related Commands	
get_zones	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	166
Related Commands	166
getent_passwd	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
guid_to_id	
Zone Type	168

Syntax	168
Abbreviation	168
Options	168
Arguments	168
Return Value	168
Examples	168
Related Commands	168
help	169
Zone Type	169
Syntax	169
Abbreviation	169
Options	169
Arguments	169
Return Value	169
Examples	169
Related Commands	170
is_dz_enabled	170
Zone Type	170
Syntax	170
Abbreviation	170
Options	170
Arguments	170
Return Value	170
Examples	170
Related Commands	170
joined_get_user_membership	171
Zone Type	171
Syntax	171
Abbreviation	171
Options	171
Arguments	171
Return Value	171
Examples	171
Related Commands	171
joined_name_to_principal	172
Zone Type	172
Syntax	172
Abbreviation	172
Options	172
Arguments	172
Return Value	172
Examples	
Related Commands	173
joined_user_in_group	173

	Zone Type	173
	Syntax	. 173
	Abbreviation	. 173
	Options	. 173
	Arguments	173
	Return Value	174
	Examples	174
	Related Commands	174
list	_dz_commands	. 174
	Zone Type	174
	Syntax	. 174
	Abbreviation	
	Options	. 174
	Arguments	
	Return Value	
	Examples	
	Related Commands	
list	_local_groups_profile	
-	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
list	local_users_profile	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	. 177
	Return Value	
	Examples	
	Related Commands	
lict	_nis_map	
IISt	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples Related Commands	178 179
	NEIGLEU CUITITIATUS	1/:

list_ni	is_map_with_comment	180
Z	one Type	. 180
S	yntax	180
Α	bbreviation	180
О	Options	. 180
Α	rguments	.180
R	Return Value	.180
Ε	xamples	. 180
R	Related Commands	.181
list_ni	is_maps	.181
Z	one Type	.181
S	Syntax	181
Α	bbreviation	181
О	Options	. 181
Α	rguments	.181
R	Return Value	.182
Е	xamples	. 182
	Related Commands	
lis	st_pam_apps	182
	one Type	
	Syntax	
	, bbreviation	
	Options	
	rguments	
	Return Value	
	xamples	
	Related Commands	
	ending_zone_groups	
-	one Type	
	Syntax	
	bbreviation	
	Options	
	rguments	
	Return Value	
	ixamples	
	Related Commands	
	ending_zone_users	
-	one Type	
	Syntax	
	lbbreviation	
	Options	
	•	
	rguments Return Value	
	iyamnles	186
	ACHUMES	- i Or

Related Commands	186
list_role_assignments	186
Zone Type	186
Syntax	186
Abbreviation	186
Options	186
Arguments	187
Return Value	
Examples	
Related Commands	
list_role_rights	188
Zone Type	188
Syntax	
Abbreviation	
Options	188
Arguments	188
Return Value	
Examples	189
Related Commands	
list_roles	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
list_rs_commands	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
Related Commands	
list_rs_envs	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	193

	Return Value	193
1	Examples	193
1	Related Commands	193
	list_zone_computers	193
	Zone Type	194
;	Syntax	194
	Abbreviation	194
(Options	194
	Arguments	194
1	Return Value	194
1	Examples	194
1	Related Commands	194
list_z	zone_groups	195
	Zone Type	195
;	Syntax	195
	Abbreviation	195
	Options	195
	Arguments	195
1	Return Value	195
	Examples	195
	Related Commands	196
list_:	zone_users	196
	Zone Type	196
;	Syntax	196
	Abbreviation	196
(Options	196
	Arguments	
	Return Value	
	Examples	197
	Related Commands	197
man	nage_dz	198
	Zone Type	198
;	Syntax	198
	Abbreviation	
(Options	198
	Arguments	198
	Return Value	
1	Examples	198
	Related Commands	
	re_object	
	Zone Type	
	Syntax	
	Abbreviation	
	Options	199

Arguments	199
Return Value	199
Example	199
Related Commands	200
new_dz_command	200
Zone Type	200
Syntax	200
Abbreviation	200
Options	200
Arguments	
Return Value	
Examples	200
Related Commands	20
new_local_group_profile	20 ⁻
Zone Type	
Syntax	
Abbreviation	
Options	202
Arguments	
Return Value	
Examples	
Related Commands	
new_local_user_profile	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
new nis map	205
Zone Type	205
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
new_object	20-
Zone Type	
Syntax	
Abbreviation	207

Options	207
Arguments	207
Return Value	207
Examples	207
Related Commands	207
new_pam_app	208
Zone Type	208
Syntax	208
Abbreviation	208
Options	208
Arguments	208
Return Value	209
Examples	209
Related Commands	209
new_role	209
Zone Type	209
Syntax	209
Abbreviation	210
Options	210
Arguments	210
Return Value	210
Examples	210
Related Commands	210
new_role_assignment	211
Zone Type	211
Syntax	211
Abbreviation	211
Options	211
Arguments	211
Return Value	212
Examples	212
Related Commands	212
new_rs_command	212
Zone Type	213
Syntax	213
Abbreviation	213
Options	213
Arguments	213
Return Value	213
Examples	213
Related Commands	213
new_rs_env	214
Zone Type	214
Svntax	214

Abbreviation	214
Options	214
Arguments	214
Return Value	214
Examples	214
Related Commands	214
new_zone_computer	215
Zone Type	215
Syntax	215
Abbreviation	215
Options	215
Arguments	215
Return Value	216
Examples	216
Related Commands	216
new_zone_group	216
Zone Type	217
Syntax	217
Abbreviation	217
Options	217
Arguments	
Return Value	
Examples	217
Related Commands	217
new_zone_user	218
Zone Type	218
Syntax	218
Abbreviation	218
Options	218
Arguments	218
Return Value	219
Examples	219
Related Commands	219
pop	219
Zone Type	219
Syntax	219
Abbreviation	
Options	
Arguments	220
Return Value	
Examples	220
Related Commands	220
principal_from_sid	
Zone Type	220

Syntax	220
Abbreviation	220
Options	220
Arguments	220
Return Value	221
Examples	221
Related Commands	221
principal_to_dn	221
Zone Type	221
Syntax	221
Abbreviation	221
Options	221
Arguments	221
Return Value	222
Examples	222
Related Commands	
principal_to_id	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
push	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
quit	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
remove command from role	225

Zone Type	225
Syntax	225
Abbreviation	225
Options	225
Arguments	225
Return Value	226
Examples	226
Related Commands	
remove_object_value	226
Zone Type	227
Syntax	227
Abbreviation	
Options	
Arguments	
Return Value	
Examples	227
Related Commands	
remove_pamapp_from_role	228
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
remove_sd_ace	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	230
Return Value	230
Examples	
Related Commands	
rename_object	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	232

save_dz_command	232
Zone Type	232
Syntax	233
Abbreviation	233
Options	233
Arguments	233
Return Value	
Examples	
Related Commands	
save_local_group_profile	233
Zone Type	
Syntax	234
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
save_local_user_profile	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
save_nis_map	
Zone Type	
Syntax	
Abbreviation	
Options	237
Arguments	237
Return Value	
Examples	
Related Commands	
save object	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	239

Related Commands	239
save_pam_app	239
Zone Type	239
Syntax	239
Abbreviation	239
Options	240
Arguments	240
Return Value	240
Examples	240
Related Commands	240
save_role	240
Zone Type	240
Syntax	240
Abbreviation	241
Options	241
Arguments	241
Return Value	241
Examples	241
Related Commands	241
save_role_assignment	242
Zone Type	242
Syntax	242
Abbreviation	242
Options	242
Arguments	242
Return Value	242
Examples	242
Related Commands	242
save_rs_command	243
Zone Type	243
Syntax	243
Abbreviation	
Options	243
Arguments	
Return Value	
Examples	
Related Commands	243
save rs env	244
Zone Type	244
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	244

Examples	244
Related Commands	245
save_zone	
Zone Type	245
Syntax	245
Abbreviation	245
Options	245
Arguments	
Return Value	
Examples	246
Related Commands	
save_zone_computer	246
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
save_zone_group	247
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
save_zone_user	
Zone Type	
Syntax	249
Abbreviation	249
Options	
Arguments	
Return Value	249
Examples	
Related Commands	
select_dz_command	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	250

Return Value	250
Examples	250
Related Commands	25 ⁻
select_local_group_profile	25 ⁻
Zone Type	25 ⁻
Syntax	25 ⁻
Abbreviation	
Options	25 ⁻
Arguments	
Return Value	
Examples	252
Related Commands	
select_local_user_profile	253
Zone Type	253
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
select_nis_map	
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
select_object	
Zone Type	256
Syntax	256
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
select pam app	
Zone Type	
Syntax	
Abbreviation	
Options	25

Arguments	258
Return Value	
Examples	258
Related Commands	258
select_role	259
Zone Type	259
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	259
Related Commands	
select_role_assignment	260
Zone Type	
Syntax	
Abbreviation	
Options	26
Arguments	
Return Value	
Examples	
Related Commands	
select_rs_command	262
Zone Type	
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
select rs env	263
Zone Type	263
Syntax	
Abbreviation	
Options	
Arguments	
Return Value	
Examples	
Related Commands	
select zone	
Zone Type	
Syntax	
Abbreviation	265

Options	265
Arguments	265
Return Value	265
Examples	266
Related Commands	266
select_zone_computer	
Zone Type	266
Syntax	
Abbreviation	267
Options	267
Arguments	
Return Value	
Examples	267
Related Commands	267
select_zone_group	268
Zone Type	268
Syntax	
Abbreviation	
Options	268
Arguments	268
Return Value	268
Examples	268
Related Commands	269
select_zone_user	269
Zone Type	269
Syntax	
Abbreviation	
Options	269
Arguments	269
Return Value	270
Examples	270
Related Commands	270
set_dzc_field	270
Zone Type	27 ⁻
Syntax	27 ⁻
Abbreviation	27 ⁻
Options	27 ⁻
Arguments	27 ⁻
Setting the cmd and path field values	272
Specifying the environment variables to use	272
Specifying the command priority	
Specifying the umask value	273
Specifying command properties using the flags field	273
Return Value	273

Related Commands 274 etel Idap timeout 274 Zone Type 274 Syntax 274 Abbreviation 274 Options 274 Arguments 274 Return Value 275 Examples 275 Related Commands 275 et local group profile field 275 Zone Type 275 Syntax 271 Abbreviation 275 Options 275 Arguments 276 Examples 276 Return Value 276 Examples 276 Ret calculuser profile field 277 Zone Type 277 Arguments 277 Arguments 277 Return Value 278 Examples 278 Return Value 278 Examples 278 Return Value 278 Examples 278 Robreviation 280 Options 280		Examples	273
Zone Type 274 Syntax 274 Abbreviation 274 Options 274 Arguments 275 Return Value 275 Examples 275 Related Commands 275 set_local_group_profile_field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Abbreviation 277 Options 277 Arguments 276 Return Value 276 Examples 276 Related Commands 276 Expote_tield 276 Zone Type 286 Syntax 280 Abbreviation 286 Options		Related Commands	274
Syntax 274 Abbreviation 277 Options 274 Arguments 275 Return Value 275 Examples 275 Related Commands 275 set Local group_profile field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Examples 276 Return Value 276 Examples 276 Ret Coda_user_profile_field 277 Zone Type 277 Abbreviation 277 Options 277 Arguments 276 Return Value 276 Examples 276 Reted Commands 276 Examples 276 Return Value 278 Syntax 280 Apbreviation 280 Coptions 276 Return Value <	set	_ldap_timeout	274
Abbreviation 274 Options 274 Arguments 274 Return Value 275 Examples 275 Related Commands 275 Related Componentie field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 Explicated Field 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 276 Examples 276 Return Value 276 Examples 276 Syntax 286 Abbreviation 280 Options 280 Syntax 280 Abbreviation 280 Options 280 Syntax 280 Arguments 28		Zone Type	274
Options 274 Arguments 274 Return Value 275 Examples 275 Related Commands 275 set_local_group_profile_field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Examples 276 Related Commands 276 tet_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 276 Arguments 276 tet_object_field 276 Zone Type 286 Syntax 286 Syntax 286 Syntax 286 Abbreviation 286 Options 286 Arguments 286 Return Value 286 Examples 286 Arguments 286<		Syntax	274
Arguments 274 Return Value 275 Examples 275 Related Commands 275 set local group_profile_field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Examples 276 Return Value 276 Ext local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_object_field 277 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Return Value 280		Abbreviation	274
Arguments 274 Return Value 275 Examples 275 Related Commands 275 set local group_profile_field 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Examples 276 Return Value 276 Ext local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_object_field 277 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Return Value 280		Options	274
Return Value 275 Examples 275 Related Commands 275 Related Commands 275 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 ret local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 ret_object_field 275 Zone Type 286 Syntax 286 Abpreviation 286 Options 286 Syntax 286 Abpreviation 286 Options 286 Arguments 2			
Related Commands 275 set_local_group_profile_field 277 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_object_field 276 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Return Value 280 <			
Related Commands 275 set_local_group_profile_field 277 Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_object_field 276 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Return Value 280 <		Examples	275
Zone Type 275 Syntax 275 Abbreviation 275 Options 275 Arguments 275 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 276 Examples 278 Related Commands 275 zone Type 286 Syntax 280 Abbreviation 286 Options 286 Arguments 286 Arguments 286 Return Value 286 Examples 286 Return Value			
Syntax 275 Abbreviation 275 Options 275 Arguments 275 Return Value 276 Examples 276 Related Commands 276 set local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Return Value 280 Examples 280 Related Commands 280 Return	set	_local_group_profile_field	275
Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Valu		Zone Type	275
Abbreviation 275 Options 275 Arguments 276 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Valu		Syntax	275
Options 275 Arguments 275 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Related Commands 280 iet_pam_field 281 Zone Type 281 Examples 280 Related Commands 280 Related Commands 280 Related Commands 280			
Arguments 275 Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 286 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Related Commands		Options	275
Return Value 276 Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 286 Syntax 286 Abbreviation 286 Options 286 Arguments 286 Return Value 286 Examples 286 Related Commands 286 iet_pam_field 287 Zone Type 287			
Examples 276 Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281 Zone Type 281			
Related Commands 276 set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
set_local_user_profile_field 277 Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 Retarn field 281 Zone Type 281 Zone Type 281			
Zone Type 277 Syntax 277 Abbreviation 277 Options 277 Arguments 276 Return Value 276 Examples 276 Related Commands 275 set_object_field 275 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 Related Commands 280 Set_pam_field 281 Zone Type 281	set		
Syntax 277 Abbreviation 277 Options 278 Arguments 278 Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 Related Commands 280 Zone Type 281 Zone Type 281		,	
Abbreviation 277 Options 278 Arguments 278 Return Value 278 Examples 278 Related Commands 279 Set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 Ret_pam_field 281 Zone Type 281		•	
Options 277 Arguments 278 Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281		•	
Arguments 278 Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Return Value 278 Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Examples 278 Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Related Commands 279 set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
set_object_field 279 Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Zone Type 280 Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281	set		
Syntax 280 Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Abbreviation 280 Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 280		_	
Options 280 Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281		Abbreviation	280
Arguments 280 Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Return Value 280 Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281		•	
Examples 280 Related Commands 280 set_pam_field 281 Zone Type 281			
Related Commands			
zet_pam_field			
Zone Type	set		
	JC1_		
Abbreviation 28°		•	
Options 28°			
Arguments 281		•	

	Return Value	282
	Examples	282
	Related Commands	282
set	_role_assignment_field	. 283
	Zone Type	283
	Syntax	. 283
	Abbreviation	283
	Options	283
	Arguments	283
	Return Value	284
	Examples	284
	Related Commands	284
set	_role_field	284
	Zone Type	284
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Setting the system rights field value for a role	
	Return Value	
	Examples	
	Related Commands	
set	_rs_env_for_role	
_	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	288
set	rsc field	289
_	Zone Type	289
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Setting the cmd and path field values for a restricted command	
	Specifying the environment variables for a restricted command	
	Specifying the restricted command priority	
	Specifying the umask value for restricted commands	
	Specifying restricted command properties using the flags field	
	Return Value	291
	Examples	291

	Related Commands	291
set	_rse_field	292
	Zone Type	292
	Syntax	292
	Abbreviation	292
	Options	292
	Arguments	292
	Return Value	293
	Examples	293
	Related Commands	293
set	_sd_owner	293
	Zone Type	293
	Syntax	293
	Abbreviation	293
	Options	
	Arguments	294
	Return Value	294
	Examples	294
	Related Commands	295
set	_user_password	295
	Zone Type	
	Syntax	295
	Abbreviation	295
	Options	
	Arguments	
	Return Value	296
	Examples	296
	Related Commands	296
set	_zone_computer_field	296
	Zone Type	296
	Syntax	296
	Abbreviation	296
	Options	296
	Arguments	296
	Return Value	
	Examples	
	Related Commands	297
set	_zone_field	297
-	 Zone Type	
	Syntax	
	Abbreviation	298
	Options	
	Arguments	
	Return Value	299

	Examples	299
	Related Commands	299
set	_zone_group_field	300
	Zone Type	300
	Syntax	300
	Abbreviation	300
	Options	300
	Arguments	300
	Return Value	301
	Examples	301
	Related Commands	301
set	_zone_user_field	302
	Zone Type	302
	Syntax	302
	Abbreviation	302
	Options	302
	Arguments	302
	Return Value	
	Examples	303
	Related Commands	
sho	ow	303
	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
sid	_to_escaped_string	
_	Zone Type	
	Syntax	305
	Abbreviation	305
	Options	
	Arguments	
	Return Value	
	Examples	
	Related Commands	
sid	_to_uid	
J. u_	Zone Type	
	Syntax	
	Abbreviation	
	Options	
	Arguments	307

Return Value	307
Examples	307
Related Commands	307
validate_license	307
Zone Type	307
Syntax	307
Abbreviation	307
Options	308
Arguments	308
Return Value	308
Examples	308
Related Commands	308
write_role_assignment	
Zone Type	308
Syntax	308
Abbreviation	308
Options	309
Arguments	309
Return Value	309
Examples	309
Related Commands	309
ADEdit Tcl Procedure Library Reference	309
add_user_to_group	
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
convert_msdate	
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_adgroup	
Syntax	
Options	
·	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_aduser	

Syntax	312
Options	312
Arguments	313
Return value	313
Examples	313
Related Tcl library commands	313
create_assignment	313
Syntax	
Options	314
Arguments	
Return value	
Examples	314
Related Tcl library commands	
create_dz_command	
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_group	
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_nismap	
Syntax	
Options	
Arguments	
Return value	318
Examples	318
Related Tcl library commands	
create_pam_app	
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_role	
Syntax	
Options	319

Arguments	319
Return value	320
Examples	320
Related Tcl library commands	320
create_rs_command	320
Syntax	320
Options	32
Arguments	
Return value	
Examples	32-
Related Tcl library commands	
create_rs_env	322
Syntax	
Options	
Arguments	
Return value	
Examples	
Related Tcl library commands	
create_user	322
Syntax	
Options	
Arguments	
Return value	323
Examples	323
Related Tcl library commands	324
decode_timebox	324
Syntax	324
Options	324
Arguments	324
Return value	324
Examples	325
Related Tcl library commands	325
encode_timebox	325
Syntax	325
Options	325
Arguments	325
Return value	326
Examples	326
Related ade_lib Tcl library commands	
explain_groupType	326
Syntax	326
Options	326
Arguments	
Return value	326

Examples	327
Related Tcl library commands	327
explain_ptype	327
Syntax	327
Options	327
Arguments	327
Return value	327
Examples	328
explain_trustAttributes	328
Syntax	328
Options	328
Arguments	328
Return value	329
Examples	329
Related Tcl library commands	329
explain_trustDirection	329
Syntax	329
Options	329
Arguments	329
Return value	329
Examples	330
Related Tcl library commands	330
explain_userAccountControl	330
Syntax	330
Options	330
Arguments	330
Return value	330
Examples	330
Related Tcl library commands	33
get_all_zone_users	33
Syntax	33
Abbreviation	33
Options	33
Arguments	33
Return value	332
Examples	332
Related Tcl library commands	332
get_effective_groups	
Syntax	332
Options	
Return value	333
Example	
get_effective_users	
Syntax	333

	Options	. 333
	Return value	. 333
	Example	334
get	_user_groups	.334
	Syntax	. 334
	Abbreviation	. 334
	Options	. 334
	Arguments	334
	Return value	. 334
	Examples	. 335
	Related Tcl library commands	.335
get	_user_role_assignments	335
•	Syntax	
	Abbreviation	
	Options	
	Arguments	
	Return value	
	Examples	
	Related Tcl library commands	
list	zones	
	Syntax	
	Options	
	Arguments	
	Return value	
	Examples	
	Related Tcl library commands	
lme	rge	
	Syntax	
	Options	
	Arguments	
	Return value	. 338
	Examples	.338
	·	.339
mo	•	. 339
11100	Syntax	. 339
	•	. 339
	Options Arguments	339
	Arguments	338 340
	Return value	
	Examples Polated Tell library commands	.340
mr-	Related Tcl library commands	.340
pre	create_computer	. 340
	Syntax	. 341
	Options	. 341
	Arguments	343

Return value	343
Examples	343
Related Tcl library commands	343
remove_user_from_group	344
Syntax	344
Options	344
Arguments	344
Return value	344
Examples	344
Related Tcl library commands	344
set_change_pwd_allowed	344
Syntax	345
Options	345
Arguments	345
Return value	345
Examples	345
Related Tcl library commands	345
set_change_pwd_denied	345
Syntax	346
Options	346
Arguments	346
Return value	346
Examples	346
Related Tcl library commands	346
Fimebox Value Format	347
Hex string	347
Hour mapping	347
Byte 0	347
Byte 1	348
Byte 2	348
Day mapping	348
Jsing ADEdit with Classic Zones	350
Enabling Authorization in Classic Zones	350
Working with privileged Commands and PAM Applications	350
Working with Restricted Shell Environments and Commands	
Setting up the restricted shell environment	351
Using restricted commands	351
Creating computer-level role assignments in classic zones	352
Quick reference for commands and library procedures	353

About this Guide

This guide describes ADEdit for UNIX administrators who want to manage Server Suite and Active Directory from a Linux, UNIX, or Mac computer through CLI commands or scripts. It assumes that you are well-versed in Active Directory's architecture and management, and that you're equally well-versed in Server Suite access control and privilege management features. For more complete information about Server Suite software and management tasks, see the *Administrator's Guide for Linux and UNIX*.

This guide describes how to use the Server SuiteADEdit command-line interface to manage Server Suiteobjects stored in Microsoft Active Directory. ADEdit is a Tool command language (Tcl) application that enables administrators to run commands and write scripts that modify data in Active Directory directly from their Linux or UNIX console.

Intended Audience

This guide describes ADEdit for UNIX administrators who want to manage Server Suiteand Active Directory from a Linux or UNIX computer through CLI commands or scripts. It assumes that you are well-versed in Active Directory's architecture and management, and that you're equally well-versed in Server Suiteaccess control and privilege management features. For more complete information about Server Suitesoftware and management tasks, see the *Administrator's Guide for Linux and UNIX*.

Viewing Command Help

ADEdit provides brief help text for each command. To view the help, enter help command_name from the ADEdit command prompt. For example, to see the help for the validate_license command you would enter the following: >help validate_license

You can also display the general help text for ADEdit by entering man adedit from the shell.

Using this Guide

This guide describes how to use ADEdit and provide reference information for all ADEdit commands and the ADEdit library. It does not describe how to write Tcl scripts using ADEdit commands. For a comprehensive explanation of Tcl and its use, see *Tcl* and the *Tk Toolkit* by John K. Ousterhout and Ken Jones (published by Addison-Wesley).

Introduction

Delinea ADEdit is a command-line interface (CLI) utility that enables UNIX administrators to manage Delinea objects—such as zones, rights, and roles—in Microsoft Active Directory. This chapter introduces you to ADEdit's main features and architecture.

How ADEdit uses Tcl

ADEdit is implemented as a Tcl application. Tcl (Tool Command Language) is a powerful but easy to learn programming language that provides full scripting ability. With Tcl, administrators can write simple management scripts that perform complex tasks with a single execution. Experienced Tcl programmers can also include ADEdit

commands in their own Tcl applications to add Delinea management capabilities and GUI interfaces for ADEdit operations to those applications.

Administrators who aren't familiar with Tcl can use ADEdit as a scripting tool on their Linux or UNIX computer to manage Delinea directly from the command line or by combining commands into scripts.

What ADEdit Provides

The purpose of ADEdit is to let an administrator with the proper Active Directory permissions fully manage Delinea objects from a UNIX console. By using ADEdit, for example, an administrator working on a Linux computer can perform common administrative tasks such as create a new user account, add a user to a new group, or assign a user to a new role. That same administrator might also query Active Directory for information about zones, groups, roles, or any other Delinea objects.

Because ADEdit is a more powerful and flexible tool, it is intended to replace some of Delinea's previous-generation UNIX command line programs such as adupdate and adquery. Those previous-generation tools limited the operations administrators could perform to a computer's currently joined zone and domain. With ADEdit, administrators can manage objects in any zone or domain and perform operations on many more features than were possible using its predecessors.

To give administrators additional flexibility for performing administrative tasks, ADEdit also allows for multiple modes of execution and provides its own accompanying library of predefined scripts for common tasks.

Administration Across Domains and Forests

ADEdit offers complete control of Delinea objects and properties from a Linux or UNIX console. Administrators with the proper permissions on the Active Directory domain controller can modify every aspect of operation that the Access Manager offers. For example, administrators can use ADEdit to create zones, add groups, delegate permissions, define roles, and modify user properties, group membership and role assignments.

ADEdit can operate on any domain in any forest. Its host computer does not need to be joined to a domain to work with that domain. As long as the administrator has the necessary authentication and rights to work on a domain, ADEdit can bind to the domain and work on it. ADEdit can also work simultaneously on multiple domains in multiple forests.

ADEdit enables you to manage all aspects of the access control and privilege management features of multiple Delinea software from a single CLI tool. For example, it can replace adupdate and adquery and offers the features of LDAP clients such as Idapsearch, without the limitations of those command line programs.

Options for Execution

ADEdit offers multiple modes of execution:

Interactive mode. In interactive mode, ADEdit executes single CLI commands in real time. You can enter a series of commands within a shell to perform simple administrative tasks. ADEdit offers command history that is persistent from session to session. You can use the up arrow and Enter keys to review and re-enter commands instead of retyping complete commands from scratch.

- Script execution. ADEdit can accept and execute a Tcl script file that includes ADEdit commands. The Tcl scripting language includes full programming logic with variables, logical operators, branching, functions (called procedures in Tcl), and other useful program-flow features. As the script executes, ADEdit keeps the Active Directory objects that it is working on in internal memory. It does not require repeated queries to Active Directory as it works on an object.
- Executable file. You can set up any ADEdit Tcl script as an executable file that can run by itself on a UNIX platform.

Scripting makes ADEdit a very flexible administration tool. You can use a single script to handle hundreds or thousands of repetitive tasks that would take a very long time to perform through the console. And you can write a set of scripts to quickly and easily check on and respond to current conditions. A script could, for example, create a new zone, read etc/passwd files on UNIX computers in that zone, and migrate all existing UNIX users it finds there into new zone user accounts. Another script could find users in specified groups and then assign a new role to all users in those groups.

With that power comes responsibility. It's quite possible for an ADEdit script—or even a single ADEdit command—to completely erase Active Directory's contents if used incorrectly. There are, for the most part, no warnings and there is no undo feature if this happens. Only knowledgeable users should use ADEdit, and it is important to test scripts in sample environments before deploying them to the enterprise.

Library of Predefined Procedures

ADEdit installs with an accompanying library of utility procedures called the ade_lib Tcl library. These procedures use ADEdit commands to perform standard administrative operations such as adding zone users to a zone group or creating a new Active Directory user. The procedures in the library also provide examples of how to use ADEdit commands efficiently in Tcl scripts. From these examples, administrators can learn how to use and adapt ADEdit commands in their own custom scripts.

How ADEdit Works with Other Delinea Components

ADEdit is part Delinea Server Suite and works with specific Windows and UNIX components of the Delinea architecture. As described in the Administrator's Guide for Linux and UNIX, Delinea uses Active Directory, which runs in a Windows network, to stores Delinea-specific data such as zone information. To make computers part of an Active Directory domain, administrators deploy a platform-specific Server Suite Agent. After the agent is deployed and the computer joins an Active Directory domain, the computer is a Delinea-managed computer and ADEdit can define, retrieve, modify, and delete Active Directory and Delinea information for that computer.

Active Directory and ADEdit

Active Directory uses multi-master data storage. It replicates directory data on multiple domain controllers throughout a domain. Changes in data on one domain controller are replicated to the other domain controllers in the domain.

To perform virtually any operation, ADEdit must bind to one or more Active Directory domain controllers. ADEdit can then query Active Directory for data within bound domains, retrieve Active Directory objects, modify retrieved objects, create new objects, and delete existing objects. Those objects include all Delinea-specific objects such as zone objects, zone user objects, role objects, and more.



Note: ADEdit is not limited in scope to Delinea-specific information. An administrator with full privileges could define, retrieve, modify, and delete information for any object or attribute in Active Directory.

Managed Computers and ADEdit

For computers to be managed by Delinea, they must have the Server Suite Agent installed and must be joined to an Active-Directory domain. The Server Suite Agent includes the following components that work directly with ADEdit:

- adclient is a Delinea process running on a managed computer. The adclient process communicates with Active Directory to make its host computer part of the Active Directory domain. Applications that require authentication and authorization or other services then use adclient to query Active Directory for that information. In most cases, ADEdit connects directly to Active Directory without using adclient. However, there are some commands that use adclient to get information more efficiently than from Active Directory directly.
- Delinea command line programs are commands administrators can run on managed computers to control adclient operations and work with the Delinea data stored in Active Directory. ADEdit replaces some of these commands, but occasionally works in conjunction with other commands such as adflush, especially when executing ADEdit commands that work through adclient. For more information about using command line programs, see the Administrator's Guide for Linux and UNIX.

Other Administrative Options

ADEdit is intended to the primary tool for administrators who want to perform administrative tasks directly from a command line or in scripts on Linux, UNIX, and Mac OS X computers. However, there are two other administrative options for performing the same tasks outside of ADEdit:

- The Access Manager console runs on a Windows computer and provides a graphical user interface that you can use for complete control of Delinea-related information and some Active Directory features.
- The **Delinea Server Suite SDK for Windows** provides application programming interfaces (API) that you can use to control all of the same features provided the **Access Manager** console.

It's important to realize when using any of these tools that an instance of one of these tools has no knowledge of other tool instances and acts as if it's the only administrative tool at work. For example, if one administrator uses the Access Manager console to modify a zone object at the same time as another administrator uses ADEdit to modify the same zone object, their changes might clash. For example, if the changes are first saved by the administrative using Access Manager, those change might be overridden by changes saved by ADEdit. The last tool to save object data has the final say.

This is true as well for different instances of ADEdit. If two administrators both use different ADEdit instances simultaneously to work on the same object, the administrator who last saves the object is the only one whose work will have an effect on the object.

It's important when using ADEdit in an environment with multiple administrators to retrieve an object, make changes, and check it back in efficiently to avoid conflicts. ADEdit object changes are not atomic.

It helps to bind all administration tools to the same domain controller within a domain to further minimize conflicts. If tools work on different domain controllers, one tool's changes may take time to replicate to the other domain controllers, so other tools connected to other domain controllers won't be able to see those changes immediately.

ADEdit Components

ADEdit has two components: the ADEdit application and the ade_lib Tcl library. They are both installed when the Server Suite Agent is installed on a Linux, UNIX, or Mac OS X computer to be managed.

A user can access ADEdit through a CLI in a shell or through an executing Tcl script or Tcl application. ADEdit's Tcl interpreter executes the commands it receives from the CLI using the ADEdit commands and Tcl commands that are part of ADEdit. It may also use ade_lib Tcl library commands if specified. Tcl scripts and applications use ADEdit's commands and ade_lib Tcl library commands directly. ADEdit binds to an Active Directory domain controller, with which it exchanges data. ADEdit may also (in a few cases) get data from Active Directory through the adclient process.

The ADEdit Application

ADEdit uses Tcl as its scripting language. Tcl is a long-established extensible scripting language that offers standard programming features and an extension named Tk that creates GUIs simply and quickly. Tcl is described in the authoritative book Tcl and the Tk Toolkit by John K. Ousterhout and Ken Jones (Addison-Wesley, 2010).

ADEdit includes a Tcl interpreter and the Tcl core commands, which allow it to execute standard Tcl scripts. ADEdit also includes a set of its own commands designed to manage Delinea and Active Directory information.

ADEdit will execute individual commands in a CLI (in interactive mode) or sets of commands as an ADEdit script.

The ade_lib Tcl Library

The ade_lib Tcl library is a collection of Tcl procedures that provide helper functions for common Delinea-related management tasks such as listing zone information for a domain or creating an Active Directory user. You can include ade_lib in other ADEdit scripts to use its commands.

To use ade_lib in a Tcl script or in an ADEdit session, begin the script or session with: package require ade_lib

ADEdit Context

When ADEdit commands work on Active Directory objects, they don't specify a domain and the object to work on as part of each command. ADEdit instead maintains a context in memory that defines what commands work on.

ADEdit's context has two types of components:

 A set of one or more bindings that connect ADEdit to domains in the forest. Each binding uses an authentication to connect to an Active

Directory domain controller. The authentication must have enough rights to perform ADEdit's administrative actions on the domain controller. Each binding binds ADEdit to a single domain; multiple bindings bind ADEdit to multiple domains at one time.

A set of zero, one, or more selected Active Directory objects that ADEdit works on. A selected object is typically a Delinea object such as a zone, zone user, role, or NIS map, but can also be any generic Active Directory object. ADEdit stores each selected object with all of its attributes (called fields within ADEdit). ADEdit stores no more than one type of each selected object: one zone object, for example, one PAM application object, one generic Active Directory object, and so on.

An ADEdit session or script typically starts by binding to one or more domains. If ADEdit isn't bound to a domain, none of its commands that work with Active Directory (which is most of them) have any effect. Once bound, ADEdit commands work within the scope of all currently bound domains.

An ADEdit session or script then typically selects an object to work on: it specifies an object such as a zone user object that ADEdit retrieves from Active Directory and stores in memory as part of the context. All subsequent zone user commands then work on the zone user object in memory, not the zone user object as it is stored in Active Directory.

When finished with a selected object, the session or script can simply ignore the object (if nothing has changed in it) or it can save the object back to Active Directory (if the object has been modified and modifications need to go back to Active Directory, overwriting the object there). The selected object remains stored in ADEdit's context until the session or script selects a new object of the same type, which replaces the previous object.

By maintaining a context with selected objects, ADEdit avoids constant Active Directory queries for successive object management commands: A selection command queries Active Directory to retrieve an object. Reading or modifying object fields occurs internally and doesn't require Active Directory queries. If the object is saved, a final Active Directory query returns the modified object to Active Directory.

Context Persistence

ADEdit's context persists for the duration of an ADEdit interactive session. The context in an ADEdit script persists only until the end of the script's execution.

Pushing and Popping Contexts

ADEdit can save and retrieve contexts using push and pop commands that use a stack to store successive levels of context. Pushing and popping contexts is useful within Tcl scripts when jumping to a procedure. The script can push the current context to the stack, create an entirely new context for the procedure, then pop the original context back when exiting the procedure.

Context Cautions

Working with ADEdit's context requires some thought. Commands that affect objects don't explicitly specify an object, so you must be careful to ensure that the correct object is specified before executing commands that affect the object. ADEdit has context reporting commands that help by showing current domain bindings and selected objects.

It's important to realize that any modifications to a selected object have no effect until the object is saved back to Active Directory. If you forget to save an object, you lose all modifications.

If you keep an object in context a long time between selecting the object and saving the object, be aware—as noted earlier—that another administration tool may alter the object in Active Directory during that time and you won't know about those alterations.

Logical Organization for ADEdit Commands

The commands you can execute with ADEdit fall into the following logical categories:

- General-purpose commands that control ADEdit operation and provide information about ADEdit.
 - For example, you use these commands to view usage help, set the LDAP query time-out interval, and quit ADEdit.
- Context commands that set up and control the ADEdit domain context.
 For example, you use these commands to bind to a domain before subsequent object management commands, view current bindings, and change the context.
- Object management commands that enable you to perform all of the same tasks as you can with Active Directory Users and Computers and Access Manager.
 - For example, you use these commands to create, select, and manage zones, users, groups, computers, rights, roles and role Assignments.
- Utility commands that perform useful data retrieval and data conversion tasks.
 - For example, you use these commands to convert domain names and security principal names from one format to another.
- Security descriptor commands that modify security descriptors and make them readable.

For example, you use these commands to convert security descriptors strings from one format to another.

For more information about the commands each category, see ADEdit commands Organized by Type.

For details about specific commands, see ADEdit Command Reference.

Getting Started with ADEdit

This chapter describes ADEdit's basic syntax, shows the typical logic flow used to handle Server Suite objects, and describes in detail the steps in that logic flow using simple examples.

Starting ADEdit for the First Time

The ADEdit application (adedit) and accompanying library of Tcl procedures (ade_1ib) are installed automatically when you install the Server Suite Agent on a UNIX, Linux, or Mac OS X computer. Therefore, both the application

and the library are immediately available on any Server Suite-managed computer. You are not required to join the domain before using ADEdit for the first time.

To start a new interactive ADEdit session, type adedit in a standard shell after logging on to your computer. A new angle bracket (>) prompt indicates that you are in an interactive ADEdit session. For example:

[myprompt] \$ adedit>

Anyone can launch ADEdit. However, only users who have sufficient privileges can modify Active Directory objects and Server Suite-specific data.

Basic Command Syntax

ADEdit includes a Tcl interpreter and uses Tcl syntax. However, ADEdit commands have their own syntax within the Tcl syntax. Like other Tcl commands, ADEdit commands are always completely lowercase. ADEdit does not recognize commands with uppercase characters.

Arguments and Options

An ADEdit command works very much like a UNIX command. Depending on the command, you might be required to specify one or more arguments. An argument is typically a variable that follows the command name to provide data that controls the operation to be performed. In some cases, values for the variables are required for a command to execute. In other cases, variables might be optional. The reference information for individual commands indicates whether arguments are required or optional. In most cases, however, arguments must be entered in the order specified for the command.

In addition to arguments, ADEdit commands may or may not have options. Options must precede a command's arguments. Each option is a single word preceded by a hyphen (-) such as -write. Options can also have their own arguments. If an option takes an argument, it must immediately follow the option.

Options are used to control specific operations of ADEdit commands. For example:

>bind -gc acme.com administrator #3gEgh^&4

In this example, the bind command has an option -gc that specifies a global catalog domain controller. Three arguments follow the option. The first argument is required and specifies the domain to which to bind. The second and third arguments are optional and provide a use name and password to be used for binding.

Command Execution and Results

Like most UNIX commands, ADEdit produces no output or return value if a command executes successfully. Only commands that are defined to return a result produce output when an operation completes successfully. If a command fails, however, ADEdit notifies you of an error in execution and reports the general reason for failure. For example, you might see an error message indicating the wrong number of arguments or a connection problem.

Some commands return results as a Tcl list that other commands in a Tcl script can use. Other commands output results directly to standard output (stdout) where the results are displayed in the shell. You can redirect a command's stdout output to a file or other destination, if desired.

Commands that return Tcl lists start with get followed by an object type (get_zone_users, for example) and return the list of the objects matching the specified object type that are stored in Active Directory. Because other commands can use the Tcl list to act on the returned data, the get commands are especially useful for writing scripts.

Commands that send data to stdout start with list followed by an object type (list_zone_groups, for example) and return the list of the objects matching the specified object type that are stored in Active Directory for the currently selected context. Because the list goes to stdout, the list commands are especially useful for displaying data in interactive sessions as a script executes.

Using Command Abbreviations

Most ADEdit commands have an abbreviation that you can use in place of the full command name. For example, the command list_zone_users has the abbreviation lszu. You can use either the full command name or the abbreviation for any command.

Using the Command History

ADEdit in an interactive session retains a history of previously entered commands. You can visit the command history by pressing the up arrow key to go back in the history and the down arrow key to go forward. Press Enter to run the current command.

ADEdit retains its command history across sessions, so if you quit ADEdit and restart it, you can still visit commands entered in the previous session. The command history has a 50command capacity. Once full, the history drops old commands as you enter new commands.

Using the Help Command

The ADEdit help command provides brief information about ADEdit commands. If you enter help in ADEdit followed by a command or command abbreviation, help returns information about that command, including its syntax.

You can use the wildcard character * to specifying any number of variable characters or ? to specify a single variable character within a command string following the help command. The help command returns help text for all commands that match the wildcard string. For example, the following command returns help for all commands that start with get.

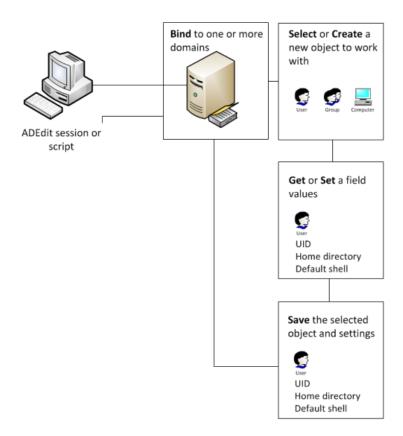
> help get*

Learning to Use ADEdit

You can use ADEdit interactively to run individual commands or to execute scripts directly. You can use ADEdit commands in scripts that you convert into executable files that can be execute outside of ADEdit sessions. Because scripts can automate and simplify many administrative tasks, it is important for you to know how to combine ADEdit commands in the proper sequence to get the results you are looking for.

Before you begin writing scripts that use ADEdit commands, you should be familiar with the most common logical flow for managing Server Suite-specific and Active Directory objects.

The following illustration provides an overview of the logical process.



As illustrated, the typical logic flow in a ADEdit script follows these steps:

1. **Bind** ADEdit to one or more domains within a forest.

The domains to which you bind will define the logical boundaries within which all subsequent commands work.

2. Select an existing Active Directory object or create a new object with which to work.

You can use select commands to retrieve existing object from Active Directory and store them in memory. You can use new commands to create new objects of a specified type and store them in the ADEdit context as the currently selected object.

There are also create commands that create a new objects in Active Directory without putting the object in the ADEdit context. You must explicitly select objects that are created with create commands.

3. Get or set values for a selected object.

After you select an object to work with and it is stored in memory—that is, the object is in the ADEdit context—you can read field values to see their current settings or write field values to change their current state.

4. Save the selected object and any settings you changed.

If you modify an object in memory or you have created a new object in memory, you must save it back to Active Directory for your changes to have any effect.

As these steps suggest, ADEdit is very context-oriented. The bindings you set and the objects you select determine the ADEdit current context. All commands work within that context. If you select a zone, for example, subsequent

commands use the selected zone as the context in which to add new zone users, zone computers, and zone groups.

Outside of scripts that perform the most common administrative tasks, you might use ADEdit commands differently and without following these steps. For example, you might use ADEdit to convert data from one format to another, view help, or get information about the local computer without following the typical logic flow, but those tasks would be exceptions to the general rule.

Binding to a Domain and Domain Controller

ADEdit must bind to one or more domains before any ADEdit commands that affect Active Directory objects will work. When you execute the bind command, you specify the domain to which to bind. You can also specify a user name and password for the bind operation to provide authentication.

The domain can be any domain in the current forest. The ADEdit host computer does not have to be joined to a domain to bind to and work with a domain. A binding command can be as simple as:

>bind acme.com

If you specify a domain with no options, ADEdit automatically finds the domain's closest, fastest domain controller. Options can narrow down the choice of domain controllers. The -write option, for example, specifies that you want ADEdit to choose a writable domain controller. The -gc option specifies that ADEdit use the global catalog (GC) domain controller. You can use both options to choose a writable GC domain controller, for example:

>bind -write -gc acme.com

Alternatively, you can name a specific domain controller as a part of the domain name:

>bind dcserv1@acme.com



Note: Active Directory is a multi-master LDAP system. Changes made at any one domain controller eventually propagate to all other domain controllers in the domain (if they're universal changes). If any administration tools—such as Active Directory Users and Computers, Access Manager, or other instances of ADEdit—bind to the same domain controller, changes made by any one of the tools are immediately available to the other tools without waiting for propagation.

Authentication

If no credentials are provided with a bind command, ADEdit gets its authentication data from the Kerberos credentials cache if one exists. Alternatively, you can provide a user name or both a user name and password. For example:

>bind acme.com administrator {e\$t86&CG}

Notice that the password is enclosed in braces ({}) to ensure that Tcl handles it correctly. Without the braces, Tcl syntax will automatically substitute for some characters such as the \$ used in the password. For example, a dollar sign specifies the contents of a variable in Tcl. Enclosing a string in braces guarantees that Tcl will not try to substitute for any of the characters in the string. Tcl drops the braces when it passes the string on.

You can also use the credentials of the ADEdit's host computer by using the -machine option:

>bind -machine acme.com



Note: Whatever credentials you use, they must be for an account on the Active Directory domain controller with enough authority to read from and make changes to Active Directory objects in the domain. Without the proper authority, ADEdit commands that use Active Directory won't work.

Binding Scope and Persistence

Binding to a single domain allows ADEdit commands to work on Active Directory in that domain. You can bind to multiple domains to allow ADEdit commands to work on more than one domain. To bind to multiple domains, you simply use multiple bind commands, one for each domain.

Once bound to a domain, ADEdit remains bound to that domain until another binding occurs to the same domain (possibly using a different authentication or specifying a different domain controller) or until the current interactive session or executing script ends. Binding might also end if the current context is popped and ADEdit reverts to an earlier context without the binding.

Binding and Join Differences

The ADEdit bind operation is not the same as having the ADEdit host computer join an Active Directory domain. A join is the adclient connection to Active Directory for the host computer. A computer is only allowed to join one domain. A bind is an ADEdit connection to Active Directory, and it can be to more than one domain in the forest. The binding is completely independent of the host computer's joined domain.



Note: A few ADEdit commands that start with joined_* use adclient to retrieve data from Active Directory. Those commands are affected by the host computer's joined domain because they require adclient to be connected to Active Directory and can only get data from the joined domain.

Controlling Binding Operation

You can control the way ADEdit's binding to Active Directory operates. The set_ldap_timeout command sets a time interval for ADEdit's LDAP queries to execute by Active Directory. ADEdit considers a query that doesn't execute by the time-out interval as failed.

Selecting an Object

ADEdit manages Server Suite information by working with the objects in Active Directory. The Server Suite-specific object types are:

- Zones
- Zone users
- Zone computers
- Zone groups
- Roles
- Role assignments
- Privileged UNIX command rights
- PAM application rights
- NIS maps

However, you are not limited to using ADEdit only for managing Server Suite-specific object types. You can also use ADEdit commands to work with generic Active Directory objects, including computers, users, groups, and other classes.

Selection Commands

The ADEdit object select commands have the form select_xxx where xxx is an object type. When you select an object (select_zone, for example), ADEdit looks for the object specified in Active Directory and retrieves it to store the object in the current context.

Each select command is tailored to the type of object it retrieves. As an example, after binding to acme.com, you can use a get_zones command to list the zones in the bound domain, then use a select_zone command to select the zone you want to work with:

```
>get_zones acme.com
{CN=default,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=com}
{CN=cz1,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=com}
{CN=cz2,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=com}
{CN=global,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=com}
>select_zone {CN=global,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=com}
```

As this example illustrates, each zone is list by its distinguished name (DN) and you use the distinguished name to identify the zone you want to use.

Selection as Part of Context

Once an object is selected, it resides in memory (context) with all attendant field values. Further ADEdit commands can examine and modify the object in context.

ADEdit keeps only one selected object of each type in context at a time. If you select or create another object of the same type, the new object replaces the old object in memory without saving the old object to Active Directory. ADEdit can and does keep multiple objects in context, but each object must be a different type.



Note: A currently selected object often affects work on other objects types, especially the currently selected zone. For example, if you select a zone user, you must first select a zone so that ADEdit knows in which zone to look for the zone user. If you don't first select a zone, you can't select and work on various zone objects such as zone users, zone computers, and zone groups. Knowing your context as you work on objects is important.

Persistence

A selected object stays selected until another object of the same type replaces it or until the current interactive session ends or executing script ends. When an ADEdit session ends, all selected objects are removed from ADEdit's memory. In most cases, you must explicitly save changes to objects in memory to ensure the changes are stored in Active Directory.

Creating a New Object

You can use ADEdit new_xxx commands, where xxx is the object type, to create new objects to work on instead of selecting existing objects. When you use new_xxx commands, commands, ADEdit creates an object of the specified type and stores the object as the currently selected object of that type in ADEdit's current context.

In most cases, ADEdit does not provide default values for a new object's fields. If you create a new object, its fields are empty. You can use the ADEdit set_xxx commands to set values for the fields that are specific to each object type.

Here are some notes about creating objects in ADEdit:

- Creating a new zone works differently than all other object types: ADEdit does not create a new zone in memory. ADEdit creates new zones directly in Active Directory and fills in zone fields with default values. After you create a zone, you must then select it to examine and modify it.
- ADEdit cannot create AIX extended attributes in a Microsoft Services for UNIX (SFU) zone (Ref: CS-25392c).
- Some non-alphanumeric characters are valid for Windows user or group names and are converted to underscore ("_") when changed to be UNIX names in the Access Manager, but cannot be used in adedit. (Ref: IN-90001) The following characters cannot be used in adedit: \() +; ", <> =

Examining Objects and Context

The ADEdit context is a combination of current bindings and currently selected objects. You can examine the properties of currently selected objects using ADEdit get_xxx or list_xxx commands, where xxx is an object type. For example, you can use the get_roles or list_roles command to see a list of roles in the current zone.

Getting Field Values for Objects

You can also use get_xxx_field commands to retrieve field values for different types of objects. For example:

```
>select_zone_user adam.avery@acme.com
>get_zone_user_field uname
adam
```

In this example, ADEdit retrieves the value of the field uname—in this case, the UNIX user name field—for the currently selected zone user adam.avery@acme.com.

Getting Current Context Information

You can examine ADEdit's current context at any time using two different commands: the show command and the get bind info command.

The show command returns all bindings and selected objects in the current context. For example:

```
>show
Bindings:
    acme.com: calla.acme.com
Current zone:
    CN=global,CN=Zones,CN=ACME,CN=Program Data,DC=acme,DC=com
Current nss user:
    adam.avery@acme.com:adam:10001:10001:%{u:samaccountname}:%{home}/%{user}:%{shell}:
```

You can use optional arguments to limit the information the show command returns.

The get_bind_info command returns information about a bound domain. When you use this command, you specify the information you want to retrieve, such as the domain's forest, the name of the current domain controller, the domain's security identifier (SID), the functional level of the domain, or the functional level of the domain's forest. For example:

```
>get_bind_info acme.com server
adserve02.acme.com
```

In this case. ADEdit returns the name of the bound server for the domain acme, com.

Modifying or Deleting Selected Objects

Once an object is selected and residing in the ADEdit context, you can modify its fields using the ADEdit set_xxx_ field commands, where xxx is the object type. These commands allow you to specify a field name and a field value. For example:

```
>select_zone_user adam.avery@acme.com
>set_zone_user_field uname buzz
```

This example selects the zone user adam.avery@acme.com and sets the uname field for the zone user-the UNIX user name-to buzz. The field is set to the new value only in memory., however. You must save the object before the new field value is stored in Active Directory and takes effect within the object's domain. For example:

>save_zone_user

Deleting an Object

You can delete a currently selected object using the ADEdit delete_xxx commands, where xxx is the object type. When you delete an object, it is deleted from both memory and Active Directory. For example:

```
>select_zone_user adam.avery@acme.com
>delete_zone_user
```

This example deletes the currently selected zone user, adam.avery@acme.com, from the he ADEdit context so there's no longer a selected zone user. The command also deletes the zone user object associated with the user adam.avery@acme.com so there's no longer a zone user by that name in Active Directory.



Note: There is no undo for a delete command. Once the object is deleted from Active Directory, you must recreate it if you want it back. Be especially careful if you set up an ADEdit script to delete multiple objects.

Saving Selected Objects

Any new or modified object in ADEdit's context has no effect until you save the object back to Active Directory. You do so using a save_xxx command where xxx is the object type. For example:

```
>save_zone
```

This example saves the currently selected zone object back to Active Directory along with any field values that have been modified since the zone was selected.

Saving an object does not deselect the object. It remains the selected object in memory so that you can further read and modify it.

Pushing and Popping Context

There are times when you may want to save ADEdit's current context, change it to a new context to work on different objects in different domains, and then revert back to the original context. This is particularly true when writing Tcl scripts with subroutines, where you may want to feel free to complete a completely new context without altering the context of the calling code.

ADEdit offers a push and a pop command to save and retrieve contexts to a stack maintained in memory. push saves the complete current context—all of its bindings and selected objects—to the stack. Subsequent push commands save more contexts to the top of the stack, pushing the older contexts further down the stack, allowing for nested subroutines.

pop reads the context from the top of the stack and restores it to memory as the current context. pop also removes the restored context from the stack. Subsequent pop commands pop more contexts off the stack until the stack is empty, at which point pop returns an error.

Creating ADEdit Scripts

You can combine ADEdit commands into scripts that perform many common administrative tasks, such as creating new zones, adding users to zones, or pre-creating computer accounts. After you create a script, you can execute it from a shell that calls adedit or convert it to an executable file that can run directly from the command line.

Starting with a Simple Script

If you are new to scripting, Tcl, or both, you might want to experiment first with a few simple commands before trying to develop scripts that perform administrative tasks. The steps in this section are intended to help you get started.

If you are already familiar with scripting languages or with using Tcl, you might want to skip ahead to the discussion of the sample scripts or directly to the command reference.

To write a simple ADEdit script:

- 1. Open a new file—for example, my_adedit_script—in a text editor.
- Type the following line to set up the adedit environment and include the ADedit Tcl library:

```
#!/bin/env adedit
package require ade lib
```

If your version of Linux or UNIX has the env command in a location other than the /bin directory, modify the first line to specify that directory. For example, another common location for the env command is /usr/bin. In this case, you would type:

```
#!/usr/bin/env adedit
```

3. Type an appropriate bind command to identify the Active Directory domain or domains to use.

```
bind pistolas.org maya.garcia {$m113s88}
```

Depending on whether you are going to run this script interactively or as an executable file, you might include or exclude authentication information.

4. Type the appropriate commands to create and select a new zone.

```
create_zone tree "cn=sample,cn=zones,ou=acme,dc=acme,dc=com" std
select_zone "cn=sample,cn=zones,ou=acme,dc=acme,dc=com"
```

5. Type the command to list the current zones to stdout to verify the new zone.

```
list_zones pistolas.org
```

6. Type the command to save the zone and quit.

Getting Started with ADEdit

```
save_zone
quit
```

7. Save the text file and execute it using ADEdit or as an executable file.

After you have tested the basic script, you edit it to create new zones, make a zone a child zone, add new zone computers, groups, or users. for example, you might add lines similar to these:

```
new_zone_user AD_user_UPN
set_zone_user_field field value
save_zone_user
list zone users
```

If your sample script creates and selects a zone successfully, you should delete or rename the zone each time you iterate through the execution.

The following is a sample of what the simple script might look like:

```
#! /bin/env adeditpackage require ade_lib
bind pistolas.org maya.garcia {$m113s88}
create_zone tree "cn=test6,cn=zones,ou=acme,dc=pistolas,dc=org" std
select_zone "cn=test6,cn=zones,ou=acme,dc=pistolas,dc=org"
set_zone_field parent "cn=US-HQ,cn=zones,ou=acme,dc=pistolas,dc=org"
list_zones pistolas.org
save_zone
new_zone_user tim@pistolas.org
set_zone_user_field uname tim
set_zone_user_field did 81000
set_zone_user_field gecos "Tim Jackson, Accounting"
save_zone_user
list_zone_users
quit
```

Executing an ADEdit Script using ADEdit

You can execute ADEdit script by invoking ADEdit on the command line or by making the script an executable file and invoking the script itself directly from the command line.

To execute an ADEdit script by invoking ADEdit on the command line

- 1. Open a shell.
- 2. Type adedit followed by the name of the script

```
For example, if the name of the script is my_adedit_scipt and it is the current working directory, type: adedit my_adedit_script
```

If the script isn't in the current working directory, specify the path to the script and any arguments if the script requires any.

Running an ADEdit Script as an Executable from the Command Line

You can run an ADEdit script without invoking ADEdit first by making the script an executable file.

To run an ADEdit script as a UNIX-executable file

1. Verify the script begins with the following lines:

```
#!/bin/env adedit
package require ade_lib
```

The script reads it as a comment, however UNIX or Linux will use it to find and execute ADEdit and then execute the rest of the script.

2. Use chmod to make the file executable.

```
For example, if the name of the script is my_adedit_scipt and it is the current working directory, type: chmod +x my_adedit_script
```

3. Make sure the file's directory is listed in your PATH environment variable if you want to be able to execute the file from any directory.

Alternatively, modify the script to include the full path to adedit. For example:

```
#!/bin/env /usr/bin/adedit
```

Once set up this way, you can simply enter the script's file name in a shell and have the script execute as a command.

```
/my_adedit_script
```

Running an ADEdit Script as a Shell Script

You can also run the script as a shell script. In this case, the script file would have the .sh suffix and would contain the following lines at the beginning of the file:

```
#!/bin/sh
# \
exec adedit "$0" ${1+"$@"}
package require ade_lib
```

ADEdit Commands Organized By Type

As discussed in *Logical Organization for ADEdit Commands*, there are different types of ADEdit commands that can be organized into logical categories. This chapter provides a brief introduction to the ADEdit commands in each of those logical categories. For detailed information about individual commands, see ADEdit Command Reference.

General Purpose Commands

You can use the following general purpose commands to control overall ADEdit operation or return general information about ADEdit or its host computer.

Command	Description
help	Returns information about a specified ADEdit command or all ADEdit commands.

Command	Description
get_adinfo	Returns information about the joined domain, the joined zone, or the name the local computer is joined under.
quit	Quits ADEdit.
set_ldap_ timeout	Sets the time-out value used by ADEdit's LDAP commands that perform read and write operations on Active Directory through a binding.

Context Commands

You can use the following context commands set the current domain bindings, report on the current bindings and selected object, and save and retrieve the ADEdit context (which includes both bindings and currently selected objects).

Command	Description
bind	Binds to one or more Active Directory domains to define the ADEdit context for subsequent commands.
get_bind_info	Returns information about the domains to which ADEdit is bound.
рор	Restores the context from the top of the ADEdit context stack.
push	Saves the current context to the ADEdit context stack.
show	Displays the current context of ADEdit, including its bound domains and currently selected objects.
validate_ license	Determines whether there is a valid license and stores an indicator in the ADEdit context.

Object Management Commands

You can use object management commands to retrieve, modify, create, and delete Active Directory objects of any kind, including Delinea-specific objects such as zones, rights, and roles. The command set for each object type is similar to the command sets for the other object types.

Zone Object Management Commands

You can use the following zone object management commands to create, select, save, and delete zones and manage zone properties.

Command	Description
create_zone	Creates a new zone in Active Directory.
delegate_zone_ right	Delegates a zone administrative task to a specified user or group.
delete_zone	Deletes the selected zone from Active Directory and memory.
get_child_zones	Returns a Tcl list of child zones, computer roles, or computer-specific zones associated with the current zone.
get_zone_field	Returns the value for a specified field from the currently selected zone.
get_zone_nss_ vars	Returns the NSS substitution variable for the selected zone.
get_zones	Returns a Tcl list of all zones within a specified domain.
save_zone	Saves the selected zone with its current settings to Active Directory.
select_zone	Retrieves a zone from Active Directory and stores it in memory as the currently selected zone.
set_zone_field	Sets the value for a specified field in the currently selected zone.

Zone User Object Management Commands

You can use the following zone user commands to create, select, save, and delete zone user objects and manage user properties in the currently selected zone.

Command	Description
delete_local_ user_profile	Deletes a local user (that is not an Active Directory user) that has a profile defined in the current zone.
delete_zone_ user	Deletes the zone user from Active Directory and from memory.
get_local_ user_profile_ field	Returns the value of a profile field for the currently selected local user (that is not an Active Directory user) that has a profile defined in the current zone.
get_local_ users_profile	Returns a Tcl list of profiles for local users (that are not Active Directory users) that are defined in the currently selected zone.

Command	Description
get_zone_ user_field	Returns the value for a specified field from the currently selected zone user.
get_zone_ users	Returns a Tcl list of the Active Directory names of zone users in the current zone.
list_local_ users_profile	Returns a list of local users (that are not Active Directory users) that have a profile defined in the current zone.
list_zone_ users	Lists all zone users with NSS data for each user in stdout.
new_local_ user_profile	Creates an object for a local user (that is not an Active Directory user) in the currently selected zone.
new_zone_ user	Creates a new zone user and stores it in memory as the currently selected zone user.
save_local_ user_profile	Saves the object for the currently selected local user (that is not an Active Directory user) after you create the local user object or edit profile field values for the local user object.
save_zone_ user	Saves the selected zone user with its current settings to Active Directory.
select_local_ user_profile	Selects a local user (that is not an Active Directory user) object for viewing or editing.
select_zone_ user	Retrieves a zone user from Active Directory and stores it in memory as the selected zone user.
set_local_ user_profile_ field	Sets the value of a field for the currently selected local user (that is not an Active Directory user) that has a profile defined in the current zone.
set_zone_ user_field	Sets the value for a specified field in the currently selected zone user.

Zone Group Object Management Commands

You can use the following zone group commands to create, select, save, and delete zone group objects and manage group properties in the currently selected zone.

Command	Description
delete_local_ group_profile	Deletes a local group (that is not an Active Directory group) that has a profile defined in the current zone.
delete_zone_ group	Deletes the zone group from Active Directory and from memory.
get_local_ group_ profile_field	Returns the value of a profile field for the currently selected local group (that is not an Active Directory group) that has a profile defined in the current zone.
get_local_ groups_ profile	Returns a Tcl list of profiles for local groups (that are not Active Directory groups) that are defined in the currently selected zone.
get_zone_ group_field	Returns the value for a specified field from the currently selected zone group.
get_zone_ groups	Return a Tcl list of Active Directory names of all zone groups in the current zone.
list_local_ groups_ profile	Returns a list of local groups (that are not Active Directory groups) that have a profile defined in the current zone.
list_zone_ groups	Lists all zone groups with object data for each group in stdout.
new_local_ group_profile	Creates an object for a local group (that is not an Active Directory group) in the currently selected zone.
new_zone_ group	Creates a new zone group and stores it in memory as the currently selected zone group.
save_local_ group_profile	Saves the object for the currently selected local group (that is not an Active Directory group) after you create the local group object or edit profile field values for the local group object.
save_zone_ group	Saves the selected zone group with its current settings to Active Directory.
select_local_ group_profile	Selects a local group (that is not an Active Directory group) object for viewing or editing.
select_zone_ group	Retrieves a zone group from Active Directory and stores it in memory as the selected zone group.

Command	Description
set_local_ group_ profile_field	Sets the value of a field for the currently selected local group (that is not an Active Directory group) that has a profile defined in the current zone.
set_zone_ group_field	Sets the value for a specified field in the currently selected zone group.

Zone Computer Object Management Commands

You can use the following zone computer commands to create, select, save, and delete zone group objects and manage computer properties in the currently selected zone.

Command	Description
delete_zone_ computer	Deletes the zone computer from Active Directory and from memory.
get_zone_computer_ field	Returns the value for a specified field from the currently selected zone computer.
get_zone_computers	Returns a Tcl list of Active Directory names of all zone computers in the current zone.
list_zone_computers	Lists all zone computers along with object data for each computer in stdout.
new_zone_computer	Creates a new zone computer and stores it in memory as the currently selected zone computer.
save_zone_ computer	Saves the selected zone computer with its current settings to Active Directory.
select_zone_ computer	Retrieves a zone computer from Active Directory and stores it in memory as the selected zone computer.
set_zone_computer_ field	Sets the value for a specified field in the currently selected zone computer.

Computer Role Object Management Commands

You can use the following computer role commands to create, select, save, and delete computer role objects and manage computer role properties in the currently selected zone.

Command	Description
create_ computer_role	Creates a new computer role in Active Directory.
delete_zone	Deletes the selected computer role from Active Directory and memory.
get_role_ assignments	Returns a Tcl list of user role assignments associated with the selected computer role.
get_zone_field	Retrieves the computer group associated with the computer role.
list_role_ assignments	Lists user role assignments associated with the selected computer role.
new_role_ assignment	Creates a new role assignment and associates it with the selected computer role.
save_zone	Saves the selected computer role with its current settings to Active Directory.
select_zone	Retrieves a computer role from Active Directory and stores it in memory as the selected zone for subsequent commands.
set_zone_field	Sets the computer group which is associated with the computer role.

Role Object Management Commands

You can use the following role object commands to create, select, save, and delete role objects and manage role properties in the currently selected zone.

Command	Description
add_command_to_role	Adds a privileged command to the currently selected role.
add_pamapp_to_role	Adds a PAM application right to the currently selected role.
delete_role	Deletes the selected role from Active Directory and from memory.
get_role_apps	Returns a Tcl list of the PAM applications associated with the currently selected role.
get_role_commands	Returns a Tcl list of the privileged commands associated with the currently selected role.
get_role_field	Returns the value for a specified field from the currently selected role.
get_roles	Returns a Tcl list of roles in the current zone.

Command	Description
list_role_rights	List all privileged commands and PAM applications associated with the currently selected role in stdout.
list_roles	Lists all roles in the currently selected zone along with object data for each role in stdout.
new_role	Creates a new role and stores it in memory as the currently selected role.
remove_command_ from_role	Removes a privileged command from the currently selected role.
remove_pamapp_from_ role	Removes a PAM application from the currently selected role.
save_role	Saves the selected role with its current settings to Active Directory.
select_role	Retrieves a role from Active Directory and stores it in memory as the selected role.
set_role_field	Sets the value for a specified field in the currently selected role.

Role Assignment Object Management Commands

You can use the following role assignment object commands to create, select, save, and delete role assignment objects and manage role assignment properties in the currently selected zone.

Command	Description
delete_role_ assignment	Deletes the selected role assignment from Active Directory and from memory.
get_role_ assignment_field	Returns the value for a specified field from the currently selected role assignment.
get_role_ assignments	Returns a Tcl list of role assignments in the current zone.
list_role_ assignments	Lists all role assignments along with object data for each role assignment in stdout.
new_role_ assignment	Creates a new role assignment and stores it in memory as the currently selected role assignment.
save_role_ assignment	Saves the selected role assignment with its current settings to Active Directory.

Command	Description
select_role_ assignment	Retrieves a role assignment from Active Directory and stores it in memory as the selected role assignment.
set_role_ assignment_field	Sets the value for a specified field in the currently selected role assignment.

PAM Application Object Management Commands

You can use the following PAM application commands to create, select, save, and delete PAM application objects and manage PAM application properties in the currently selected zone.

Command	Description
delete_pam_ app	Deletes the selected PAM application from Active Directory and from memory.
get_pam_ apps	Returns a Tcl list of PAM applications in the current zone.
get_pam_field	Returns the value for a specified field from the currently selected PAM application.
list_pam_apps	List all PAM applications along with object data for each PAM application in stdout.
new_pam_app	Creates a new PAM application and stores it in memory as the currently selected PAM application.
save_pam_ app	Saves the selected PAM application with its current settings to Active Directory.
select_pam_ app	Retrieves a PAM application from Active Directory and stores it in memory as the selected PAM application.
set_pam_field	Sets the value for a specified field in the currently selected PAM application.

Command (dz) Object Management Commands

You can use the following privileged authorization commands to create, select, save, and delete privileged UNIX command and manage command properties in the currently selected zone.

Command	Description
delete_dz_ command	Deletes the selected command from Active Directory and from memory.

Command	Description
get_dz_ commands	Return a Tcl list of commands in the current zone.
get_dzc_field	Returns the value for a specified field from the currently selected command.
list_dz_ commands	List all privileged commands along with object data for each command in stdout.
new_dz_ command	Creates a new command and stores it in memory as the currently selected command.
save_dz_ command	Saves the selected command with its current settings to Active Directory.
select_dz_ command	Retrieve a privileged command from Active Directory and stores it in memory as the selected command.
set_dzc_field	Sets the value for a specified field in the currently selected command.

NIS Map Object Management Commands

You can use the following NIS map commands to create, select, save, and delete NIS maps and manage NIS map entries and properties in the currently selected zone.

Command	Description
add_map_entry	Adds an entry to the currently selected NIS map.
add_map_entry_with_ comment	Adds an entry with comments to the currently selected NIS map.
delete_map_entry	Removes an entry from the currently selected NIS map.
delete_nis_map	Deletes the selected NIS map from Active Directory and from memory.
get_nis_map	Returns a Tcl list of the entries in the currently selected NIS map.
get_nis_map_field	Returns the value for a specified field from the currently selected NIS map.
get_nis_map_with_ comment	Returns a Tcl list of the entries with their comments in the currently selected NIS map.
get_nis_maps	Returns a Tcl list of NIS maps in the current zone.
list_nis_map	Lists the NIS map entries from the currently selected NIS map in stdout.

Command	Description	
list_nis_map_with_ comment	Lists the NIS map entries and comments from the currently selected NIS map in stdout.	
list_nis_maps	List all NIS maps in the currently selected zone in stdout.	
new_nis_map	Creates a new NIS map and stores it in memory as the currently selected NIS map.	
save_nis_map	Saves the selected NIS map with its current entries to Active Directory.	
select_nis_map	Retrieves a NIS map from Active Directory and stores it in memory as the selected NIS map.	

Active Directory Object Management Commands

You can use the following Active Directory commands to create, select, save, and delete NIS maps and manage NIS map entries and properties in the currently selected zone.

Command	Description
add_object_ value	Adds a value to a multi-valued field attribute of the currently selected Active Directory object.
delete_object	Deletes the selected Active Directory object from Active Directory and from memory.
delete_sub_tree	Deletes an Active Directory object and all of its children.
get_object_field	Returns the value for a specified field from the currently selected Active Directory object.
get_object_field_ names	Returns a Tcl list of the field names for each of the fields attributes associated the currently selected Active Directory object.
get_objects	Performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of matching objects.
new_object	Creates a new Active Directory object and stores it in memory as the currently selected Active Directory object.
remove_object_ value	Removes a value from a multi-valued field attribute of the currently selected Active Directory object.
save_object	Saves the selected Active Directory object with its current settings to Active Directory.
select_object	Retrieves an object with its attributes from Active Directory and stores it in memory as the selected Active Directory object.
set_object_field	Sets the value for a specified field in the currently selected Active Directory object.

Utility Commands

You can use the following utility commands retrieve and convert data from format to format, manipulate distinguished names, and manage group membership and user passwords.

Command	Description		
dn_from_domain	Converts a domain's dotted name to a distinguished name (DN) format.		
dn_to_principal	Searches Active Directory for a DN and, if found, returns the corresponding UPN.		
domain_from_dn	Converts a domain's distinguished name (DN) to a dotted name format.		
get_group_ members	Returns a Tcl list of members in a group.		
get_parent_dn	Returns the parent of an LDAP path (a distinguished name): it removes the first element of the DN and returns the rest.		
get_pwnam	Searches the etc/passwd file for a UNIX user name and, if found, returns a Tcl list of the passwd profile values associated with the user.		
get_rdn	Returns the relative DN of an LDAP path: it returns only the first element of the supplied DN.		
get_schema_guid	finds a class or attribute in Active Directory and returns its globally unique identifier (GUID)		
getent_passwd	Returns a Tcl list of all entries in the local /etc/passwd file.		
joined_get_user_ membership	Uses adclient to query Active Directory and returns a Tcl list of groups that a user belongs to.		
joined_name_to_ principal	Uses adclient to search for a UNIX name and return the security principal associated with that UNIX name.		
joined_user_in_ group	Uses adclient to check Active Directory to see if a user is in a group.		
move_object	Moves the selected object to the specified location.		
principal_from_sid	Searches Active Directory for an SID and returns the security principal associated with the SID.		
principal_to_dn	Searches Active Directory for a user principal name (UPN) and, if found, returns the corresponding DN.		
rename_object	Renames the selected object.		

Command	Description
set_user_ password	Sets an Active Directory user's password.
sid_to_escaped_ string	Converts an Active Directory security identifier (SID) to an escaped string.
sid_to_uid	Converts an Active Directory SID to a user ID (UID).

Security Descriptor Commands

You can use the following security descriptor commands modify SDs and make them readable by humans.

Command	Description
add_sd_ace	Adds an access control entry to a security descriptor.
explain_sd	Converts a security description in SDDL format to a human-readable form.
remove_sd_ace	Removes an access control entry (ACE) from a security descriptor.
set_sd_owner	Sets the owner of a security descriptor.

Using the Demonstration Scripts

This chapter describes the ADEdit sample scripts provided in the package. The scripts are listed in the following table. The corresponding source files are in the /usr/share/centrifydc/samples/adedit directory. The source file name is shown in the table and each script header.

You have a couple of different ways to invoke scripts from the command line (see Creating ADEdit scripts under Getting Started with ADEdit). The sample scripts demonstrate two of them.

Section Heading	Purpose	Source File Name
Reading command line input	These scripts illustrate two different methods for using the Tcl argv, argc, and argv0 variables.	MktDept.sh getopt- example
Create a parent zone	This script illustrates how to create a Delinea parent zone.	CreateParentZone
Create child zones	This script illustrates how to create two child zones in a parent zone.	CreateChildZones

Section Heading	Purpose	Source File Name
Create privileged commands and roles	These scripts illustrate how to create new privileged commands and new roles that include those commands.	MakeRole ApacheAdminRole
Add and provision UNIX users	This script and input file illustrate how to add users to Active Directory and copy them to the Active Directory UNIX Users group. If you have the Zone Provision Agent configured and running, you can use this script or one similar to it to automatically provision user profiles when users are added to Active Directory.	AddUnixUsers users.txt
Simple tools	These scripts demonstrate how you can list the computers in a zone, extract field attributes from user objects, and list the users in a zone.	computers-report useracc-report user-report GetComputers
Run a script from a script	These scripts illustrate how you can call a script (setenv) from within another script to perform different queries based on the values entered.	setenv GetChildZones GetGroups GetUsers GetZones

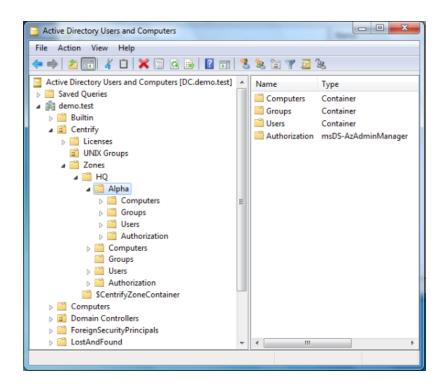
Zone Containers and Nodes

Many ADEdit commands require you to specify the zone container. This container is the root container used by Delineato store the zone information for the users, groups, computers and child zones. This container can have any name and can be anywhere in Active Directory. This container can also be an organizational unit.

Before you proceed, you need to know the location of the zone containers in Active Directory and the distinguished names you use to specify the zone container and its objects.

This section illustrates some sample cases with different locations for the zone container and the distinguished name for commonly used variables in the scripts.

In this example, the installer defined a base organizational unit called Delinea. This architecture is often used because it puts all the UNIX-related information in a single branch. The container with the zone information is called zones.



In addition to the zones container location, the installation script requires the installer to specify a location for a container to store the Delinea software licenses. In this figure, the node—Licenses—is in the base organizational unit. However, it does not need to be there.

In this figure, the installer also created another organizational unit called UNIX Groups for the Active Directory groups used for the UNIX users. Keeping all of the groups recreated for the UNIX users in a single node simplifies managing them and the privileges assigned to each user. (With few exceptions, the UNIX users get their rights from the role assigned to the group in which they are a member.) Often, more organizational units are created for managing different classes of UNIX user and UNIX services.

There are two zones in this figure: the parent zone HQ and a child zone named Alpha. Each zone contains nodes labeled Computers, Groups, Users, and Authorization. When you specify a zone, computer, user, or group in an ADEdit command you must use the distinguished name. The following table illustrates the distinguished names.

Object type	Example	Example distinguished name
Domain	demo.test	dc=demo,dc=test
Base organizational unit	Delinea	ou=Acme,dc=demo,dc=test
Zone container	Zones	cn=Zones,ou=Acme,dc=demo,dc=test
Parent zone	HQ	cn=HQ,cn=Zones,ou=Centrity,dc=demo,dc=test

Object type	Example	Example distinguished name
Child zone	Alpha	<pre>cn=Alpha,cn=HQ,cn=Zones,ou=Centrity,dc=demo,dc=test</pre>
Organization al unit	UNIX Groups	"ou=UNIX Groups,ou=Acme,dc=demo,dc=test"
UNIX group	ApacheAdmin s	"cn=ApacheAdmin,ou=UNIX Groups,ou=Acme,dc=demo, dc=test"
Computer in Alpha zone	RHEL	$\label{eq:cn=RHEL} cn=Computers, cn=Alpha, cn=HQ, cn=Zones, ou=Centrity, dc=demo, dc=test$

You should note that distinguished names can contain space, as illustrated by the UNIX Groups organizational unit. To prevent Tcl from interpreting a space as new element in a list, you can enclose the distinguished name with double quotes ("") or using braces ({ }). When specifying distinguished names, you should also be sure to use ou and cn correctly. Commands will fail if you refer to an organizational unit using cn.

Create Tcl Procedures

The following example demonstrates how to create procedures using the Tcl proc command. These two procedures create a new Active Directory user and Active Directory group, respectively, but first check to see if that object already exists in Active Directory.

This example uses the Tcl catch and if commands to determine if the account already exists. catch takes a Tcl script (in this case, the select_object command) and returns a 1 if an error (in this case, the account does NOT exist) occurs. Inside the if command, a non-zero result of the expression causes the body commands (puts and create_aduser or create_adgroup) to be executed. Otherwise, if select_object is successful (the account exists) it does not create the new account.



Note: See the AddUnixUsers script for a similar example that uses the catch and if commands to determine whether a user exists.

Create Active Directory Group Procedure

```
# The following procedure creates an Active Directory group if a
# group with the same distinguished name does not already exist.
proc my_create_adgroup {dn sam gtype} {
        if { [catch {select_object \$dn}] } {
        # If we fail to select the object, the group
        # does not exist. So we create it here.
        puts "Creating \$dn"
        create_adgroup \$dn \$sam \$gtype
    } else {
        puts "\$dn exists. Do not create."
    }
}
```

Create Active Directory User Procedure

```
# The following procedure creates an Active Directory user if an # account with the same distinguished name does not already exist.
```

```
proc my_create_aduser {dn upn sam pw} {
        if { [catch {select_object \$dn}] } {
        # If we fail to select the object, the account
        # does not exist. So we create it here.
        puts "Creating \$dn"
        create_aduser \$dn \$upn \$sam \$pwd
    } else {
        puts "\$dn exists. Do not create."
    }
}
```

Reading Command Line Input

In general, Tcl reads the arguments following the script name as a list and creates the following three variables:

- argv: a Tcl list containing all of the arguments in the command line
- argc: a count of the number of arguments in the lists
- argv0: the script name.

For example, the following script uses all three variables. This is a simple command in the form

>/bin/sh MktDept.sh name name

where *name* is a person's name, such as Mary or Joe. If you want to use first and last name, surround the name with quotes, for example "Jane Smith".



Note: This code sample demonstrates starting ADEdit from a shell script. The subsequent examples use the executable file model.

MktDept.sh

```
#!/bin/sh
# This script takes a list of names and displays it
#
# \
exec adedit "$0" ${1+"$@"}
package require ade_lib
if { $argc == 0 } {
    puts "Command format: $argv0 name name ..."
    exit 1
}
set total $argc
puts "
The following people are in the marketing department"
while {$total > 0} {
    incr total -1
    puts "[lindex $argv $total]"
}
```

The first if statement uses the count, argc, to determine if any arguments have been entered. If the argc value is equal to zero, the user did not enter any names and the script displays the command format message. The argc counter is used again to set the total count of names entered for the while loop. Inside the loop, the names are drawn from the argv list.

Another useful command for parsing command line options is getopt. This command derives from, but is different than, the Tcl getopt command. The ADEdit getopt command has the following syntax:

```
getopt _argv name ?-var?
where:
```

- _argv is the Tcl list that contains the command line arguments.
- name is a label for the associated data.
- ?_var? is the variable name for the data.

For example, the following script illustrates the use of getopt to define the user and group variables that will be used later in the script.

This script also demonstrates how to use a procedure, usage, that prompts the user when she doesn't enter all of the arguments. usage first displays the full command syntax and then the missing argument.



Note: The user and password arguments are optional. If the user enters a user name without the password, the bind program automatically prompts for the password. You do not need to include that prompt in the script.

getopt-example

```
#!/bin/env adedit
# This script takes a domain name and optionally user name and password
# and binds the user to the specified domain.
# If the user does not specify a user name or password, she is prompted.
package require ade_lib
proc usage {msg} {
             puts {usage: -d <domain> [-u <user>] [-p <password>]}
             puts $msq
             exit 1
if {[getopt argv -d domain] == 0} {
             usage "Missing Domain, ex. centrify.demo"
if {[getopt argv -u user] != 0} {
      if {[getopt argv -p password]} {
             bind $domain $user $password
      } else {
        bind $domain $user}
             } else {
    puts "Enter administrator name:"
             gets stdin user
             bind $domain $user
}
puts "
Binding complete to $domain."
```

Create a Parent Zone

This sample script illustrates how you can create a parent zone. This script uses the puts command to display information and to prompt the user to specify variables that will be used to create the parent zone object. The command line syntax is as follows:

```
>./CreateParentZone - z parentZone -u adminName [-p password]
where:
```

- parentZone is the name of the parent zone you want to create.
- adminName is the name of an Active Directory user with administrator privileges on the domain controller.
- password is the administrator's password. If you do not enter the password in the command line, you are prompted to enter it.

Note that this sample script assumes you are using the default deployment structure with the top-level organizational unit. If you are not using the default deployment structure, you should modify the sample script to reflect the structure you are using before testing its operation.

CreateParentZone

```
#!bin/env adedit
# This script creates a tree zone. Use this, for example, to create the
# parent zone for child zones created in other scripts.
package require ade_lib
proc usage {msg} {
        puts {usage: -z >parentZone> -u >user>}
        puts $msg
        exit 1
if {[getopt argv -z parentZone] == 0} {
        usage "Missing the name for the new zone"
}
puts "
Enter the domain name for the bind command"
gets stdin domain
if {[getopt argv -u user] != 0} {
        if {[getopt argv -p password]} {
                bind $domain $user $password
                } else {
                bind $domain $user}
        } else {
        puts "Enter administrator name"
        gets stdin user
        bind $domain $user
}
set domaindn [dn_from_domain $domain]
puts '
Enter the name of the Active Directory container that holds the Delineazone data"
gets stdin zonesNode
puts '
Enter the organizational unit with the Delineazone data container"
gets stdin baseOU
puts "Summary:'
puts "Domain is $domain. DN for the domain is $domaindn"
puts "The base OU is $baseOU."
puts "The container for the zone information is $zonesNode"
puts "The new zone is named $parentZone"
# create the parent zone in Active Directory
puts "
Creating Delineazone $parentZone"
create_zone tree "cn=$parentZone,cn=$zonesNode,ou=$baseOU,$domaindn" std
puts "Created new zone: cn=$parentZone,cn=$zonesNode,ou=$baseOU,$domaindn"
```

Create Child Zones

This script creates two child zones in the domain and parent zone specified in the command line. The command line syntax is as follows:

>./CreateChildZones -d domain -z parentZone [-u adminName] [-p password]
where:

- domain is the domain name
- parentzone is the name of an existing zone
- adminName is the name of an Active Directory user with administrator privileges on the domain controller
- password is the administrator's password. If you do not enter the password in the command line, your are prompted for it

The *password is optional. If you do not type it in the command line, the script prompts you to enter it.

The script binds to the domain you specify using the user name and password you provide. The script then prompts you to enter the name of the organizational unit and container in which you store the zone information. After that, it prompts you to enter names for the two child zones. Note that this sample script assumes you are using the default deployment structure with the top-level organizational unit. If you are not using the default deployment structure, you should modify the sample script to reflect the structure you are using before testing its operation.

To confirm the script ran successfully, open Access Manager and expand the **Child Zones** node under the parent zone you specified in the command line. If the two new child zones are listed, you can right-click each zone name to see its zone properties.

CreateChildZones

```
#!/bin/env adedit
# This script creates 2 child zones in the domain and parent zone
# specified in the command line.
package require ade_lib
proc usage {msg} {
        puts {usage: -d <domain> -z <parentZone> [-u <user>] [-p <password>]}
puts $msg
        exit 1
if {[getopt argv -d domain] == 0} {
        usage "Missing Domain, ex. demo.test"
if {[getopt argv -z parentZone] == 0} {
        usage "Missing parent zone, ex. HQ"
if {[getopt argv -u user] != 0} {
        if {[getopt argv -p password]} {
                bind $domain $user $password
                } else {
        bind $domain $user}
        } else {
puts "Enter administrator name"
        gets stdin user
        bind $domain $user
}
```

```
puts "
Enter the name of the container for the Delineazone data"
gets stdin zoneContainer
Enter the organizational unit for the Delineazone data"
gets stdin zoneContainerOU
# Define distinguished name for domain
set domaindn [dn_from_domain $domain]
Summary:"
     "Domain is $domain. DN for the domain is $domaindn"
puts
     "The base OU is $zoneContainerOU."
puts "The container for the zone information is $zoneContainer
# Create child zones
puts "Enter child zone name"
gets stdin czone1
puts "
Enter another child zone name"
gets stdin czone2
create_zone tree "cn=$czone1,cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
create_zone tree "cn=$czone2,cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
std
# link the children to parent
select_zone "cn=$czone1,cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
set_zone_field parent "cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
save zone
select_zone "cn=$czone2,cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
set_zone_field parent "cn=$parentZone,cn=$zoneContainer,ou=$zoneContainerOU,$domaindn"
save zone
nuts "
Child zones $czone1 and $czone2 created in $parentZone"
```

Create Privileged Commands and Roles

Users get the rights necessary to run privileged commands and access applications from their role assignments. The predefined UNIX Login role gives users basic access to UNIX computers without any elevated privileges. The scripts in this section illustrate how you can create roles with additional rights. The first sample script uses a separate text file to define a new role and the commands users in that role are allowed to execute. The second sample script illustrates how to define the commands and the role within the script after prompting for bind credentials and the target zone.

Both scripts create the same commands and role.

Privileges and Role Defined in a File

For the first sample script, a single role and its privileged commands are defined in the file Role_apacheAdmin.txt. This sample text file defines the role name and a few sample commands that you might assign to an Apache server administrator. For example:

```
ApacheAdminRole
vi /etc/httpd/conf/httpd.conf
apachectl *
htpasswd *
```

The first line in the Role_apacheAdmin.txt file specifies the new role name. The subsequent lines specify the commands to add to the role. You can edit the text file to suit your environment. For example, you might want add or remove commands or modify the path to the Apache configuration file. To create the role and commands, you can then run the MakeRole sample script and specify the Role_apacheAdmin.txt file name as a command line argument. The MakeRole sample script then prompts you to enter the domain name, account, and password for the bind command and to type the name of the parent zone where the sample role will be created.

Note that you must specify a parent zone for this sample script. The second sample ApacheAdminRole script, shown in the **Privileges and Roles Defined in the Script** section below, displays the list of zones in the domain to illustrate how you can create a role in a child zone. In addition, this sample script assumes you are using the default deployment structure with the top-level organizational unit. If you are not using the default deployment structure, you should modify the sample script to reflect the structure you are using before testing its operation.

MakeRole

The MakeRole sample script creates a role with the set of privileged commands defined in the sample Role_apacheAdmin.txt file.

```
#!/bin/env adedit
# This script creates a role consisting of a
# set of privileged commands
# The role name and commands are specified
# in a separate file.
# The first line in the input file should be
# the new role name.
# The subsequent lines are the names of the
# privileged commands to
# add to the role.
# For example:
     audit_admin_cmds
      /usr/bin/vi /etc/security/audit/config
     /usr/bin/vi /etc/security/audit/objects
package require ade_lib
if { $argc != 1 } {
    puts "usage: $argv0 file"
    exit 1
if {[catch {set fp [open [lindex $argv 0] r]} errmsg]}
    puts "Cannot open [lindex $argv 0]."
    exit 1
# Get domain and bind
puts "Enter domain name"
gets stdin domain
set domaindn [dn_from_domain $domain]
puts "Enter account name with administrator privileges"
gets stdin administrator
puts "Enter $administrator password"
gets stdin APWD
bind $domain $administrator "$APWD"
# Select the target zone and base organizational unit
puts "Enter the target zone name for the new role"
gets stdin zonename
puts "
Enter the name of the Active Directory container that holds the Delineazone data"
```

```
gets stdin zonesNode
Enter the organizational unit with the Delineazone data container"
gets stdin baseOU
select_zone "cn=$zonename,cn=$zonesNode,ou=$baseOU,$domaindn"
if {[gets $fp line] == -1} {
              puts "Cannot read [lindex $argv 0]."
              exit 1
# Create role
puts "Creating role...$line"
set role $line
new_role "$role"
save_role "$role"
set count 0
while {[gets $fp line] >= 0} {
  incr count
# Create command. Each command will be named
# based on the role defined in the first line
# and the command's line number in the file
  set cmd_name $role$count
  new_dz_command "$cmd_name"
  # set the command fields
  set cmd_path $1ine
  set_dzc_field cmd "$cmd_path"
  set_dzc_field dzdo_runas root
  set_dzc_field umask 077
   # prevent nested execution
  set_dzc_field flags 1
   # save the command
  save_dz_command
  # Add the command to the Role
  add_command_to_role "$cmd_name"
close $fp
save_role "$role"
```

Privileges and Roles Defined in the Script

In this sample script, you create the same Apache administrator commands and role as the previous script. However, this script displays a list of the zones in the domain and lets you select in which zone to create the commands and role.

ApacheAdminRole

```
#!/bin/env adedit
puts "This script creates privileged commands and the ApacheAdminRole in the zone entered"
package require ade_lib
puts "
Enter the domain name"
gets stdin domain
puts "
Enter the account name to use to modify Active Directory"
gets stdin acctName
bind $domain $acctName
bind $domain $acctName
set domaindn [dn_from_domain $domain]
set zonelist [get_zones $domain]
set numberZones [llength $zonelist]
```

```
set row 1
set zonenum 0
This domain contains the following zones"
while {\$numberzones != 0} {
              puts "$row. [lindex $zonelist $zonenum]"
              incr zonenum
              incr row
              incr numberZones -1
}
puts "
Enter the row number of the target zone"
gets stdin rowSelect
set zone [lindex $zonelist [incr rowSelect -1]]
select_zone "$zone"
puts "
Creating command-level Apache admin rights in $zone"
puts "
Creating web_edit_httpd_config"
new_dz_command web_edit_httpd_config
set_dzc_field cmd "vi /etc/httpd/conf/httpd.conf"
set_dzc_field description "edit httpd config file"
set_dzc_field dzdo_runas root
set_dzc_field dzsh_runas root
set_dzc_field path /usr/local/apache2/bin
set_dzc_field flags 1
save_dz_command
puts "
Creating web_apachectl"
new_dz_command web_apachect1
set_dzc_field cmd "apachectl *"
set_dzc_field description "Web Apache Server Control"
set_dzc_field dzdo_runas root
set_dzc_field dzsh_runas root
set_dzc_field path /usr/local/apache2/bin
save_dz_command
puts "
Creating web_htpasswd"
new_dz_command web_htpasswd
set_dzc_field cmd "htpasswd *"
set_dzc_field description "Web Apache Manage user files"
set_dzc_field dzdo_runas root
set_dzc_field dzsh_runas root
set_dzc_field path /usr/local/apache2/bin
save_dz_command
# Create ApachedAdminRights role
# The new_role command creates the role in the currently selected zone.
Creating the ApacheAdminRole with these rights"
# In each role you need to set the sysrights with the set_role_field
# to the following binary values
# password_login = 01
\# sso = 02
# ignore_disabled = 04
# full_shell = 08
new_role ApacheAdminRights
add_command_to_role web_edit_httpd_config
add_command_to_role web_apachectl
```

```
add_command_to_role web_htpasswd
set_role_field sysrights [expr 0x0000000b] #full_shell | sso | password_login
save_role
save_zone
```

Add and Provision UNIX Users

It is difficult to provision a lot of UNIX users and ensure that the UID is unique in the domain. To assist you with the process, Delinea provides a set of features called the Zone Provisioning Agent. The Zone Provisioning Agent includes a service that automatically assigns a unique UID and other UNIX profile attributes, such as the home directory, default shell, and primary GID, based on rules you define.

This script demonstrates how you could use the Zone Provisioning Agent to add and provision users. For this sample script, the list of UNIX users is defined in the source file named users.txt and the Active Directory source group is Unix Users.

Note:To learn more about the Zone Provisioning Agent and automated provisioning, see the *Planning and Deployment Guide*.

users.txt

You specify the names to be added in a text file in which each name is on a separate line. Be sure to use line feed only as the end-of-line; do not use CR-LF. The sample file in the distribution package contains the following names:

Amy.Adams Brenda.Butler Dennis.Day Eric.Edwards

AddUnixUsers

In the following script, you specify the file name with the user names in the command line. The script then prompts you for the additional information required. The target Active Directory group—Unix Users—is hard-coded into the script.

This script uses the Tcl catch command three times to control processing when an error occurs.

- In the first case, it is used to exit gracefully if the specified file cannot be opened.
- In the second case, catch is used to determine if the user already exists. An error here indicates that the user does not exist and, rather than exiting, the else statement creates the user. (If the user already existed, you would not want to create another Active Directory account.)
- In the third case, catch is used to exit gracefully if the user is already a member of the Unix Users group.

```
#!/bin/env adedit
# This script creates an Active Directory account
# for each user the specified
# and adds the user to UNIX Users group.
# This automatically fills in their UNIX profile.
# Command line input: file name w/ user names in
# format ffff.llll only
# Prompted input: domain, administrator
# name, default password
package require ade_lib
if { $argc != 1 } {
```

```
puts "usage: $argv0 file"
    exit 1
if {[catch {set users [open [lindex $argv 0] r]}
      errmsq]} {
    puts "Cannot open [lindex $argv 0]."
    exit 1
# Get domain and bind
puts "Enter domain name"
gets stdin domain
set domaindn [dn_from_domain $domain]
puts "Enter account name with administrator privileges"
gets stdin administrator
puts "Enter $administrator password"
gets stdin APWD
bind $domain $administrator "$APWD"
puts "
Define password to be used for all accounts"
gets stdin pwd
# Now start creating accounts from users
# example: "cn=Ellen Edwards,cn=Users,$domaindn"
# "Ellen.Edwards@$domain" ellen.edwards pwd
while {[gets $users sam] >= 0} {
    set name [split $sam .]
    set dn "cn=[lindex $name 0] [lindex $name 1],
            cn=Users,$domaindn"
    set upn $sam@$domain
    if { [catch { select_object $dn }] } {
        # If we fail to select the object,
        # most probably it
        # does not exist. So we create it here.
        puts "Creating $dn"
        create_aduser $dn $upn $sam $pwd
    } else {
        puts "$dn exists. Skip creating."
# Because we already installed and started ZPA,
# this provisions the
# Active Directory account
    catch { add_user_to_group $sam@$domain
            "UNIX Users@$domain" }
close $users
```

Simple Tools

The following scripts are simple "utilities" for getting information from Active Directory about the managed computers and users accounts:

- computers-report: Lists the managed computers in the zone.
- useracc-report: List the Active Directory users in the domain and several account properties.
- user-report: Lists the users in a zone.
- GetComputers: Lists all of the managed computers in the specified domain and the zone to which each computer is joined.

Following these scripts are sample scripts that demonstrate how you can use a script that calls, for example, commonly-used commands in other scripts. For more information, see **Run a Script from a Script** below.

computers-report

Use this command to list managed computers in the zone. The command line arguments are as follows:

Label	Required/Optional	
-domain	required	Domain name.
-m	optional	Bind using the ADEdit host computer's credentials (see bind). You can use either the computer credentials (-m) or the user account credentials (-u).
-u	optional	Administrator's account name.
-р	optional	Administrator's account password. Note : If you do not enter the password in the command line you will be prompted to enter it.
-sep	optional	Separator used between data. The default is separator is the pipe () character.

```
#!/bin/env adedit
# This script lists the managed computers on the zone.
# Command line input is the domain, the
# administrator account name and
# the separator to use between computer's field
# values in the output
package require ade_lib
# Lists all of the managed computers and the zone
proc usage {msg} {
      puts {usage: -domain <domain> [-m] [-u <user>]
         [-p <password>] [-sep csv | tab | <char>]}
      puts $msg
      exit 1
if {[getopt argv -domain domain] == 0} {
    usage "Missing domain"
set verbose 0
if {[getopt argv -v]} {
    set verbose 1
set sep "|"
getopt argv -sep sep
if {$sep == "csv"} {set sep ","}
if {$sep == "tab"} {set sep "\t"}
if {[getopt argv -m]} {
     bind -gc -machine $domain
} else {
   if {[getopt argv -u user]} {
      if {[getopt argv -p password]} {
```

```
bind -gc $domain $user $password
       } else {
        bind -gc $domain $user}
     } else {
    bind -gc $domain
# this code runs entirely off the GC
set scps [get_objects -gc -depth sub [dn_from_domain $domain] {(&
(displayName=$CimsComputerVersion*)(objectClass=serviceConnectionPoint))}]
foreach scp $scps {
    select_object -gc $scp
    set name [get_object_field name]
    set parent ""
    # first look for parentLink
    foreach k [get_object_field keywords] {
       set bits [split $k ':']
       if {[lindex $bits 0] == "parentLink"} {
          set sid [lindex $bits 1]
          #ok we got it
          # make sure it exists
       catch {set parent [principal_from_sid $sid]}
     # if we didn't then try by managed By (DC3)
     if {$parent == ""} {
        set mb [get_object_field managedBy]
        if {\$mb != ""} {
           set parent $mb
        }
         set orphan 0
         if {$parent == ""} {set orphan 1}
           set path [get_parent_dn [get_parent_dn
               [get_object_field dn]]]
           set zone [string range [get_rdn $path] 3 end]
           puts $name$sep$zone$sep$orphan
     }
```

useracc-report

Use this command to list all users and their Active Directory account control values. The command line arguments are as follows:

Label	Required/Optional	Description
-domain	required	Domain name
-m	optional	Bind using the ADEdit host machine's credentials (see bind) Note: If you use -m you do not need to enter -u
-u	optional	Administrator's account name.

Label	Required/Optional	Description
-p	optional	Administrator's account password. Note: If you do not enter the password in the command line you will be prompted to enter it.
-sep	optional	Separator used between data. Default is

```
#!/bin/env adedit
# This script lists all the users and their Active Directory account control values
package require ade_lib
# List users and the following field
proc usage {msg} {
              puts {usage: -domain <domain> [-m] [-u <user>] [-p <password>] [-sep csv | tab
| <char>]}
              puts $msq
              exit 1
if {[getopt argv -domain domain] == 0} {
              usage "Missing domain"
set verbose 0
if {[getopt argv -v]} {
              set verbose 1
}
set sep "|"
getopt argv -sep sep
if {$sep == "csv"} {set sep ","}
if {$sep == "tab"} {set sep "\t"}
if {[getopt argv -m]} {
              bind -machine $domain
} else {
  if {[getopt argv -u user]} {
      if {[getopt argv -p password]} {
              bind $domain $user $password
       } else {
        bind $domain $user}
              } else {
    bind $domain
 }
}
cache on
proc my_convert_msdate {msdate} {
   if {$msdate==9223372036854775807} {
        return -1
    return [clock format [expr ($msdate/10000000)-11644473600] -format "%m/%d/%y %H:%M:%S"]
proc nice_date {date} {
if {$date == ""} {return $date}
if {$date == 0} {return ""}
set ret [my_convert_msdate $date]
if {\ret == -1} {\return ""}
return $ret;
set users [get_objects -depth sub [dn_from_domain $domain] "(objectcategory=Person)"]
foreach user $users {
              select_object $user
              set uac [get_object_field userAccountControl]
```

```
if {$uac == ""} {continue}
# gof is get_object_field
eval "set name [gof cn]"
#puts [gof dn]
set sam [gof sAMAccountName]
set exp [nice_date [gof accountExpires] ]
set locked [nice_date [gof lockoutTime] ]
set lastlogon [nice_date [gof lastLogon] ]
set enabled [expr $uac&0x2 ]
set enabstr "False"
if {$enabled} {set enabstr "True"}
puts $name$sep$sam$sep$exp$sep$locked$sep$lastlogon$sep$enabstr
```

user-report

}

Use this command to lists the users in the specified zone. The command line arguments are as follows:

Label	Required/Optional	Description
-Z	required	The distinguished name of the zone
-m	optional	Bind using the ADEdit host machine's credentials (see bind) Note: If you use - m you do not need to enter -u
-u	optional	Administrator's account name.
-p	optional	Administrator's account password. Note: If you do not enter the password in the command line you will be prompted to enter it.

```
#!/bin/env adedit
# This script lists the users in the zone you specify in the command line.
# On the command line use either -m or -u
package require ade_lib
proc usage {msg} {
              puts {usage: -z <zoneDN> [-m] [-u <user>] [-p <password>]}
              puts $msq
              exit 1
if {[getopt argv -z zoneDN] == 0} {
              usage "Missing input zone. Enter full distinguished name"
if {[catch {domain_from_dn $zoneDN} domain]} {
              usage "Invalid input zone name. Enter full distinguished name"
}
set verbose 0
if {[getopt argv -v]} {
              set verbose 1
if {[getopt argv -m]} {
              bind -machine $domain
} else {
   if {[getopt argv -u user]} {
      if {[getopt argv -p password]} {
              bind $domain $user $password
       } else {
```

GetComputers

Use this command to list all the Centrify-managed computers in the specified domain. Enter the domain name in the command line.

```
#!/bin/env adedit
# GetComputers
# Purpose: Retrieves a listing of all UNIX computers in all DelineaZones.
package require ade_lib
puts
This script retrieves a listing of all UNIX computers in the specified domain"
puts "and shows the zone to which it is joined"
if { $argc == 0 } {
              puts
              Command format: $argv0 domain name"
              exit 1
 }
set domain [lindex $argv 0]
# Use lindex command because argv is a list and bind requires a string
puts '
Enter administrator name for bind command"
gets stdin admin
bind $domain $admin
foreach ZONE [get_zones $domain] {
              select_zone $ZONE
              foreach COMPUTER [get_zone_computers] {
                             puts -nonewline $COMPUTER:; puts $ZONE;
              }
}
```

Run a Script from a Script

The following scripts illustrate the use of the Tcl source command to run the script in a specified file. In this example, the source file is setenv, which prompts the user to enter environment variables such as the domain and zone.

Note You may find repeated use of setenv to be maddening since it prompts you for all of the environment variables regardless of whether the command actually needs them. This is done for demonstration purposes only. In a production environment, you would eliminate the prompts you don't need by tailoring setenv specifically to your environment. Feel free to remove or comment out parts when you've had enough.

The subsequent scripts in this section call the setenv script and then run a short script that does simple queries, such as get the child zones, get the computers in the zone, and get the groups.

setenv

This script prompts you to enter data that can be used in the calling script. This example is intended as a demonstration only. Not all of the information is relevant to the calling script. Note that this sample script assumes

you are using the default deployment structure with a top-level organizational unit. If you are not using the default deployment structure, you should modify the sample script to reflect the structure you are using before testing its operation.

```
# Setenv file contents
# Purpose: Sets up a common environment for the following Active Directory
# tools, selecting the Active Directory Domain, binding the user, and
# defining commonly used variables.
# Other Active Directory tools:
# GetZones
# GetUsers
# GetGroups
# GetChildzones
# GetComputers
puts '
This portion of the script prompts you to enter the domain and account name for the bind
command."
# If you are always using the same domain, comment out the puts and gets and use the set
command instead
puts "
Enter the domain name"
gets stdin domain
ar{\#} get the distinguished name for the domain.
set domaindn [dn_from_domain $domain]
puts "
Enter administrator account name for bind command"
gets stdin admin
bind $domain $admin
puts "
bind to $domain complete"
puts "
The next two prompts ask you to enter the OU and container for your zone information"
puts "
Enter the name of the Active Directory container that holds the Delineazone-related data"
gets stdin zonesContainer
# If you are always using the same zone, comment out the puts and gets and use the set
command instead
# set zonesContainer <Active Directory container with zones data>
puts "
Enter the name of the organizational unit that has the zone container."
gets stdin zonesContainerOU
# If you are always using the same OU for the zone container, comment out the puts and gets
and use the set command instead
# set zonesContainerOU <Active Directory OU with zones container>
puts "
Enter the base organizational unit with the Delineamanaged computers data"
gets stdin baseOU
# If you are always using the same base OU, comment out the puts and gets commands and use
the set command instead
# set baseOU <base OU name>
puts "
The next prompt asks for the parent zone."
# If you are always using the same zone, comment out the puts and gets and use the set
command instead
# set parentZone <parent zone name>
puts "
Enter the parent zone name"
gets stdin parentZone
```

GetZones

Use this script to get a list of all the zones in a domain.

```
#!/bin/env adedit
# GetZones
# Purpose: Performs a recursive listing of all Delineazones in the specified
# domain
package require ade_lib
source setenv
puts "
This script retrieves a recursive listing of all Delineazones in the $domain domain"
puts '
The Active Directory folder with the Delineazone data is named $zonesContainer"
puts "
That container is in organizational unit $zonesContainerOU"
puts '
The parent zone is $parentZone"
foreach ZONE [get_zones $domain] {
        puts $ZONE;
```

GetUsers

Use this script to get a list of all users in a zone.

```
# GetUsers
# Purpose: Operates on a recursive listing of all UNIX users in all
# DelineaZones, and retrieves the administered UNIX attribute values
# for each user object in each zone.
package require ade_lib
puts
This script retrieves the UNIX attributes for each user in each zone in the specified domain"
source setenv
foreach ZONE [get_zones $domain] {
     select_zone $ZONE
     foreach USER [get_zone_users] {
           save_zone_user $USER
           puts -nonewline "[get_zone_user_field uname]:[gzuf uid]:[gzuf gid]:[gzuf gecos]:
[gzuf home]:[gzuf shell]"; puts :$USER:$ZONE
     }
}
```

GetGroups

Use this script to get the UNIX group attribute values for the groups in the managed computers.

```
#!/usr/bin/env adedit
# GetGroups
# Purpose: Retrieves the UNIX group attribute values for each UNIX
# group administered in the parent zone specified in setenv.
# To select a different zone, change the DN in the select_zone command
package require ade_lib
puts "
This script retrieves the group attribute values for each UNIX group in the specified parent
zone"
source setenv
select_zone "CN=$parentZone,CN=$zonesContainer,OU=$zonesContainerOU,$domaindn"
foreach GROUP [get_zone_groups] {
```

```
select_zone_group $GROUP
puts -nonewline "[get_zone_group_field name]:[gzgf gid]"; puts :$GROUP
}
```

GetChildZones

Use this command to get a list of the child zones for the specified parent.

```
#!/bin/env adedit
# # GetChildZones
# Purpose: Retrieves a recursive listing of all new hierarchical Delineachild
# zones administered underneath the parent zone specified in setenv
#
package require ade_lib
source setenv
puts "
This script retrieves a recursive listing of all child zones in $parentZone"
puts "
The Active Directory folder with the Delineazone information is $zonesContainer"
select_zone "CN=$parentZone,CN=$zonesContainer,OU=$zonesContainerOU,$domaindn"
foreach ZONE [get_child_zones -tree] {
    puts $ZONE;
}
```

ADEdit Command Reference

This chapter describes each ADEdit command in alphabetical order. Each command description includes details about the options and arguments you can specify and the values returned, if applicable.

Inn, addition, some ADEdit commands can only be used when you are working with hierarchical zones. Other commands can be used in classic or hierarchical zones, but require you to specify the zone type. For each command, the **Zone type** section indicates whether there are any zone related constraints as follows:

- Hierarchical only: You must have a hierarchical zone selected for the command to work.
- Classic and hierarchical: You can use the command in both classic zones and hierarchical zones. Options in the command let you specify whether you are working with a classic or hierarchical zone. In most cases, commands that work in both classic and hierarchical zones, require the classic zone to be a classic4 zone. The classic3 zone type is intended for backward compatibility with older agents and only commands where the zone type is not applicable are supported.
- Classic only: You must have a classic4 zone selected for the command to work.
- Not applicable: You can use the command because the zone type does not matter.

In addition to the zone type, syntax, and return values, each command description includes at least one usage example and a summary of related commands, if appropriate.

add command to role

Use the add_command_to_role command to add a privileged UNIX command to the currently selected role that is stored in memory. The command must already exist. You can create privileged UNIX commands using new_dz_

command.

The add_command_to_role command does *not* change the role as it is stored Active Directory. Running the command changes the role only in memory. You must save the role before the added command takes effect in Active Directory. If you select another role or quit ADEdit before saving the role, any commands you've added since the last save won't take effect.

Zone Type

Classic and hierarchical

Syntax

add_command_to_role command[/zonename]

Abbreviation

acr

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
command [/zonename]	string	Required. Specifies the name of an existing UNIX command to add to the currently selected role. If the UNIX command right that you want to add is defined in the current zone, the <i>zonename</i> argument is optional. If the UNIX command right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific UNIX command right to add.

Return Value

This command returns nothing if it runs successfully.

Examples

add_command_to_role basicshell/global

This example adds the command basicshell, defined in the global zone, to the currently selected role.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select a role to work with:

ADEdit Command Reference

- get_role_commands returns a Tcl list of the UNIX commands for the role.
- new_role creates a new role.
- select_role retrieves a role from Active Directory.

The following commands enable you to work with a currently selected role:

- add_pamapp_to_role adds a PAM application to the role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications for the role.
- get_role_field reads a field value from the role.
- list_role_rights lists of all privileged commands and PAM application rights for the role.
- remove_command_from_role removes a UNIX command from the role.
- remove_pamapp_from_role removes a PAM application from the role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the role.

add_map_entry

Use the add_map_entry command to add an entry to the currently selected NIS map stored in memory. This command does not support a comment field. If you want to add a comment along with the entry use add_map_entry_with_comment instead.

To change an existing entry in a NIS map, use delete_map_entry to remove the entry, then add the revised version using add_map_entry.

The add_map_entry` command changes the NIS map in memory and in Active Directory. You do not need to save the NIS map for the added entry to take effect in Active Directory.

Zone Type

Not applicable

Syntax

add_map_entry key value

Abbreviation

ame

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
key	string	Required. Specifies the key of the NIS map entry.
value	string	Required. Specifies the value of the NIS map entry.

Return Value

This command returns nothing if it runs successfully.

Example

add map entry Finance "Hank@acme.com,Sue@acme.com"

This example adds the NIS map entry Finance with the value Hank@acme.com, Sue@acme.com to the currently selected NIS map.

Related Commands

The following commands enable you to view and select the NIS map you want to work with:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout of all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use additional commands to work with that map's entries or use the following commands to delete or save the currently selected NIS map:

- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

add_map_entry_with_comment

Use the add_map_entry_with_comment command to add an entry to the currently selected NIS map stored in memory and lets you include a comment. The comment can be up to 2048 characters and does not support new line syntax.

To change an existing entry in a NIS map, use delete_map_entry to remove the entry, then add the revised version using add_map_entry_with_comment.

The add_map_entry_with_comment command changes the NIS map in memory and in Active Directory. You do not need to save the NIS map for the added entry to take effect in Active Directory.

Zone Type

Not applicable

Syntax

add_map_entry_with_comment key value comment

Abbreviation

amewc

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
key	string	Required. Specifies the key of the NIS map entry.
value	string	Required. Specifies the value of the NIS map entry.
comment	string	Required. Specifies the comment for the NIS map entry.

Return Value

This command returns nothing if it runs successfully.

Example

add_map_entry_with_comment Finance "Hank@acme.com, Sue@acme.com" "new Finance staff"

This example adds the NIS map entry Finance, with the value Hank@acme.com, Sue@acme.com and comment new Finance staffto the currently selected NIS map.

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select a NIS map to work with:

- get_nis_maps returns a Tcl list of NIS maps in the current zone.
- list_nis_maps lists to stdout the NIS maps in the current zone.
- new_nis_map creates a new NIS map.
- select_nis_map retrieves a NIS map from Active Directory.

The following commands enable you to work with a currently selected NIS map:

- add_map_entry adds an entry to the NIS map.
- delete_map_entry removes an entry from the NIS map.
- get_nis_map_field reads a field value from the NIS map.
- get_nis_map and get_nis_map_with_comment return a Tcl list of NIS map entries.
- list_nis_map and list_nis_map_with_comment lists NIS map entries to stdout.

add_object_value

Use the add_object_value command to add a value to a multi-valued field (attribute) of a specified Active Directory object in Active Directory. This command only works on the object in Active Directory, not on the currently selected Active Directory object in memory (if there is one).

If the added value isn't valid, Active Directory will report an error and add_object_value won't save the value.

This command is useful for fields that may be very large—members of a group, for example.

Zone Type

Not applicable

Syntax

add_object_value dn field value

Abbreviation

aov

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
dn	string	Required. Specifies the distinguished name (DN) of the Active Directory object in which to add a value.
field	string	Required. Specifies the name of a multi-valued field in the currently selected Active Directory object to which to add the value. This can be any field that is valid for the type of the currently selected Active Directory object.
value		Required. Specifies the value to add to the field. The type of value depends on the field specified by the <i>field</i> argument.

Return Value

This command returns nothing if it runs successfully.

Examples

add_object_value cn=groups,dc=acme,dc=com users adam.avery

This example adds the value adam. avery to the users field of the groups object specified by the DN.

Related Commands

The following commands enable you to work with Active Directory objects:

- delete_object deletes the Active Directory object from Active Directory.
- delete_sub_tree deletes the Active Directory object and all of its children.
- get_object_field reads a field value from the Active Directory object.
- remove_object_value removes a value from a multi-valued attribute of the Active Directory object.
- save_object saves the Active Directory object.
- set_object_field sets a field value in the Active Directory object.

add pamapp to role

Use the add_pamapp_to_role command to add a PAM application right to the currently selected role stored in memory. The PAM application right must already exist. You can create PAM application rights using new_pam_app.

The add_pamapp_to_role command does *not* change the role as it is stored Active Directory. The command only changes the role stored in memory. You must save the role using save_role before the added PAM application takes effect in Active Directory. If you select another role or quit ADEdit before saving the role, any PAM application rights you've added since the last save won't take effect.

You can only use the add_pamapp_to_role if the currently selected zone is a classic4 or hierarchical zones. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

add_pamapp_to_role app[/zonename]

Abbreviation

apr

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
app [/zonename]	string	Required. Specifies the name of an existing PAM application right to add to the currently selected role. If the PAM application right that you want to add is defined in the current zone, the <i>zonename</i> argument is optional. If the PAM application right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific PAM application right to add.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example adds the PAM application login-all, which is defined in the currently selected zone, to the currently selected role:

add_pamapp_to_role login-all

The following example adds the PAM application access right oracle-admin from the emea zone to the currently selected role:

add_pamapp_to_role oracle-admin/emea

Related Commands

The following commands enable you to view and select the role you want to work with:

- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.
- get_roles returns a Tcl list of roles in the current zone.
- list_roles displays a list to stdout of all roles in the currently selected zone.

After you have a role stored in memory, you can use additional commands to work with that role's fields, commands, and applications or use the following commands to delete or save the currently selected role:

- save_role saves the selected role with its current settings to Active Directory.
- delete_role deletes the selected role from Active Directory and from memory.

add_sd_ace

Use the add_sd_ace command to add an access control entry (ACE) in ACE string form to a security descriptor (SD) in SDDL (security descriptor description language) form.

The command takes an ACE string and an SDDL string. The command writes the ACE string there. The command returns an SDDL string that includes the added ACE string.

Zone Type

Not applicable

Syntax

add_sd_ace sddl_string ace_string

Abbreviation

ase

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
sddl_string	string	Required. Specifies a security descriptor in SDDL format.
ace_string	string	Required. Specifies an access control entry in ACE string form (which is always enclosed in parentheses)

Return Value

This command returns a security descriptor string in SDDL format if it runs successfully.

Examples

This example adds an ACE string (A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;SY) to an SDDL at the end of the command.

```
add_sd_ace 0:DAG:DAD:AI(A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA)(OA;;CCDC;bf967aba-0de6-11d0-a285-
00aa003049e2;;AO)
(OA;;CCDC;bf967a9c-0de6-11d0-a285-00aa003049e2;;A0)(OA;;CCDC;bf967aa8-0de6-11d0-a285-
00aa003049e2;;P0)
(A;;RCLCRPLO;;;AU)(OA;;CCDC;4828cc14-1437-45bc-9b07-ad6f015e5f28;;AO)
(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
```

```
(OA:CIIOID:RP:59ba2f42-79a2-11d0-9020-00c04fc2d3cf:bf967aba-0de6-11d0-a285-
00aa003049e2:RU)
(OA:CIIOID:RP:037088f8-0ae1-11d2-b422-00a0c968f939:4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-
00aa003049e2;ED)
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-
00aa003049e2;ED)
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-
00aa003049e2;ED)
(OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA; CIIOID; RCLCRPLO;; bf967a9c-
Ode6-11d0-a285-00aa003049e2;RU)(OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA; CIID; RPWPCR; 91e647de-d96f-4b70-9557-d63ff4f3ccd8; ; PS)
(A; CIID; SDRCWDWOCCDCLCSWRPWPDTLOCR;;; EA)
(A;CIID;LC;;;RU)(A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA) (A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY)
```

This example returns:

```
O:DAG:DAD:AI(A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY)(A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA)
(OA;;CCDC;bf967aba-0de6-11d0-a285-00aa003049e2;;A0)(OA;;CCDC;bf967a9c-0de6-11d0-a285-
00aa003049e2;;AO)
(OA;;CCDC;bf967aa8-0de6-11d0-a285-00aa003049e2;;PO)(A;;RCLCRPLO;;;AU)(OA;;CCDC;4828cc14-
1437-45bc-
9b07-ad6f015e5f28;;AO) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-
45bc-9b07-
ad6f015e5f28;RU)(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-
a285-
00aa003049e2;RU)(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-
9b07-
ad6f015e5f28;RU)(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-
a285-
00aa003049e2;RU)(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-
9b07-
ad6f015e5f28;RU)(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-
a285-
00aa003049e2;RU)(OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-
9b07-
ad6f015e5f28;RU)(OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-
00aa003049e2;RU)(OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;4828cc14-1437-45bc-
ad6f015e5f28;RU)(OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-
a285-
00aa003049e2;RU)(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-
a285-
00aa003049e2;ED)(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-
00aa003049e2;ED)(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-
a285-
```

```
00aa003049e2;ED) (OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RCLCRPLO;;
bf967a9c-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
(OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS)
(A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;EA)
(A;CIID;LC;;;RU) (A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA)
```

Related Commands

The following commands enable you to work with security descriptor strings:

- explain_sd converts security descriptor in SDDL format to a human-readable form.
- remove_sd_ace removes an access control entry (ACE) from a security descriptor.
- set_sd_owner sets the owner of a security descriptor.

bind

Use the bind command to bind ADEdit to a domain. Multiple bind commands can bind ADEdit to multiple domains in multiple forests. ADEdit must be bound to at least one domain before its commands have any effect on Active Directory or Delinea objects. When ADEdit is bound to multiple domains, its commands can work on any of those domains.

You can use bind to bind to any domain for which the DNS can resolve a name and for which you have log-in permission. ADEdit's host computer does not need to be joined to a domain for ADEdit to bind to and work on that domain.

You can optionally specify a server in the domain to bind to, in which case ADEdit binds to that domain controller. If you don't specify a server, ADEdit automatically binds to the closest, fastest domain controller. You can use options to request automatic binding to a global catalog (GC) domain controller or to a writable domain controller.

You can authorize the bind connection to a domain controller in the following ways:

- If you provide no user or password arguments, bind uses the user name and password stored in the current Kerberos credential cache on the ADEdit host computer.
- If you provide a user argument without the password argument, bind in interactive mode prompts you for a password, then uses the user argument along with your entered password for authorization.
- If you provide a user argument and password argument, bind uses the user and password arguments for authorization.
- If you specify the -machine option, ADEdit authenticates using the credentials for the ADEdit host computer. You cannot provide user or password arguments if you specify the -machine option. Note that you must have read permission on the host's credential files to use this option, so you must typically have root permissions to use the option.

Zone Type

Not applicable

bind [-gc] [-write] [-machine] [server@]domain [user [password]]

Abbreviation

None

Options

This command takes the following options:

Option	Description
-gc	Requests an automatic binding to a global catalog (GC) domain controller. This option has no effect if there's a domain controller specified using the <i>server</i> argument.
-write	Requests an automatic binding to a writable domain controller. This option has no effect if there's a domain controller specified using the <i>server</i> argument.
-machine	Binds using the credentials for the ADEdit host computer. Note that most computer accounts have only read permission, not write permission for Active Directory. To use this option, you must have read permission on the local computer's keytab file and credentials cache. In most cases, only the root user has this right.

Arguments

This command takes the following arguments:

Argument	Туре	Description
[server]@domain	string	Required. Specifies the domain to bind to. If you want to specify a domain controller to connect to, precede the domain with the name of the domain controller's server followed by the "@" symbol. If you don't specify a domain controller, bind performs an automatic binding to the domain controller that ADEdit determines is most optimal for binding.
[user]	string	Optional. Specifies the user name for logging on to the domain controller. If you don't specify this argument and the -machine option is also not present, ADEdit attempts to log on using your current account credentials. If you specify the -machine option, you cannot use this argument.
[password]	string	Optional. Requires the <i>user</i> argument. Specifies the password to use when logging on to the domain controller as <i>user</i> .

Return Value

This command returns no value.

Examples

The following example binds ADEdit to the domain acme.com, logging in as administrator with the password #3gEgh^&4:

bind acme.com administrator #3gEgh^&4

Note that a password that includes Tcl-special characters such as \$ might trigger character substitution that modifies the password. To ensure that a password isn't altered by the Tcl interpreter, enclose the password in braces (). For example:

bind acme.com maya,garcia {\$m113s88}

Related Commands

The following commands perform actions related to the bind command:

- get_bind_info returns information about a domain to which ADEdit is bound.
- poprestores the context from the top of ADEdit's context stack to ADEdit.
- push saves ADEdit's current context to ADEdit's context stack.
- show returns the current context of ADEdit: its bound domains and its currently selected objects.

clear_rs_env_from_role

Use the clear_rs_env_from_role command to remove the restricted shell environment from the currently selected role that is stored in memory.

The clear_rs_env_from_role command does not modify the information stored in Active Directory for the role. If you run this command using ADEdit without saving the role to Active Directory, the change will have no effect on the restricted shell environment stored in Active Directory.

You can only use the clear_rs_env_from_role command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

clear_rs_env_from_role

Abbreviation

crse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

clear_rs_env_from_role

This example removes the restricted shell environment from the current role.

Related Commands

The following commands perform actions related to this command:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.
- set_rs_env_for_role assigns a restricted shell environment to the current role.

After you have a restricted shell environment stored in memory, you can use the following commands to work with that: restricted shell environment:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.

create_computer_role

Use the create_computer_role command to create a new computer role in Active Directory. The command does *not* store the new computer role in memory nor set it as the currently selected ADEdit computer role. To manage the computer role, you must select it using select_zone and then use zone commands to work with the computer role's fields.

ADEdit requires a valid license before the computer role is created. The create_computer_role command does an implicit search. The first place it looks is the ADEdit context for a valid license indicator (see the validate_license command) for the forest. If an indicator is not in the context, the command checks for a valid license as follows:

- Bind to the global catalog (GC) domain controller, search the forest for the license container and validate the license.
- Bind to the current domain, search for the license container and validate the license.

If it finds a valid license, it stores an indicator in the current context and creates the new computer role. If it does not find a valid license, create_computer_role reports "No valid license found" and exits. If the command fails, use validate license to validate the license container explicitly.

To associate role assignments with the new computer role, you must select the computer role, then use new_role_assignment.

Zone Type

Hierarchical only

Syntax

create_computer_role computer_role_path group_upn

Abbreviation

ccr

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
computer_ role_path	string	Required. Specifies a path to the new computer role. The path consists of the hosting zone's distinguished name followed by a slash and the name of the new computer role.
group_upn	string	Required. Specifies the user principal name (UPN) of a computer group in Active Directory to associate with this computer role. This computer group defines the set of computers in which this computer role functions. The computer group must be available within the computer role's host domain.

Return Value

This command returns no value if it runs successfully.

Examples

The following example creates a new computer role named LinuxComputers in the global zone of acme.com:

create_computer_role {CN=global,CN=Zones,CN=Acme,DC=acme,DC=com/LinuxComputers} linux_ computers@acme.com

The scope of the computer role is defined by the group named linux_computers which is an Active Directory groups defined in acme.com. To work with the new computer role, you must select it as a zone:

select_zone "CN=global,CN=Zones,CN=Acme,DC=acme,DC=com/LinuxComputers"

Related Commands

The following command retrieves the computer role from Active Directory and stores it in memory so you can use other commands to work with it.

select_zone retrieves the computer role and stores it in memory.

After you have a computer role selected as a zone, you can use the following commands to view and manage the computer role:

- new_role_assignment creates a new role assignment for the selected computer role.
- list_role_assignments lists user role assignments for the selected computer role.
- get_role_assignments returns a Tcl list of user role assignments for the selected computer role.
- get_zone_field retrieves what computer group is associated with the computer role.
- set_zone_fieldsets what computer group is associated with the computer role.
- delete_zone deletes the selected computer role from Active Directory and memory.

create_zone

Use the create_zone command to create a new zone in Active Directory. The command does *not* store the new zone in memory nor set it as the currently selected ADEdit zone. To manage the zone, you must select it using select_zone and then use zone commands.

This command can create different types of zones and the zones can use different types of schemas, depending on the schema you are using for Active Directory. Before the zone is created, however, ADEdit checks for a valid license.

The create_zone command first checks the ADEdit context for a valid license indicator for the forest. If an indicator is not found in the context, the command checks for a valid license as follows:

- Bind to the global catalog (GC) domain controller, search the forest for the license container and validate the license.
- Bind to the current domain, search for the license container and validate the license.

If the command finds a valid license, it stores an indicator in the current context and creates the new zone. If it does not find a valid license, create_zone reports "No valid license found" and exits. If the command fails, use the validate_license command to validate the license container explicitly.



When this command creates a zone, the zone contains predefined roles such as "sftp" and "UNIX Login." The zone does not, however, contain the role "Windows Login" because ADEdit does not support Windows rights.

Zone Type

Classic and hierarchical

Syntax

create_zone [-ou] [-nonisserversgroup] [-notdelegateanyright] zone_type path [schema_type]

Abbreviation

cz

Options

This command takes the following options:

Option	Description
-nonisserversgroup	Creates the new zone without the zone_nis_servers group.
-notdelegateanyright	Creates the new zone but does not set the zone permissions. If you use this option, be sure to set the zone permissions later.
-ou	Creates the new zone as an organizational unit object. If not present, the new zone is created as a container object. Note that the parent container determines what type of object the zone can be. If the parent container is a generic container object, the zone must be a container object. If the parent container is an organizational unit object, the zone can be either an organizational unit object or a container object.

Arguments

This command takes the following arguments:

Argument	Туре	Description
zone_type	string	Required. The possible values are: tree specifies a hierarchical zone that can be a parent or child zone. classic3 specifies a classic zone that is compatible with agent version 3 and later. classic4 specifies a classic zone that is compatible with agent version 4 and later. computer specifies a computer-level zone that consists of a single computer in a hierarchical zone. This zone type is used to support computer-level overrides for user and group profiles and role assignments. It is not applicable in classic zones. classic-computer specifies a computer-level zone that consists of a single computer in a classic zone. This zone type is used to enable you to assign a role to a specific computer in classic zones. It is not applicable in hierarchical zones.
path	string	Required. Specifies a path to the new zone. The path consists of the new zone's distinguished name (DN) and (if a computer override) the name of the computer.

Argument	Туре	Description
schema_ type	string	Optional. Specifies the type of schema to use for the new zone. The possible values are: sfu specifies the Microsoft Services For UNIX schema. This setting can be used for tree, classic3, and classic4 zone types. If it's used for a hierarchical zone, it can only be the root of the zone hierarchy. std specifies the dynamic schema. This setting can be used for all zone types. This is the default schema unless ADEdit detects the RFC2307 schema. rfc specifies the RFC2307 schema. This setting can be used for all zone types. This is the default schema if ADEdit detects that RFC2307 is installed and the domain is at Windows Server 2003 functional level. If none of these values is present, the default is either std or rfc as described above.

Return Value

This command returns no value if it runs successfully.

Examples

The following examples illustrate how to create a classic zone, hierarchical zone, and computer-specific zone in Server Suite 2012 and later.

Classic Zone

The following command creates a classic zone named finance in the Acme organizational unit in the acme.com domain that uses the dynamic schema (std):

create_zone classic4 "CN=finance,OU=Acme,DC=acme,DC=com" std

Hierarchical Zone

The following command creates a new hierarchical parent zone named finance in the zones container in the Acme organizational unit in the acme.com domain:

create_zone tree "CN=finance,CN=Zones,OU=Acme,DC=acme,DC=com" std

To make the finance zone a child zone within a global zone already created in the same container, OU, and domain, you would next select finance to make it the currently selected zone, then use set_zone_field (szf) to specify the global zone as its parent, and the save finance. For example:

select_zone "CN=finance,CN=Zones,OU=UNIX,DC=acme,DC=com" szf parent
"CN=global,CN=Zones,OU=UNIX,DC=acme,DC=com" save_zone

Computer-specific Zone

The following command creates a computer-specific zone for the computer srv1 in the apache zone, which is a child of the global zone, in the Zones container in the Acme organizational unit in the acme.com domain.

 $\verb|create_zone| computer svr1.acme.com@CN=apache, CN=global, CN=Zones, OU=Acme, DC=acme, DC=computer svr1.acme.com@CN=apache, CN=global, CN=Zones, OU=Acme, DC=acme, DC=computer svr1.acme.com@CN=apache, CN=global, CN=Zones, OU=Acme, DC=acme, DC=a$

Related Commands

Before you use this command, you must bind to one or more Active Directory domains. The following command enables you to store a newly created zone in memory:

select_zone retrieves a zone from Active Directory and stores it in memory.

After you have created a new zone and stored it in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

delegate_zone_right

Use the delegate_zone_right command to delegate an administrative right for the currently selected zone to a security principal (user or group). Zone rights allow a user or group to use and manage zone properties, including computer-specific zone properties and computer roles.

Zone Type

Classic and hierarchical

Syntax

delegate_zone_right right principal_upn

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
right	string	Required. Specifies the right to delegate. Possible values: add_computer_role : The right to add computer roles to the zone. add_computer_zone : The right to add computer-specific zones. add_group : The right to add groups to the zone.

Argument	Туре	Description
		add_nismap: The right to add NIS maps to the zone. add_remove_nismap_ entry: The right to add or remove NIS map entries. add_user: The right to add users to the zone.
		add_user_group_to_computer_zone: The right to add user and group overrides to the selected computer-specific zone. change_user: The right to modify user profiles in the zone. change_group: The right to modify group profiles in the zone.
		<pre>change_computer: The right to modify computer profiles in the zone. change_ zone: The right to change zone properties. delegate_permission_for_ computer_zone: The right to delegate permissions to other users for computer- specific zones.</pre>
right (continued)	string (continued)	delete_computer: The right to remove computers from the zone. delete_computer_role: The right to delete computer roles in the zone. delete_computer_zone: The right to delete computer-specific zones.
		delete_group : The right to remove groups from the zone. delete_user : The right to remove users from the zone. delete_user_group_from_computer_ zone : The right to delete user and group overrides from the selected computer-specific zone.
		delete_zone : The right to remove the zone. enable_dz : The right to initialize authorization (privilege elevation service) data. This right is only applicable in classic zones. import : The right to import users and groups into the zone.
		join : The right to join computers to the zone. manage_role_assignments : The right to modify the roles assigned in zones, computer-specific zones, and computer roles. manage_roles_and_rights : The right to modify role definitions and access rights.
		modify_computer_role : The right to modify computer role entries. This right is not applicable in classic zones. modify_nismap_entry : The right to modify NIS map entries. modify_user_group_in_computer_zone : The right to modify user and group overrides in the selected computer-specific zone.
right (continued)	string (continued)	nisservers : The right to allow computers to respond to NIS client requests. remove_nismap : The right to remove NIS maps.
principal_upn	string	Required. Specifies the user principal name (UPN) of a user or group in Active Directory to delegate the specified right to.

Return Value

This command returns no value if it runs successfully.

Examples

delegate_zone_right add_user adam.avery@acme.com

This example delegates the right to add users to the currently selected zone to the Active Directory user Adam Avery.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone to work with:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

delete_dz_command

Use the `delete_dz_command command to delete the currently selected privileged command from Active Directory and from memory. You cannot use other commands to manage privileged commands after deletion because there will be no currently selected command in memory.

Zone Type

Classic and hierarchical

Syntax

delete_dz_command

Abbreviation

d1dzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_dz_command

This example deletes the currently selected command from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command to work with:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

delete_local_group_profile

Use the delete_local_group_profile command to delete a local UNIX or Linux group that has a profile defined in the current zone. When you delete a group, the group's zone object is deleted, but the group's entry in the local /etc/group file is retained.

Zone Type

Hierarchical only.

Syntax

delete_local_group_profile group_name

Abbreviation

d11gp

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
group_name	string	Required. Specifies the UNIX name of the local group to delete from the zone.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_local_group_profile marketing

This example deletes the zone object for the local group marketing. The entry for marketing in the local /etc/group file is retained.

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.

- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

delete_local_user_profile

Use the delete_local_user_profile command to delete a local UNIX or Linux user that has a profile defined in the current zone. When you delete a user, the user's zone object is deleted, but the user's entry in the local /etc/passwd file is retained.

Zone Type

Hierarchical only.

Syntax

delete_local_user_profile user_name

Abbreviation

dllup.

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_name	string	Required. Specifies the UNIX name of the local user to delete from the zone.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_local_user_profile anton.splieth

This example deletes the zone object for the local user anton.splieth. The entry for anton.splieth in the local /etc/passwd file is retained.

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

delete_map_entry

Use the delete_map_entry command to delete an entry from the currently selected NIS map stored in memory. The delete_map_entry command changes the NIS map in memory and in Active Directory. You do not need to save the NIS map for the deleted entry to take effect in Active Directory.

Zone Type

Not applicable

Syntax

delete_map_entry key:index

Abbreviation

d1me

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
key:index	string	Required. Specifies the key of the NIS map entry to delete followed by a colon: and the index number of the key.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_map_entry calla:1

This example deletes the NIS map entry with the key value "calla" and index number 1 from the currently selected NIS map.

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select the NIS map to work with:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout all of the NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map's entries:

- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout the map entries in the currently selected NIS map.
- add_map_entry or add_map_entry_with_comment adds an map entry to the currently selected NIS map.

delete_nis_map

Use the delete_nis_map command to delete the currently selected NIS map from Active Directory and from memory. You cannot use other commands to manage the NIS map after deletion because there will be no currently selected map in memory.

Zone Type

Not applicable

Syntax

delete_nis_map

Abbreviation

d1nm

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_nis_map

This example deletes the currently selected NIS map from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select the NIS map to work with:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout of all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map's entries:

- add_map_entry or add_map_entry_with_comment adds an entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.

- get_nis_map or get_nis_map_with_comment returns a Tcl list of the entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout of the entries in the currently selected NIS map.

delete_object

Use the delete_object command to delete the currently selected Active Directory object from Active Directory and from memory. You cannot use other commands to manage the object after deletion because there will be no currently selected Active Directory object in memory.

Note:Do NOT use the delete_object command to delete an Active Directory user or group that has been provisioned. If you use delete_object to delete a provisioned user or group, you create orphan user or group UNIX data objects. Instead, use the delete_zone_user or delete_zone_group command. In addition, you would use the select_zone_user and select_zone_group rather than select_object to select the user or group. For information about displaying orphan accounts, see the list_zone_users and list_zone_groups.

Zone Type

Not applicable

Syntax

delete_object

Abbreviation

dlo

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_object

This example deletes the currently selected Active Directory object from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected Active Directory object stored in memory. The following commands enable you to view and select the object to work with:

ADEdit Command Reference

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of matching objects.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object with its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use other commands to work with that object's attributes, or the following commands to delete or save information for the object:

- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- save_object saves the selected Active Directory object with its current settings to Active Directory.

delete_pam_app

Use the delete_pam_app command to delete the currently selected PAM application from Active Directory and from memory. You cannot use other commands to manage the PAM application after deletion because there will be no currently selected PAM application in memory.

Zone Type

Classic and hierarchical

Syntax

delete_pam_app

Abbreviation

d1pam

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_pam_app

This example deletes the currently selected PAM application from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. After you have a zone stored in memory, you can use the following commands to view and select the PAM application to work with:

ADEdit Command Reference

- get_pam_apps returns a Tcl list of PAM application rights in the current zone.
- list_pam_apps lists to stdout all PAM application rights in the current zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory

After you have a PAM application stored in memory, you can use the following commands to work with that PAM application's attributes, delete the PAM application, or save information for the PAM application:

- delete_pam_app deletes the selected PAM application right from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application right.
- save_pam_app saves the selected PAM application right with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application right.

delete_role

Use the delete_role command to delete the currently selected role from Active Directory and from memory. You cannot use other commands to manage the role after deletion because there will be no currently selected role in memory.

Zone Type

Classic and hierarchical

Syntax

delete_role

Abbreviation

d1r

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_role

This example deletes the currently selected role from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout all roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_role adds a UNIX command to the currently selected role.
- add_pamapp_to_role adds a PAM application to the currently selected role.
- get_role_apps returns a Tcl list of the PAM applications associated with the role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the role.
- get_role_field reads a field value from the currently selected role.
- list_role_rights lists to stdout all UNIX commands and PAM applications associated with the role.
- remove_command_from_role removes a UNIX command from the currently selected role.
- remove_pamapp_from_role removes a PAM application from the currently selected role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

delete_role_assignment

Use the delete_role_assignment command to delete the currently selected role assignment from Active Directory and from memory. You cannot use other commands to manage the role assignment after deletion because there will be no currently selected role assignment in memory.

Zone Type

Classic and hierarchical

Syntax

delete_role_assignment

Abbreviation

d1ra

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_role_assignment

This example deletes the currently selected role assignment from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected role assignment stored in memory. The following commands enable you to view and select the role assignment to work with:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout all role assignments in the currently selected zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use other commands to work with that role assignment's fields, or the following commands to save information for the role assignment:

- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- write_role_assignment saves the selected role assignment to a file.

delete_rs_command

Use the delete_rs_command command to delete the currently selected restricted shell command from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for restricted shell commands because there will be no currently selected restricted shell command available in memory.

Zone Type

Classic only

Syntax

delete_rs_command

Abbreviation

d1rsc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_rs_command

This example deletes the currently selected restricted shell command from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.
- set_rsc_field sets a field value in the currently selected command.

delete rs env

Use the delete_rs_env command to delete the currently selected restricted environment from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for a restricted shell environment because there will be no currently selected restricted shell environment available in memory.

Zone Type

Classic only

Syntax

delete_rs_env

Abbreviation

d1rse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_rs_env

This example deletes the currently selected RSE from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.
- set_rse_field sets a field value in the current restricted shell environment.

delete_sub_tree

Use the delete_sub_tree command to delete an object and all of its child objects from Active Directory. Only child objects that are in the same container as the specified parent object are deleted. Child objects in other containers are not deleted.

WARNING: This is a very powerful command, and can cause a lot of damage if used incorrectly. It's similar to running rm -rf * in UNIX.

In interactive mode, ADEdit prompts you for confirmation before executing this command. If you use this command in a script, ADEdit does not prompt for confirmation. You should use caution before using this command in a script.

This command can be used on any Active Directory object, including a container, OU, computer object, group or user. However, it is especially useful for deleting a corrupted zone. You'd normally use select_zone and then delete_zone to delete a zone. If the zone is damaged, though, select_zone might not work. In that case, delete_sub_tree will do the job.

If the zone is a hierarchical zone, this command deletes only the child zones in the same container as the parent zone. If there are any child zones in other containers, they are not deleted.

Zone Type

Classic and hierarchical

Syntax

delete_sub_tree dn

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
dn	DN	Required. Specifies the distinguished name of the object (with all of its children) to remove from Active Directory.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_sub_tree "CN=marketing,CN=Zones,CN=Acme,DC=acme,DC=com"

This example deletes the currently selected "marketing" zone with all of its children from Active Directory.

Related Commands

The following commands enable you to view and manage the Active Directory object to work with:

- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of matching objects.
- new_object creates a new Active Directory object and stores it in memory.

ADEdit Command Reference

- save_object saves the selected Active Directory object with its current settings to Active Directory.
- select_object retrieves an object with its attributes from Active Directory and stores it in memory.

The following commands enable you to view and manage Active Directory object attributes:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- set_object_field sets a field (attribute) value in the currently selected Active Directory object.

delete_zone

Use the delete_zone command to delete the currently selected zone from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for zones because there will be no currently selected zone available in memory.

This command performs an LDAP sub-tree deletion operation. Only child zones that are in the same container as the specified parent zone are deleted. Child zones that are located in other containers are not deleted. Child zones that are based on pointers defined in the child zone are not deleted. For more information about deleting sub-tree objects, see delete_sub_tree.

In interactive mode, ADEdit prompts you for confirmation before executing this command. If you use this command in a script, ADEdit does not prompt for confirmation. You should use caution before using this command in a script.

Zone Type

Classic and hierarchical

Syntax

delete_zone

Abbreviation

d1z

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_zone

This example deletes the currently selected zone or computer role from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the zone to work with:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory as the currently selected zone.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates an administrative right to a specified user or group.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones for the current zone.
- get_zone_field reads a field value from the currently selected zone.
- set_zone_field sets a field value in the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.

delete zone computer

Use the delete_zone_computer command to delete the currently selected zone computer profile from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for zone computer profiles because there will be no currently selected zone computer profile available in memory. This command only deletes the zone profile for the computer. It does not delete the Active Directory computer account.

Zone Type

Classic and hierarchical

Syntax

delete_zone_computer [-all]

Abbreviation

d1zc

Options

This command takes the following option:

Option	Description
-all	Removes the corresponding computer-specific zone profile if the selected computer is a computer-specific override zone.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_zone_computer

This example deletes the currently selected zone computer profile from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone computer profile stored in memory. The following commands enable you to view and select the zone computer profile to work with:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computer profiles in the current zone.
- list_zone_computers lists to stdout all zone computer profiles in the current zone.
- new_zone_computer creates a new zone computer profile and stores it in memory.
- select_zone_computer retrieves a zone computer profile from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- get_zone_computer_field reads a field value from the currently selected zone computer profile.
- set_zone_computer_field sets a field value in the currently selected zone computer profile.
- save_zone_computer saves the selected zone computer profile with its current settings to Active Directory.

delete_zone_group

Use the delete_zone_group command to delete the currently selected zone group profile from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for zone groups because there will be no currently selected zone group available in memory.

Zone Type

Classic and hierarchical

delete_zone_group

Abbreviation

dlzg``

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_zone_group

This example deletes the currently selected zone group from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone group stored in memory. The following commands enable you to view and select the zone group to work with:

- get_zone_groups returns a Tcl list of the Active Directory names of all zone groups in the current zone.
- list_zone_groups lists to stdout all zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- get_zone_group_field reads a field value from the currently selected zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

delete_zone_user

Use the delete_zone_user command to delete the currently selected zone user profile from Active Directory and from memory. After you run this command, you cannot run subsequent ADEdit commands for zone users because there will be no currently selected zone user available in memory.

Zone Type

Classic and hierarchical

delete_zone_user

Abbreviation

dlzu

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

delete_zone_user

deletes the currently selected zone user from Active Directory and from memory.

Related Commands

Before you use this command, you must have a currently selected zone user stored in memory. The following commands enable you to view and select the zone user to work with:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone. * list_zone_users lists to stdout all zone users in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

dn_from_domain

Use the dn_from_domain command to convert a specified domain name in dotted form (acme.com, for example) to a distinguished name (DN). This conversion doesn't require lookup in Active Directory. The command performs a simple text conversion.

Zone Type

Not applicable

dn_from_domain domain_name

Abbreviation

dnfd

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
domain_name	string	Required. Specifies a dotted domain name (acme.com, for example)

Return Value

This command returns a domain name as a distinguished name.

Examples

dn_from_domain acme.com

This example returns the domain name in this form: dc=acme, dc=com

Related Commands

The following commands convert information from one format to another:

- domain_from_dn converts a domain's distinguished name (DN) to a dotted name.
- dn_to_principal returns the sAMAccount@domain name or user principal name (UPN) for a security principal.

dn_to_principal

Use the dn_to_principal command to specify the distinguished name (DN) of a security principal (user, computer, or group). The command searches Active Directory for the principal, and if the principal is found, the command returns the samaccount@domain name of the principal. Optionally, you can also use this command to return the user principal name (UPN) for the principal.

Zone Type

Not applicable

Syntax

dn_to_principal [-upn] principal_dn

Abbreviation

dntp

Options

This command takes the following option:

Option	Description
-upn	Returns the principal name in user principal name (UPN) format, not the default sAMAccount@domain format.

Arguments

This command takes the following argument:

Argument	Туре	Description
principal_dn	string	Required. Specifies the distinguished name (DN) of a security principal.

Return Value

This command returns the sAMAccount@domain name or (optionally) the user principal name (UPN) of a security principal. If the command doesn't find the specified security principal in Active Directory, it presents a message that it didn't find the principal.

Examples

dn_to_principal cn=brenda butler,cn=users,dc=acme,dc=com

This example returns: brenda.butler@acme.com

Related Commands

The following commands search for security principals in Active Directory:

- principal_to_dn searches Active Directory for a user principal name (UPN) and, if found, returns the corresponding distinguished name (DN).
- principal_from_sid searches Active Directory for an SID and returns the security principal associated with the SID.

domain_from_dn

Use the `domain_from_dn`` command takes a distinguished name (DN) that contains a domain and returns the domain name in dotted form (acme.com, for example). This conversion doesn't require lookup in Active Directory. The command performs a simple text conversion.

Zone Type

Not applicable

Syntax

domain_from_dn dn

Abbreviation

dfdn

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
dn	string	Required. Specifies a distinguished name that contains a domain.

Return Value

This command returns a domain name in dotted form such as acme.com. If the distinguished name doesn't contain domain component (DC) values, the command returns a notice that the DC values are missing.

Examples

dfdn cn=johndoe,cn=users,dc=acme,dc=com

This example returns: acme.com

Related Commands

The following command converts information from one format to another:

dn_from_domain converts a domain's dotted name to a distinguished name.

explain_sd

Use the explain_sd command to specify a security descriptor (SD) in security descriptor description language (SDDL) form and returns a human-readable form of the security descriptor.

Zone Type

Not applicable

Syntax

explain_sd sddl_string

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
sddl_string	string	Required. Specifies a security descriptor in SDDL format.

Return Value

This command returns text that describes the supplied security descriptor in humanreadable form.

Examples

```
explain_sd O:DAG:DAD:AI(A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY)
(A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA)
(OA;;CCDC;bf967aba-0de6-11d0-a285-00aa003049e2;;A0)(OA;;CCDC;bf967a9c-0de6-11d0-a285-
00aa003049e2;;AO)
(OA;;CCDC;bf967aa8-0de6-11d0-a285-00aa003049e2;;PO)(A;;RCLCRPLO;;;AU)(OA;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1200)(A;;CCDC;4828cc14-1
1437-45bc-
9b07-ad6f015e5f28;;A0)(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-
45bc-9b07-
ad6f015e5f28;RU)(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-
a285-00aa003049e2:RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28:RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2:RU)
(OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU)
(OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-
00aa003049e2;RU)
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-
00aa003049e2;ED)
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-
00aa003049e2;ED)
```

```
(OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-00aa003049e2;ED)
(OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RCLCRPLO;;bf967a9c-
0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
(OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS)
(A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;EA)
(A;CIID;LC;;;RU) (A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA)
```

This example returns the security descriptor information in readable form:

```
Owner: Domain Admins
Group: Domain Admins
Dacl: inherit supported,
Allow | | delete, read SD, write DACL, change owner, create child, delete child, list
children, self write, read property, write property, delete tree, list object, control access,
| | System
Allow | | read SD, write DACL, change owner, create child, delete child, list children, self
write, read property, write property, list object, control access, | | | Domain Admins
Allow | | create child, delete child, | User | | Account operators
Allow | | create child, delete child, | Group | | Account operators
Allow | | create child, delete child, | Print-Queue | | Print operators
Allow | | read SD, list children, read property, list object, | | Authenticated users
Allow | | create child, delete child, | inetOrgPerson | | Account operators
Allow | inherit, inherit ony, inherited, | read property, | User-Account-Restrictions |
inetOrgPerson | pre win2k
Allow | inherit, inherit ony, inherited, | read property, | User-Account-Restrictions |
User | pre win2k
Allow | inherit, inherit ony, inherited, | read property, | User-Logon | inetOrgPerson |
pre win2k
Allow | inherit, inherit ony, inherited, | read property, | User-Logon | User | pre win2k
Allow | inherit, inherit ony, inherited, | read property, | Membership | inetOrgPerson |
pre win2k
Allow | inherit, inherit ony, inherited, | read property, | Membership | User | pre win2k
Allow | inherit, inherit ony, inherited, | read property, | General-Information |
inetOrgPerson | pre win2k
Allow | inherit, inherit ony, inherited, | read property, | General-Information | User |
pre win2k
Allow | inherit, inherit ony, inherited, | read property, | RAS-Information | inetOrgPerson
| pre win2k
Allow | inherit, inherit ony, inherited, | read property, | RAS-Information | User | pre
win2k
Allow | inherit, inherit ony, inherited, | read property, | Token-Groups | Computer |
Enterprise Domain Controllers
Allow | inherit, inherit ony, inherited, | read property, | Token-Groups | Group |
Enterprise Domain Controllers
Allow | inherit, inherit ony, inherited, | read property, | Token-Groups | User |
Enterprise Domain Controllers
Allow | inherit, inherit ony, inherited, | read SD, list children, read property, list object,
| | inetOrgPerson | pre win2k
Allow | inherit, inherit ony, inherited, | read SD, list children, read property, list object,
| | Group | pre win2k
```

Related Commands

The following commands enable you to work with security descriptor strings:

- remove_sd_ace removes an access control entry (ACE) from a security descriptor.
- add_sd_ace adds an access control entry to a security descriptor.
- set_sd_owner sets the owner of a security descriptor.

forest_from_domain

Use the forest_from_domain command to retrieve the forest name based on the domain name. The command also stores the retrieved forest name in memory.

Zone Type

Not applicable

Syntax

forest_from_domain [-nocache] <domain>

Abbreviation

ffd

Options

This command takes the following option:

Option	Description
nocache	Use this option to force fetch the forest name from Active Directory instead of reading the forest name from in memory.

Arguments

This command takes the following argument:

Argument	Туре	Description
domain	string	Required. Specifies the domain for which you want to retrieve the forest.

Return Value

This command returns the forest name (in upper case text).

Examples

>forest_from_domain 5027f1d2.test
5027F1D1.TEST
>ffd 5027f1d2.test
5027F1D1.TEST

get_adinfo

Use the get_adinfo command to return information about the current join state for the ADEdit host computer. The command returns information about the joined domain, the joined zone, or the name the host computer is joined under.

Zone Type

Not applicable

Syntax

get_adinfo domain|zone|host

Abbreviation

adinfo

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
domain zone host	string	Required. The possible values are: domain returns the name of the currently joined domain. zone returns the distinguished name of the currently joined zone. host returns the name under which the ADEdit host computer is joined.

Return Value

This command returns a domain name, zone name, or computer name depending on the provided argument.

Examples

get_adinfo domain

This example returns the joined domain. For example: acme.com

get_adinfo zone

This example returns the path to the joined zone. For example:

CN=default, CN=Zones, CN=Acme, CN=Program Data, DC=acme, DC=com

Related Commands

None.

get_bind_info

Use the get_bind_info command to return information about one of ADEdit's currently bound domains. The command can return the name of the domain's forest, the name of the server bound within the domain, the security identifier (SID) of the domain, and the functional level of the domain or the domain's forest.

Zone Type

Not applicable

Syntax

get_bind_info domain forest|server|sid|domain_level|forest_level

Abbreviation

gbi

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
domain	string	Required. Specifies the name of the domain for which to get information.

Argument	Туре	Description
forest server sid domain_ level forest_level	string	Required. The possible values are: forest returns the name of the forest that contains the bound domain. server returns the name of the domain server to which ADEdit is bound in the domain. sid returns the SID (security identifier) of the bound domain. domain_level returns the functional level of the bound domain, represented by an integer value: -1: unknown functional level 0: Windows 2000 Server 1: Windows Server 2003, interim level 2: Windows Server 2003 3: Windows Server 2008 4: Windows Server 2012 R2 7: Windows Server 2016, preview forest_level returns the functional level of the forest that contains the bound domain.

Return Value

This command returns a forest name, server name, security identifier, or functional level depending on the provided argument.

Examples

get_bind_info acme.com server

This example returns the name of the domain controller: adserve02.acme.com

Related Commands

The following commands perform actions related to this command:

- bind binds ADEdit to a domain for subsequent ADEdit commands.
- pop restores the context from the top of ADEdit's context stack to ADEdit.
- push saves ADEdit's current context to ADEdit's context stack.
- show returns the current context of ADEdit, including its bound domains and its currently selected objects.

get_child_zones

Use the get_child_zones command to return a Tcl list of the child zones, computer roles, and computer zones for the currently selected zone stored in memory. The options to return child zones and computer roles are only applicable when you are working with hierarchical zones.

In classic zones, you can use this command to return a Tcl list of classic-computer zones under the currently selected classic zone. A classic-computer zone is a special zone type that contains a single computer to enable computer-level role assignments. The classic zone must have the corresponding computer object and that computer must be identified as a classic-computer zone to support computer-specific role assignments.

Because classic zones do not have child zones or computer roles, executing get_child_zones with the -crole or -tree option without the computer option returns an empty list.

Zone Type

Classic and hierarchical

Syntax

get_child_zones [-tree] [-crole] [-computer]

Abbreviation

qcz

Options

This command takes any of the following options:

Option	Description
-tree	Returns a Tcl list of the current zone's child zones. If the currently selected zone is a classic zone, this option is ignored.
-crole	Returns a Tcl list of the current zone's hosted computer roles. If the currently selected zone is a classic zone, this option is ignored.
-computer	Returns a Tcl list of the current zone's computer-specific zones. For classic zones, this option returns a list of classic-computer zones.

If you don't specify an option and the currently selected zone is a hierarchical zone, get_child_zones returns the complete list of child zones including computer roles and computerspecific "zones" that enable computer-specific overrides. If you don't specify an option and the currently selected zone is a classic zone, get_child_zones returns the list of classic-computer zones.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of child zones, computer roles, or computer-specific zones depending on the options used.

Examples

get_child_zones

This example returns:

```
{CN=cz1,CN=Zones,CN=Acme,CN=Program Data,DC=eel,DC=nest}
{CN=cz2,CN=Zones,CN=Acme,CN=Program Data,DC=eel,DC=nest}
{CN=global,CN=Zones,CN=Acme,CN=ProgramData,DC=eel,DC=nest/oracleServers}
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the zone to work with:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory as the currently selected zone.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates administrative rights to a specified user or group.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

get_dz_commands

Use the <code>get_dz_commands</code> command to check Active Directory and return a Tcl list of UNIX command objects defined within the currently selected zone. If executed in a script, this command does not output its list to <code>stdout</code>, and no output appears in the shell where the script is executed. Use the <code>list_dz_commands</code> command to output to <code>stdout</code>.

You can only use the get_dz_commands command if the currently selected zone is a classic4 or hierarchical zones. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_dz_commands

Abbreviation

gdzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of UNIX commands defined in the currently selected zone.

Examples

get_dz_commands

This example returns the list of commands: root_any

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command to work with:

- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

get_dzc_field

Use the get_dzc_field command to return the value for a specified field from the currently selected command object that is stored in memory.

The get_dzc_field command does *not* query Active Directory for the command. If you change field values using ADEdit without saving the command to Active Directory, the field value you retrieve using get_dzc_field won't match the same field value for the command stored in Active Directory.

You can only use the get_dzc_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_dzc_field field

Abbreviation

qdzcf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are: description: Returns text describing the UNIX command. cmd: Returns the restricted shell command string or strings. path: Returns the path to the command's location. form: Returns an integer that indicates whether the cmd and path strings use wild cards (0) or a regular expression (1). dzdo_runas: Returns a list of users and groups that can run this command under dzdo version of sudo. Users may be listed by user name or user ID (UID). dzsh_runas: Returns a list of users and groups that can run this command in a restricted shell environment (dzsh). Users can be listed by user name or UID. You cannot get this field value if the selected zone is a classic4 zone. keep: Returns a comma-separated list of environment variables from the current user's environment to delete. add: Returns a comma-separated list of environment variables from the current user's environment to delete. add: Returns a comma-separated list of environment variables. pri: Returns an integer that specifies the command priority for the restricted shell command object. umask: Returns an integer that defines who can execute the command. flags: Returns an integer that specifies a combination of different properties for the command. createTime: Returns the time and date this command was created, returned in generalized time format. modifyTime: Returns the time and date this command was last modified, returned in generalized time format. dn: Returns the command's distinguished name. selinux_role: Returns the SELinux role used when constructing a new security context for command execution (tree zone only). selinux_type: Returns the SELinux type used when constructing a new security context for command execution (tree zone only). digest: Returns the SHA-2 digest to verify the file checksum before command execution. Note that selinux_role and selinux_type are only supported on Red Hat Enterprise Linux systems and effective only on systems with SELinu

Getting the cmd and path field values

If you specify the cmd and path fields, the return value can be a string that uses wild cards (*, ?, and !), or a regular expression. If the cmd and path strings use wild cards, an asterisk (*) matches zero or more characters, a question mark (?) matches exactly one character, and the exclamation mark (!) negates matching of the specified string.

For both the cmd and path fields, the form field indicates whether the specified string is interpreted as a regular expression or as a string that includes wild cards.

Getting environment variable field values

If you specify the keep, del, or add field, the return value is a comma-separated list of environment variables. The keep, del, and add fields control the environment variables used by the commands specified by the cmd string. The keep and del settings are mutually exclusive:

- The keep field only takes effect if the flag 16 is included in the setting for the flag field.
- The del field only takes effect if the flag 16 is not included in the setting for the flag field.

Any environment variables kept or deleted are in addition to the default set of the user's environment variables that are either retained or deleted. The default set of environment variables to keep is defined in the dzdo.env_keep configuration parameter in the centrifydc.conf file. The default set of environment variables to delete is defined in the dzdo.env_delete configuration parameter in the centrifydc.conf file.

The add field returns the environment variables added to the final set of environment variables resulting from the keep or del fields.

Getting the command priority field value

If you specify the pri field, the return value indicates the command priority when there are multiple matches for command strings in a command object. If there are multiple commands specified by this command object, the pri field specifies the specifies their relative priority. The higher the value returned by this field, the higher the command's priority.

Getting the umask field value

If you specify the umask field, the return value is a 3-digit octal value that defines who can read, write, and execute the selected command object. The three digits of the umask field specify the read, write, or execute permission for the file owner, group, and other users. The left digit defines the owner execution rights, the middle digit defines the group execution rights, and the right digit defines execution rights for other users. Each digit is a combination of binary flags, one flag for each right as follows:

- 4 is read
- 2 is write
- 1 is execute

These values are added together to define the rights available for each entity. For example, a umask value of 600 indicates read and write permission (4+2) for the owner, but no permissions for the group or other users. Similarly, a umask value of 740 indicates read, write, execute permissions (4+2+1) for the owner, read permissions for the group, but no permissions for other users.

Getting command properties from the flags field value

If you specify the flags field, the return value is an integer that defines a combination of binary flags, with one flag for each of the following properties:

- 1-Prevents nested command execution. If this flag value is not set, nested command execution is allowed.
- 2-Requires authentication with the user's password.
- **4**—Requires authentication with the run-as user's password.

- 8-Preserves group membership. If this flag value is not set, group membership is not preserved.
- 16—Resets environment variables for the command, deleting the variables specified in the dzdo.env_delete parameter and keeping the variables specified in the keep field. If this flag is not set, the command removes the unsafe environment variables specified in the dzdo.env_delete parameter along with any additional environment variables specified by the del field.
- **32**—Requires multi-factor authentication to execute the command.
- **64**—Prevents navigation up the path hierarchy when executing the command.

These values are added together to define the value for the flags field. For example, a flags field value of 11 indicates that nested command execution is not allowed (1), the command requires authentication using the user's password (2), and the user's group membership should be preserved (8). The value returned is the sum of these flags (1+2+8).

Return Value

This command returns a field value, which varies in type depending on the data type stored by the field.

Examples

get_dzc_field dzdo_runas

returns: root

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command to work with:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

get_group_members

Use the get_group_members command to check the Active Directory group membership for a specified group. You can use this command to return a Tcl list of the users in a specified group in one of two ways:

 With the -ad option to return a simplified list of the distinguished names that are members of the specified group. The -ad option lists the users and groups that are members of the specified group without recursively expanding the group membership of any nested group.

Without the -ad option to return a complete list of users that are members of the specified group. If you don't specify the -ad option, the command recursively expands the groups that are members of the specified group to identify all of the users in any nested group.

Zone Type

Not applicable

Syntax

get_group_members [-ad | -upn] group_UPN

Abbreviation

ggm

Options

This command takes the following options:

Option	Description
-ad	Returns the distinguished names for the users and groups that are members of the specified group. This option does not expand the group membership to list users who are members of nested groups.
-upn	Returns user names in user principal name (UPN) format for all of the users that are members of the specified group. This option expands the group membership of the specified group to include users who are members of nested groups. If you don't specify this option, a complete list of user names is returned using the default sAMAccount@domain format.

Arguments

This command takes the following argument:

Argument	Туре	Description
group_UPN	string	Required. Specifies the user principal name (UPN) of the group to for which you want to return user membership.

Return Value

This command returns a Tcl list of group members.

Examples

get_group_members poweradmins@acme.com

This example returns the complete list of users who are members of the poweradmin@acme.com group, including users who are members of any nested groups, using the samaccountName@domain.name format. For example:

ADEdit Command Reference

martin.moore@acme.com rachel.roberts@acme.com frank.smith@acme.com

The following example returns the distinguished names of the users and groups that are members of the demo-qa-lab@acme.com group without listing the members of any nested groups.

```
get_group_members -ad demo-qa-lab@acme.com
```

For example, this command returns the list of users and groups without expanding the group membership for the LabAdmins and QA groups:

```
CN=LabAdmins,CN=Users,DC=acme,DC=com {CN=Chris Howard,CN=Users,DC=acme,DC=com} CN=QA,CN=Users,DC=acme,DC=com CN=frank.smith,CN=UsersDC=acme,DC=com
```

Related Commands

The following commands perform actions related to this command:

- joined_get_user_membership checks Active Directory through adclient and returns a Tcl list of groups that a user belongs to.
- joined_user_in_group checks Active Directory through adclient to see if a user is in a group.
- get_effective_groups checks Active Directory and returns a Tcl list of groups a user belongs to.

get local group profile field

Use the get_local_group_profile_field command to display the value of the specified field for the currently selected local UNIX or Linux group that has a profile defined in the current zone. Before executing this command, you must select a local group by executing the select_local_group_profile command.

Zone Type

Hierarchical only.

Syntax

get_local_group_profile_field field_name

Abbreviation

glgpf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field_name		Required. Specifies the local group field to retrieve. The data type depends on the field. The possible values are: gid: The numeric group identifier. name: The UNIX name of the group. member: The UNIX name of at least one group member. profileflag: The value of the group's profile flag as set in the group object in the zone. For the group to be managed by the agent, the profile flag must be set to 1 or 3.If set to 1, the group profile is enabled. If the group profile is complete and the profile flag is set to 1, the profile will be installed or updated in /etc/group at the next local account refresh interval. If set to 3, the group profile is removed from /etc/group at the next local account refresh interval. dn: The distinguished name of the group. createTime: The creation time of the group profile. modifyTime: The most recent modification time of the group profile. You can also specify AIX extended attributes as the field to get an extended attribute value for a group. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be retrieved by specifying aix.admin as the field.

Return Value

This command returns the value of the specified field.

Examples

The following example returns the GID of the currently selected local group in the zone.

```
get_local_group_profile_field gid
```

The following example returns the value of the profile flag for the currently selected local group. In this example, the profile flag is 1, meaning that the group profile in /etc/group will be updated with the latest settings from the local account zone object at the next local account refresh interval.

```
get_local_group_profile_field profileflag
```

If the current group is on AIX, you can get group extended attributes and values. For example, to find out if the current group is an administrative group, you can get the admin extended attribute:

```
get_local_group_profile_field aix.admin
true
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.

- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

get_local_groups_profile

Use the $get_local_groups_profile$ command to return a TCL list of profiles for local groups that are defined in the currently selected zone.

Zone Type

Hierarchical only.

Syntax

get_local_groups_profile

Abbreviation

glgp

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

If you run this command from the command line, it returns a TCL list of profiles for local groups that are defined in the currently selected zone. The list is sorted by group UNIX name.

If you run this command in a script, no output is returned to stdout, and no output appears in the shell where the script is executed. To return output to stdout from a script, use the list_local_groups_profile command.

Examples

The following example shows a TCL list of profiles for local groups that are defined in the current zone.

```
get_local_groups_profile
lg001 lg002 lg003 lg005 lg006 lg007
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

get_local_user_profile_field

Use the get_local_user_profile_field command to display the value of the specified field for the currently selected local UNIX or Linux user that has a profile defined in the current zone. Before executing this command, you must select a local user by executing the select_local_user_profile command.

Zone Type

Hierarchical only.

Syntax

get_local_user_profile_field field_name

Abbreviation

glupf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field_name	string	Required. Specifies the local user profile field to retrieve. The possible values include: uid: The user's numeric identifier. gid: The GID of the user's primary group. shell: The local user's default shell on the local computer. Possible values are: /bin/bash, /bin/csh, /bin/sh, /bin/sh, /bin/tcsh, %. home: The local user's default home directory on the local computer. gecos: General information about the local user account. uname: The UNIX name of the user. dn: The distinguished name of the user. createTime: The creation time of the user profile. modifyTime: The most recent modification time of the user profile. profileflag: The value of the user's profile flag as set in the user object in the zone. For the user to be managed by the agent, the profile flag must be set to 1, 2, or 3. You can also specify AIX extended attributes as the field to get an extended attribute value for a user. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be retrieved by specifying aix.admin as the field.

Return Value

This command returns the value of the specified field.

Examples

The following example returns the UID of the currently selected local user in the zone. get_local_user_profile_field uid

The following example returns the value of the profile flag for the currently selected local user. In this example, the profile flag is 2, meaning that the user profile in /etc/passwd will be updated with the latest settings from the local account zone object at the next local account refresh interval, but the password entry in /etc/passwd will be set to !! so that the user cannot log into the local computer.

```
get_local_user_profile_field profileflag
2
```

For more information about the meaning of the profile flag value, see set_local_user_profile_field.

You can also specify AIX extended attributes as the field to get an extended attribute value for a user. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be retrieved by specifying aix.admin as the field.

```
get_local_user_profile_field aix.admin
false
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.

set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user
that has a profile defined in the current zone.

get_local_users_profile

Use the get_local_users_profile command to return a TCL list of profiles for local users that are defined in the currently selected zone.

Zone Type

Hierarchical only.

Syntax

get_local_users_profile

Abbreviation

glup

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

If you run this command from the command line, it returns a TCL list of profiles for local users that are defined in the currently selected zone. The list is sorted by user UNIX name.

If you run this command in a script, no output is returned to stdout, and no output appears in the shell where the script is executed. To return output to stdout from a script, use the list_local_users_profile command.

Examples

The following example shows a TCL list of profiles for local users that are defined in the current zone.

```
get_local_users_profile
db2011 db2012 lu001 lu002 lu003 lu004 lu006 lu007 lu008 lu009 lu012 lu013
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.

- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

get nis map

Use the get_nis_map command to return a Tcl list containing the entries for the currently selected NIS map stored in memory. This command does not return the contents of the comment field. If you want to retrieve the comment, use get_nis_map_with_comment instead.

The get_nis_map command does *not* query Active Directory for this NIS map, but changing map entries using add_map_entry and delete_map_entry changes both selected NIS map in memory and the corresponding NIS map in Active Directory so their contents should match.

Zone Type

Not applicable

Syntax

get_nis_map

Abbreviation

gnm

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of NIS map entries. Each entry contains:

- The key
- The instance number of the key (there may be multiple entries with the same key)
- The value

Each entry component is separated from the next by a colon (:).

Examples

get_nis_map

This example returns the list of map entries. For example:

{Finance:1: Hank@acme.com,jane@acme.com,joe@acme.com} {Mktg:1: Mike@acme.com,Sue@acme.com}

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and manage NIS maps:

- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map's entries:

- add_map_entry or add_map_entry_with_comment adds an entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- get_nis_map_with_comment returns a Tcl list of the entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout of the entries in the currently selected NIS map.

get_nis_map_field

Use the <code>get_nis_map_field</code> command to return the value for a specified field from the currently selected NIS map stored in memory. The <code>get_nis_map_field</code> command does not query Active Directory for the NIS map. If you've changed field values using ADEdit without saving the NIS map to Active Directory, the field value you retrieve using <code>get_nis_map_field</code> won't match the same field value for the NIS map stored in Active Directory.

Zone Type

Not applicable

Syntax

get_nis_map_field field

Abbreviation

gnmf

Options

This command takes no options.

Arguments

This command takes the following argument, which is case-sensitive:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are: createTime : Specifies the time and date this NIS map was created, returned in generalized time format modifyTime : Specifies the time and date this NIS map was last modified, returned in generalized time format dn : Specifies the NIS map's distinguished name

Return Value

This command returns a field value, which varies in type depending on the data type stored by the field.

Examples

get_nis_map_field createTime

This example returns the value of the createTime field. For example: 20110525163718.0Z

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and manage NIS maps:

- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map's entries:

- add_map_entry or add_map_entry_with_comment adds an entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- get_nis_maps or get_nis_map_with_comment returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_map or list_nis_map_with_comment lists to stdout of the entries in the currently selected NIS map.

get_nis_map_with_comment

Use the <code>get_nis_map</code> command to return a Tcl list containing the entries for the currently selected NIS map stored in memory. This command includes the comment field for map entries. The <code>get_nis_map_with_comment</code> command does <code>not</code> query Active Directory for this NIS map, but changing map entries using <code>add_map_entry</code> and <code>delete_map_entry</code> changes both selected NIS map in memory and the corresponding NIS map in Active Directory so their contents should match.

Zone Type

Not applicable

Syntax

get_nis_map_with_command``

Abbreviation

gnmwc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of NIS map entries. Each entry contains:

- The key
- The instance number of the key (there may be multiple entries with the same key)
- The value
- The comment

Each entry component is separated from the next by a colon (:).

Examples

get_nis_map_with_comment

This example returns the map entries including comments:

```
{Finance:1: Hank@acme.com,jane@acme.com,joe@acme.com: Finance dept staff}{Mktg:1: Mike@acme.com,Sue@acme.com: Marketing dept staff}
```

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and manage NIS maps:

- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map's entries:

- add_map_entry or add_map_entry_with_comment adds an entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_map or list_nis_map_with_comment lists to stdout of the entries in the currently selected NIS map.

get_nis_maps

Use the <code>get_nis_maps</code> command to check Active Directory and return a Tcl list of NIS maps defined within the currently selected zone. If executed in a script, this command does not output its list to <code>stdout</code>, and no output appears in the shell where the script is executed. Use <code>list_nis_maps</code> to output the list of NIS maps to <code>stdout</code>.

Zone Type

Not applicable

Syntax

get_nis_maps

Abbreviation

gnms

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of NIS maps defined in the currently selected zone.

Examples

get_nis_maps

This example returns the list of NIS maps: Aliases Printers Services

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage NIS maps:

- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- list_nis_maps lists to stdout all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the other commands to work with that map's entries.

get_object_field

Use the <code>get_object_field</code> command to return the value of a specified field from the currently selected Active Directory object stored in memory. The <code>get_object_field</code> command does not query Active Directory for the object. If you change field values using ADEdit without saving the object to Active Directory, the field value you retrieve using <code>get_object_field</code> won't match the same field value for the object stored in Active Directory.

Zone Type

Not applicable

Syntax

get_object_field field

Abbreviation

qof

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values include any attribute that can be defined for the type of object currently selected. Special values are: sid : The object's security identifier. guid : The object's globally unique identifier. sd : The object's security descriptor. createTime : The time and date this object was created, returned in generalized time format. modifyTime : The time and date this object was last modified, returned in generalized time format. dn : The object's distinguished name.

Return Value

This command returns a field value, which varies in type depending on the data type stored by the field.

Examples

get_object_field guid

This example returns the globally unique identifier for an object. For example:

44918ee7-80bc-4741-95d3-dd189e235ab8

Related Commands

Before you use this command, you must have a currently selected Active Directory object stored in memory. The following commands enable you to view and select the object to work with:

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of matching objects.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object with its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field_names returns a Tcl list of the field names (attributes) for the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.

- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_field sets a field value in the currently selected Active Directory object.

get_object_field_names

Use the <code>get_object_field_names</code> command to return a Tcl list of the field names for each of the fields—the object attributes—of the currently selected Active Directory object. The <code>get_object_field_names</code> command does not query Active Directory for the object's field names but looks at the selected object as it is stored in ADEdit memory.

Zone Type

Not applicable

Syntax

get_object_field_names

Abbreviation

gofn

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of field names.

Examples

select_object "cn=amy adams,cn=users,dc=ajax,dc=com"get_object_field_names

This example returns the field names associated with the selected user Amy Adams:

_SID _dn _objectCategory _server accountExpires cn codePage countryCode distinguishedName gidNumber instanceType lastLogonTimestamp loginShell msDS-MembersForAzRoleBL msSFU30NisDomain

nTSecurityDescriptor name objectCategory objectClass objectGUID objectSid primaryGroupID pwdLastSet sAMAccountName sAMAccountType uSNChanged uSNCreated uid uidNumber unixHomeDirectory

userAccountControl userPrincipalName whenChanged whenCreated

Related Commands

Before you use this command, you must have a currently selected Active Directory object stored in memory. The following commands enable you to view and select the object to work with:

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects that match the search criteria.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object and its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_field sets a field value in the currently selected Active Directory object.

get_objects

Use the get_objects command to perform an LDAP search of Active Directory and return a Tcl list of the distinguished names (DNs) of the objects that match the search criteria. You specify a container in Active Directory where the search begins and a standard LDAP filter that defines the objects you're searching for.

You can control the nature of the search through options that specify whether to use the global catalog (GC) for a forest-wide search, the number of levels deep for the search to go below the beginning container of the search, and the maximum number of objects for the get_objectscommand to return.

Zone Type

Not applicable

Syntax

get_objects [-gc] [-depth one|sub] [-limit limit] [-f forest] base filter

Abbreviation

go

Options

This command takes the following options:

Option	Description
-gc	Requests a forest-wide search using a global catalog. For this option to work, ADEdit must be bound to a global catalog domain controller using the bind command with the -gc option. If you don't specify this option, the search is only within the currently bound domains.
-depth one sub	Specifies how deep to search. This option must be followed by one of two values: one : Specifies that the search will search only through objects immediately below the container specified by the argument <i>base</i> . sub : Specifies that the search will be full-depth, starting at the container specified by <i>base</i> and continuing through all sub-containers below that level. If you don't specify this option, the search defaults to the value one .
-limit <i>limit</i>	Limits the number of objects returned by the search to the positive integer specified by <i>limit</i> . If you don't specify this option, the search returns all matching objects without limit.
-f forest	Specifies the forest to search. If you bind ADEdit to multiple forests, you can use this option to identify a specific forest to search for objects matching the criteria you specify.

Arguments

This command takes the following arguments:

Argument	Туре	Description
base	DN	Required. Specifies the distinguished name of an Active Directory container in which to start the search. If you want to perform a forest-wide search using the global catalog option but do not specify the forest to search, use an empty string as the base argument. For example: get_objects -gc -depth sub "" (cn=demo). You should not use an empty string as the starting point for a search if you bind to multiple forests. If you bind to multiple forests, you should always specify the forest to search.
filter	LDAP filter	Required. A string that uses standard LDAP filter syntax to specify criteria for the search.

Return Value

This command returns a Tcl list of the distinguished names of the objects matching the search criteria.

Examples

get_objects "cn=users,dc=acme,dc=com" (objectclass=*)

This example returns a list of distinguished name matching the objectclass filter:

CN=Builtin,DC=acme,DC=com CN=Computers,DC=acme,DC=com {OU=Domain Controllers,DC=acme,DC=com} CN=ForeignSecurityPrincipals,DC=acme,DC=com CN=Infrastructure,DC=acme,DC=com CN=LostAndFound,DC=acme,DC=com {CN=NTDS Quotas,DC=acme,DC=com} {CN=Program Data,DC=acme,DC=com} CN=System,DC=acme,DC=com CN=Users,DC=acme,DC=com

Related Commands

The following commands enable you to view and select the object to work with:

- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object and its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_field sets a field value in the currently selected Active Directory object.

get pam apps

Use the get_pam_apps command to check Active Directory and return a Tcl list of plug-in authentication module (PAM) applications defined within the currently selected zone. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed. Use list_pam_apps to output the list of PAM applications to stdout.

You can only use the get_pam_apps command to return information about PAM applications if the currently selected zone is a classic4 or hierarchical zones. The command does not work for other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_pam_apps

Abbreviation

gpam

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of PAM applications defined in the currently selected zone. Each element in the string is the name of a PAM application.

Examples

get_pam_apps

This example returns all of the PAM application rights for the selected zone:

dzssh-all dzssh-direct-tcpip dzssh-exec dzssh-scp dzssh-sftp dzssh-shell dzssh-subsystem dzssh-tcpip-forward dzssh-tunnel dzssh-x11-forwarding loginall ssh sshd

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. After you have a zone stored in memory, you can use the following commands to view and select the PAM application to work with:

- list_pam_apps lists to stdout the PAM application rights in the current zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application from Active Directory and stores it in memory.

After you have a PAM application stored in memory, you can use the following commands to work with that PAM application's attributes, delete the PAM application, or save information for the PAM application:

- delete_pam_app deletes the selected PAM application from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application.
- save_pam_app saves the selected PAM application with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application.

get_pam_field

Use the <code>get_pam_field</code> command to return the value of a specified field for the currently selected plug-in authentication module (PAM) application object stored in memory. The <code>get_pam_field</code> command does not query Active Directory for the PAM application. If you change field values using ADEdit without saving the PAM application to Active Directory, the field value you retrieve using <code>get_pam_field</code> won't match the same field value for the PAM application stored in Active Directory.

You can only use the get_pam_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_pam_field field

Abbreviation

gpf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are: application : The name of the application allowed to use adclient's PAM authentication service. The name can be literal, or it can contain? or * wildcard characters to specify multiple applications. description : Text describing the PAM application. createTime : The time and date this PAM application was created, returned in generalized time format. modifyTime : The time and date this PAM application was last modified, returned in generalized time format. dn : the PAM application's distinguished name.

Return Value

This command returns a field value. The data type for this value depends on the field specified.

Examples

get_pam_field application

This example returns the contents of the application field:

ftp

The selected PAM application object specifies ftp can authenticate using adclient.

Related Commands

Before you use this command, you must have a currently selected PAM application object stored in memory. The following commands to view and select the PAM application to work with:

- get_pam_apps returns a Tcl list of PAM application rights in the current zone.
- list_pam_apps lists to stdout the PAM application rights in the current zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory.

After you have a PAM application stored in memory, you can use the following commands to work with that PAM application's attributes, delete the PAM application, or save information for the PAM application:

- delete_pam_app deletes the selected PAM application right from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application right.
- save_pam_app saves the selected PAM application right with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application right.

get_parent_dn

Use the get_parent_dn command to specify an LDAP path using a distinguished name (DN) and return the parent of the path. This command removes the first element from the distinguished name and returns the rest of the DN.

Zone Type

Not applicable

Syntax

get_parent_dn DN

Abbreviation

gpd

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
DN	string	Required. Specifies a distinguished name.

Return Value

This command returns a distinguished name that is the parent of the supplied distinguished name.

Examples

get_parent_dn CN=global,CN=Zones,CN=Acme,DC=acme,DC=com

This example returns: CN=Zones, CN=Acme, DC=acme, DC=com

Related Commands

The following command performs actions related to this command:

get_rdn returns the relative distinguished name of a specified LDAP path.

get_pending_zone_groups

Use the get_pending_zone_groups command to check Active Directory and return a Tcl list of pending import groups for the currently selected zone. Pending import groups are group profiles that have been imported from Linux or UNIX computers, but not yet mapped to any Active Directory group. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed. Use list_pending_zone_groups to output the list to stdout.

Zone Type

Classic and hierarchical

Syntax

get_pending_zone_groups

Abbreviation

gpzg

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of pending import group profiles that have been imported into the currently selected zone. Each entry in the list contains the following fields, separated by colons:

- Distinguished name (DN) of the pending import group as it is stored in Active Directory. The distinguished name for each pending import group includes a prefix that consists of "PendingGroup" and the globally unique identifier (GUID) for the group.
- UNIX group name.
- Numeric group identifier (GID).

Examples

get_pending_zone_groups

The command returns output in the form of:

DN:group_name:gid

This sample command might return output similar to the following:

```
CN=PendingGroup_573135e7-edd9-46b9-9cbd-c839570a90c8,CN=Groups, CN=bean_pz,CN=Zones,CN=Acme,DC=win2k3,DC=test:root:0
CN=PendingGroup_7878065a-4d2f-4749-8f3b-6ffe24303f6a,CN=Groups, CN=bean_pz,CN=Zones,CN=Acme,DC=win2k3,DC=test:unixgrp:5000
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following command performs actions related to this command:

- select_object retrieves the specified Active Directory object and its attributes from Active Directory and stores
 the object in memory.
- get_object_field enables you to view and work with the pending import group.

get_pending_zone_users

Use the <code>get_pending_zone_users</code> command to check Active Directory and return a Tcl list of pending import users for the currently selected zone. Pending import users are user profiles that have been imported from Linux or UNIX computers, but not yet mapped to any Active Directory user. If executed in a script, this command does not output its list to <code>stdout</code>, and no output appears in the shell where the script is executed. Use <code>list_pending_zone_users</code> to output the list to <code>stdout</code>.

Zone Type

Classic and hierarchical

Syntax

get_pending_zone_users

Abbreviation

gpzu

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of pending import user profiles that have been imported into the currently selected zone. Each entry in the list contains the following fields, separated by colons:

ADEdit Command Reference

- Distinguished name (DN) of the pending import user as it is stored in Active Directory. The distinguished name
 for each pending import user includes a prefix that consists of "PendingUser" and the globally unique identifier
 (GUID) for the user.
- UNIX user name.
- Numeric user identifier (UID).
- Numeric primary group identifier (GID).
- Personal information from the GECOS field.
- Home directory.
- Default login shell.

Examples

```
get_pending_zone_users
```

This sample command might return output similar to the following:

```
CN=PendingUser_09024f3a-6abc-4666-a127-722f9fe0e0bf,CN=Users,CN=finance,CN=Zones,CN=Acme,DC=win2k3,DC=test:root:0:0:root:/root:/bin/bashCN=PendingUser_0b9fe038-1325-438f-8529-cb190ab5914a,CN=Users,CN=finance,CN=Zones,CN=Acme,DC=win2k3,DC=test:bean:6001:5000:bean.zhang:/home/bean:/bin/bash
```

Before you use this command, you must have a currently selected zone stored in memory. The following command performs actions related to this command:

- select_object retrieves the specified Active Directory object and its attributes from Active Directory and stores
 the object in memory.
- get_object_field enables you to view and work with the pending import group.

get_pwnam

Use the get_pwnam command to look up a UNIX user name in the /etc/passwd file on the ADEdit host computer. If there's an entry for the specified user name, the command returns the profile values of that entry as a Tcl list. The get_pwnam command uses the NSS layer to perform the lookup operation. You can use the command to look up information for any user in the /etc/passwd file, including root.

Zone Type

Not applicable

Syntax

get_pwnam unix_name

Abbreviation

gpn

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
unix_name	string	Required. Specifies the UNIX user name to search for in the /etc/passwd file.

Return Value

This command returns a Tcl list of user profile attributes for a specified user if the specified user name is found in the local /etc/passwd file. If the command doesn't find the specified user, it a "User not found" message.

Examples

get_pwnam adam

This example returns the profile for the UNIX user adam:

adam x 500 500 {Adam Andrews} /home/adam /bin/bash

Related Commands

The following command performs actions related to this command:

getent_passwd returns a Tcl list of all entries in the local /etc/passwd file.

get_rdn

Use the get_rdn command to specify an LDAP path using a distinguished name (DN) and return the relative distinguished name. This command returns only the first element of the supplied distinguished name.

Zone Type

Not applicable

Syntax

get_rdn DN

Abbreviation

grdn

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
DN	string	Required. Specifies a distinguished name.

Return Value

This command returns the first element of the supplied distinguished name.

Examples

get_rdn CN=global,CN=Zones,CN=Acme,DC=acme,DC=com

This example returns: CN=global

Related Commands

The following command performs actions related to this command:

get_parent_dn returns the parent distinguished name of a specified LDAP path.

get_role_apps

Use the get_role_apps command to return a Tcl list of PAM application rights associated with the currently selected role.

The get_role_apps command does *not* query Active Directory for the role. If you change the PAM applications associated with the current role using ADEdit without saving the role to Active Directory, the PAM applications you retrieve using get_role_apps won't match the same PAM applications for the role as stored in Active Directory.

You can only use the get_role_apps command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_role_apps

Abbreviation

grap

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of PAM applications associated with the currently selected role. Each PAM application in the list shows the application name followed by a slash (/) and the zone in which the PAM application is defined.

Examples

get_role_apps

This example returns the list of PAM applications for the currently selected role: ftp/cz1

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands to view and select the role to work with:

- get_roles returns a Tcl list of roles in the currently selected zone.
- list_roles lists to stdout the roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role's attributes, delete the role, or save information for the role:

- add_command_to_role adds a UNIX command to the currently selected role.
- add_pamapp_to_role adds a PAM application to the currently selected role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_commands returns a Tcl list of the UNIX commands associated with the currently selected role.
- get_role_field reads a field value from the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the currently selected role.
- remove_command_from_role removes a UNIX command from the currently selected role.
- remove_pamapp_from_role removes a PAM application from the currently selected role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

get_role_assignment_field

Use the get_role_assignment_field command to return the value for a specified field from the currently selected role assignment stored in memory. The get_role_assignment_field command does *not* query Active Directory

for the role assignment. If you change field values using ADEdit without saving the role assignment to Active Directory, the field value you retrieve using get_role_assignment_field won't match the same field value for the role assignment stored in Active Directory.

You can only use the get_role_assignment_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_role_assignment_field field

Abbreviation

graf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are:
		assignee: Returns user display name in format specific to type of logged in user.
		customAttr: Returns the custom text strings set for the role assignment.
		customAttr: Returns the custom text strings set for the role assignment.
		description: Returns the description for the role assignment.
		dn: Returns the role assignment's distinguished name.
		from : Returns the starting date and time for the role assignment. The start and end dates and times are expressed in standard UNIX time. You can use the Tcl clock command to manipulate these values. A value of 0 indicates no date or time is set for the role assignment.
		modifyTime : Returns the time and date this role assignment was last modified, returned in generalized time format.

Argument	Туре	Description
		ptype : Returns a letter or symbol that indicates the account type associated with a role assignment. You can use the explain_ptype command to translate the returned value into a text string that describes the account type.
		role: Returns the name of the role and the zone in which the role is defined.
		to: Returns the ending date and time for the role assignment.

Return Value

This command returns a field value. The data type depends on the field specified.

Examples

This example returns the role name (root) and the zone where the role is defined (global): get_role_assignment_field role

root/global

This example returns the assignee display name in the appropriate format.

get_role_assignment_field assignee

■ For AD user/group:

CN=dc1,CN=Users,DC=sayms,DC=local

■ For trusted forest AD user/group:

CN=S-1-5-21-4259971489-770964042-439865176-1106,CN=ForeignSecurityPrincipals,DC=sayms,DC=local

For local uid:

#56789@localhost

For local user:

localuser1@localhost

For local group:

%localgroup1@localhost

Related Commands

Before you use this command, you must have a currently selected role assignment stored in memory. The following commands to view and select the role assignment to work with:

get_role_assignments

Use the <code>get_role_assignments</code> command to check Active Directory and return a Tcl list of role assignments defined within the currently selected zone. If executed in a script, this command does not output its list to <code>stdout</code>, and no output appears in the shell where the script is executed. Use <code>list_role_assignments</code> to output the list to <code>stdout</code>.

If you do not specify an option, the command returns the current users and groups in the zone with a role assignment.

You can only use the get_role_assignments command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_role_assignments [-upn] [-user] [-group] [-invalid]

Abbreviation

gra

Options

This command takes any one of the following options:

Option	Description
-upn	Returns user names in user principal name (UPN) format, not the default sAMAccount@domain format.
-user	Returns a Tcl list of the current users in the zone with a role assignment.
-group	Returns a Tcl list of the current groups in the zone with a role assignment.
-invalid	Returns a Tcl list of any invalid role assignments in the zone. For example, this option would return role assignment for a group or user that no longer exists.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of role assignments defined in the currently selected zone. Each role assignment includes the samaccount@domain name or the user principal name of the user or group to whom the role is assigned, the name of the role assigned, and the zone in which the role is defined. These three pieces of data are separated from each other by a slash (/).

Examples

get_role_assignments

This example returns the list of role assignments:

poweradmins@acme.com/root/global proj_admins@acme.com/login/global

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. After you have a zone stored in memory, you can use the following commands to view and select the role assignment to work with:

- list_role_assignments lists to stdout the role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment's attributes, delete the role assignment, or save information for the role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the currently selected role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the currently selected role assignment.
- write_role_assignment saves the selected role assignment to a file.

get_role_commands

Use the get_role_commands command to return a Tcl list of UNIX commands associated with the currently selected role. The get_role_commands command does *not* query Active Directory for the role. If you change commands associated with the current role using ADEdit without saving the role to Active Directory, the commands you retrieve using get_role_commands won't match the same commands for the role stored in Active Directory.

You can only use the get_role_commands command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_role_commands

Abbreviation

grc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of commands associated with the currently selected role. Each command in the list shows the command name followed by a slash (/) and the zone in which the command is defined.

Examples

get_role_commands

This example returns the list of commands:

pwd/global ls/global cd/childzone1

Related commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role's attributes, delete the role, or save information for the role:

- add_command_to_role adds a UNIX command to the currently selected role.
- add_pamapp_to_role adds a PAM application to the currently selected role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications associated with the currently selected role.
- get_role_field reads a field value from the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the currently selected role.
- remove_command_from_role removes a UNIX command from the currently selected role.
- remove_pamapp_from_role removes a PAM application from the currently selected role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

get_role_field

Use the <code>get_role_field</code> command to return the value for a specified field from the currently selected role stored in memory. The <code>get_role_field</code> command does <code>not</code> query Active Directory for the role. If you change field values using ADEdit without saving the role to Active Directory, the field value you retrieve using <code>get_role_field</code> won't match the same field value for the role stored in Active Directory.

You can only use the get_role_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_role_field field

Abbreviation

grf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve.

The possible field values are:

- allowLocalUser: Returns true or false depending on whether local users can be assigned to the role. You
 cannot get this field value if the selected zone is a classic4 zone.
- AlwaysPermitLogin: Returns true or false depending on whether "rescue rights" are configured for the role. You cannot get this field value if the selected zone is a classic zone.
- auditLevel: Returns the auditing level configured for the role. Roles can be configured without auditing (not requested), to audit if possible, or to have auditing required. You cannot get this field value if the selected zone is a classic4 zone.
- createTime: Returns the time and date this role was created in generalized time format.
- customAttr: Returns the custom text strings set for the role.
- description: Returns the text string that describes the role.
- **dn**: Returns the role's distinguished name.
- modifyTime: Returns the time and date this role was last modified in generalized time format.
- sysrights: Returns the system rights granted to the role. This value is an integer that represents a combination of binary flags, one for each system right. You cannot get this field value if the selected zone is a classic zone.
 - For more information about the value returned for system rights, see the section below, Getting the System Rights Field for a Role.
- **timebox**: Returns the hours and days in the week when the role is enabled. This value is a 42-digit hexadecimal number.

When represented in binary, each bit represents an hour of the week as described in the Timebox Value Format

• **visible**: Returns true or false depending on whether "User is visible" right is configured for the role. You cannot get this field value if the selected zone is a classic zone.

Getting the system rights field for a role

You can specify the sysrights field to return information about the system rights that have been granted to the currently selected role. This field value is an integer that represents a combination of binary flags, with one flag for each of the following system rights:

- 1—Password login and non password (SSO) login are allowed.
- 2-Non password (SSO) login is allowed.
- **4**—Account disabled in Active Directory can be used by sudo, cron, etc.
- **8**—Log in with non-restricted shell.
- 16-Audit not requested/required.
- 32-Audit required.
- **64**—Always permit to login.
- **128**—Remote login access is allowed for Windows computers.
- 256—Console login access is allowed for Windows computers.
- **512**—Require multi-factor authentication through the Delinea Connector to log on.
- 1024-PowerShell remote access is allowed

These values are added together to define the sysrights field value. For example, a sysrights value of 6 indicates that the role is configured to allow single sign-on login and to ignore disabled accounts (2+4). A value of 11 indicates that the most common UNIX system rights are enabled (1+2+8). A value of 384 indicates that most common Windows system rights are enabled (128+256).

Return Value

This command returns a field value, which varies in type depending on the data type stored by the field.

Examples

get_role_field timebox

This example returns the content of the timebox field:

This return value indicates that the role is enabled during all hours of the weekdays, but none of the weekends.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

ADEdit Command Reference

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role's attributes, delete the role, or save information for the role:

- add_command_to_role adds a UNIX command to the currently selected role.
- add_pamapp_to_role adds a PAM application to the currently selected role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications associated with the currently selected role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the currently selected role.
- remove_command_from_role removes a UNIX command from the currently selected role.
- remove_pamapp_from_role removes a PAM application from the currently selected role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

get role rs commands

Use the get_role_rs_commands command to return a Tcl list of the restricted shell commands associated with the currently selected role.

The get_role_rs_commands command does not query Active Directory for the restricted shell commands. If you change the restricted shell commands associated with the current role using ADEdit without saving the role to Active Directory, the commands you retrieve using get_role_rs_commands won't match the restricted shell commands that are stored in Active Directory.

You can only use get_role_rs_commands if the currently selected zone is a classic4 zone. This command does not work in other types of zones.

Zone Type

Classic only

Syntax

get_role_rs_commands

Abbreviation

grrsc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of restricted shell commands associated with the currently selected role. Each restricted shell command in the list shows the restricted shell command name followed by a slash (/) and the zone in which the restricted shell command is defined.

Examples

get_role_rs_commands

This example returns: rse1-id2/c123 rse1-id1/c123

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with restricted shells:

get_role_rs_env returns the restricted shell environment from the currently selected role.

get_role_rs_env

Use the get_role_rs_env command to return the restricted shell environment from the currently selected role that is stored in memory.

The get_role_rs_env command does not query the data stored in Active Directory for the role. If you change the restricted shell environment in ADEdit without saving the role to Active Directory, the value you retrieve using get_role_rs_env won't match the same value for the role that is stored in Active Directory.

You can only use the get_role_rs_env command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

get_role_rs_env

Abbreviation

grrse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns the restricted shell environment of the currently selected role if it runs successfully. If the currently selected role does not require a restricted shell environment, the command returns nothing.

Examples

get_role_rs_env

This example returns the restricted shell environment if it exists for the selected role:

rse1

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with restricted shells:

- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- save_rs_env saves the restricted shell environment to Active Directory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

get_roles

Use the get_roles command to check Active Directory and return a Tcl list of roles defined within the currently selected zone. If executed in a script, this command does not output its list to stdout, and no output appears in the

shell where the script is executed. Use list_roles to output the list to stdout.

You can only use the get_roles command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

get_roles

Abbreviation

getr

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of roles defined in the currently selected zone.

Examples

get_roles

This example returns the list of roles:

{Rescue - always permit login} scp sftp listed {UNIX Login} {Windows Login} winscp

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- list_roles lists to stdout the roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with role:

- add_command_to_role adds a UNIX command to the currently selected role.
- add_pamapp_to_role adds a PAM application to the currently selected role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications associated with the currently selected role.

- get_role_commands returns a Tcl list of the UNIX commands associated with the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the currently selected role.
- remove_command_from_role removes a UNIX command from the currently selected role.
- remove_pamapp_from_role removes a PAM application from the currently selected role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

get_rs_commands

Use the get_rs_commands command to return a Tcl list of restricted shell commands that are defined for the currently selected zone. If you want to return a list of restricted shell commands to stdout, use the list_rs_commands command.

Zone Type

Classic only

Syntax

get_rs_commands

Abbreviation

grsc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of restricted shell commands for the currently selected zone.

Examples

get_rs_commands

This example returns output similar to this:

rse1-id1 rse1-id2 rse2-id1

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

ADEdit Command Reference

- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.
- set_rsc_field sets a field value in the currently selected command.

get_rs_envs

Use the get_rs_envs command to check Active Directory and return a list of restricted environments that are defined within the currently selected zone. If you want to return a list of restricted shell environment to stdout, use the list_rs_envs command.

Zone Type

Classic only

Syntax

get_rs_envs

Abbreviation

grse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of restricted environments in the currently selected zone.

Examples

get_rs_envs

rse1 rse2

This example returns the list of restricted shell environments.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.
- set rse field sets a field value in the current restricted shell environment.

get_rsc_field

Use the get_rsc_field command to return the value of a specified field value from the currently selected restricted shell command that is stored in memory. Delinea-specific fields are similar to Active Directory attributes but are stored within the Active Directory schema.

The get_rsc_field command does not query Active Directory for the restricted shell command. If you change field values using ADEdit without saving the restricted shell command to Active Directory, the field value you retrieve using get_rsc_field won't match the value stored in Active Directory.

You can only use the get_rsc_field command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

get_rsc_field field

Abbreviation

arscf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the name of the field whose value you want to retrieve. The possible values are: description: Returns text describing the restricted shell command. cmd: Returns the restricted shell command string or strings. path: Returns the path to the command's location. form: Returns an integer that indicates whether the cmd and path strings use wild cards (0) or a regular expression (1). dzsh_runas: Returns a list of users and groups that can run this command in a restricted shell environment (dzsh). Users can be listed by user name or UID. keep: Returns a comma-separated list of environment variables from the current user's environment to keep. del: Returns a comma-separated list of environment variables from the current user's environment to delete. add: Returns a comma-separated list of environment variables to add to the final set of environment variables. pri: Returns a n integer that specifies the command priority for the restricted shell command object. umask: Returns an integer that defines who can execute the command. flags: Returns an integer that specifies a combination of different properties for the command. createTime: The time and date this command was created, returned in generalized time format. modifyTime: The time and date this command was last modified, returned in generalized time format. dn: The command's distinguished name.

Return Value

This command returns a field value. The data type depends on the field specified. For more information about the field values returned by different fields, see get_dzc_field.

Examples

get_rsc_field description

This example returns the contents of the description field:

This is the RSC description

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- save_rs_command saves the selected command with its current settings to Active Directory.

set_rsc_field sets a field value in the currently selected command.

get_rse_cmds

Use the get_rse_cmds command to return a Tcl list of restricted shell commands associated with the currently selected restricted shell environment.

The get_rse_cmds command does not query Active Directory for the restricted shell environment. If you change the restricted shell commands associated with the current restricted shell environment using ADEdit without saving the restricted shell environment to Active Directory, the commands you retrieve using get_rse_cmds won't match those stored in Active Directory.

You can only use the get_rse_cmds command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

get_rse_cmds

Abbreviation

grsec

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of restricted shell commands associated with the currently selected restricted shell environment. Each restricted shell command in the list shows the command name followed by a slash (/) and the zone in which the command is defined.

Examples

get_rse_cmds

The command returns the list restricted commands:

rse1-id2/c123 rse1-id1/c123

Related Commands

Before you use this command, you must have a currently selected restricted shell environment stored in memory. The following commands enable you to view and select the restricted shell environments:

- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- save_rs_env saves the restricted shell environment to Active Directory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following command to work with its fields:

set_rse_field sets a field value in the current restricted shell environment.

get rse field

Use the get_rse_field command to return a field value from the currently selected restricted shell environment stored in memory.

The get_rse_field command does not query Active Directory for the restricted shell environment. If you have changed field values using ADEdit without saving the restricted shell environment to Active Directory, the field value you retrieve using get_rse_field won't match the field value for the restricted shell environment that is stored in Active Directory.

You can only use the get_rse_field command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

get_rse_field field

Abbreviation

grsef

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the name of the field whose value to get. The only possible value is: description: Returns a text string describing the restricted shell environment.

Return Value

This command returns a field value, which varies in type depending on the data type stored by the field.

Examples

get_rse_field description

This command returns the content of the description field. For example:

This is the restricted shell environment description

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- save_rs_env saves the restricted shell environment to Active Directory.
- set_rse_field sets a field value in the current restricted shell environment.

get_schema_guid

Use the get_schema_guid command to look up a specified class or attribute in Active Directory. If the specified object is found, the command returns the globally unique identifier (GUID) of the class or attribute.

This command is useful for setting a security descriptor (SD) at a class or attribute level.

Zone Type

Not applicable

Syntax

get_schema_guid schema_name

Abbreviation

gsg

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
schema_name	string	Required. Specifies the name of a class or attribute.

Return Value

This command returns the globally unique identifier (GUID) of the provided schema object (class or attribute).

Examples

get_schema_guid MS-DS-Az-Role

This example returns the globally unique identifier of MS-DS-Az-Role:

8213eac9-9d55-44dc-925c-e9a52b927644

Related Commands

None.

get_zone_computer_field

Use the get_zone_computer_field command to return the value of a specified field from the currently selected zone computer stored in memory. The get_zone_computer_field command does *not* query Active Directory for the zone computer. If you change field values using ADEdit without saving the zone computer to Active Directory, the field value you retrieve using get_zone_computer_field won't match the same field value for the zone computer stored in Active Directory.

Zone Type

Classic and hierarchical

Syntax

get_zone_computer_field field

Abbreviation

gzcf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are: addn: Returns the distinguished name of the Active Directory computer object for the zone computer. For example, if the computer object is created in the default Computers container, this field might return a path similar to CN=firefly-sf,CN=Computers,DC=ajax,DC=org. agentVersion: Returns the version of agent currently installed on the zone computer. cpus: Returns the number of CPUs in the computer. createTime: Returns the time and date this zone computer was created (in generalized time format). dn: Returns the distinguished name of the service connection point for the zone computer. If the computer is in a Services for UNIX (SFU) zone, no value is returned for this field. dnsname: Returns the domain name service (DNS) name of the zone computer. enabled: Returns 1 if the zone computer is enabled in its zone or 0 if it is not. modifyTime: Returns the time and date this zone computer was last modified (in generalized time format).

Return Value

This command returns a field value. The data type depends on the field specified.

Examples

get_zone_computer_field dnsname

This example returns the name of the zone computer as listed in DNS:

printserver.acme.com

Related Commands

Before you use this command, you must have a currently selected zone computer stored in memory. The following commands enable you to view and manage the zone computers:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

get_zone_computers

Use the get_zone_computers command to check Active Directory and return a Tcl list of zone computers defined within the currently selected zone. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed. Use list_zone_computers to output the list to stdout.

Zone Type

Classic and hierarchical

Syntax

get_zone_computers

Abbreviation

gzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of zone computers defined in the currently selected zone. Each entry in the list is the security identifier (SID) of a computer that you can use to look up that computer.

Examples

get_zone_computers

This example returns the security identifier for each computer:

*S-1-5-21-2076040321-3326545908-468068287-1107

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the zone computers:

- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.
- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

get_zone_field

Use the <code>get_zone_field</code> command to return the value for a specified field from the currently selected zone stored in memory. The <code>get_zone_field</code> command does not query Active Directory for this zone. If you change field values using ADEdit without saving the zone to Active Directory, the field value you retrieve using <code>get_zone_field</code> won't match the same field value for the zone stored in Active Directory.

Zone Type

Classic and hierarchical

Syntax

get_zone_field field

Abbreviation

gzf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve.

The data type depends on the field you return. The possible field values are:

- availableshells: Returns the shells available to assign to new users in the zone.
- block.parent.zgroup: Returns the value of the block.parent.zgroup field in the zone object's description.
- cloudurl: Returns the name of the cloud instance associated with the selected zone.
- **computers**: Returns the computer group UPN that is assigned to the computer role selected as a zone.
- **createTime**: Returns the time and date this zone was created.
- customAttr: Returns the custom text strings that have been set for the zone. This field is only applicable for hierarchical zones.
- defaultgid: Returns the default primary group to assign to new users.

- defaultgecos: Returns the default GECOS data to assign to new users.
- defaulthome: Returns the default home directory to assign to new users.
- defaultshell: Returns the default shell to assign to new users.
- **description**: Returns the description of the zone.
- **dn**: Returns the zone's distinguished name.
- **gidnext**: Returns the next GID to use when auto-assigning GID numbers to new groups.
- gidreserved: Returns the GID number or range of numbers (1-100) that are reserved.
- **groupname**: Returns the default group name used for new groups in the zone.
- modifyTime: Returns the time and date this zone was last modified.
- **nisdomain**: Returns the name of the NIS domain if it has been set.
- parent: Returns the distinguished name (DN) of the parent zone for the selected zone.
- **schema**: Returns the schema used in this zone, for example, std.
- sid2iddomainmap: Returns the domain ID mapping from the selected zone. This field is not supported for auto zones nor classic zones.
- **sfudomain**: Returns the Windows domain name for the SFU zone. Only use this argument if the current zone is a Service for UNIX (sfu) zone.
- **tenantid**: Returns the Delinea Platform tenant ID for the zone. This field is only applicable for hierarchical zones.
- type: Returns the type of the zone, for example, classic4 or tree.
- uidnext: Returns the next UID to use when auto-assigning UID numbers to new users.
- uidreserved: Returns the UID number or range of numbers (1-100) that are reserved.
- username: Returns the default user name used for new users in the zone.

For more information about the values returned by these fields, see the Return value section.

Return Value

This command returns the current value for the specified field. The data type depends on the field specified.

This field	Returns
availableshells	Returns the list of shells available to choose from when adding new users to the currently selected zone. The value is a list of shell paths, separated by colons:. For example, "/bin/bash:/bin/csh:/bin/ksh"
block.parent.zgroup	Returns the value of the block.parent.zgroup field from the zone object's description for the currently selected zone. This field can be true if you want to prevent groups provisioned in the parent zone from being visible in the child zone if they aren't being used. The default value is false.

This field	Returns
cloudurl	Returns the fully-qualified URL of the cloud instance associated with the selected zone.
computers	Returns the computer group UPN that is assigned to the computer role if the currently selected zone is a "computer role" zone.
createTime	Returns the time and date this zone was created (in generalized time format).
defaultgid	Returns the default primary group to assign to new users in the currently selected zone. The value can be a specific GID value or include variables.
defaultgecos	Returns the default GECOS data to assign to new users in the currently selected zone. The value can be a string or include variables.
defaulthome	Returns the default home directory to assign to new users in the currently selected zone. The value can be a string that defines the path or include variables.
defaultshell	Returns the default shell to assign to new users in the currently selected zone. The value can be a string that defines the shell or include variables.
description	Returns the description of the zone. If the currently selected zone is a computer role, this field returns the Active Directory description attribute for the msds-AzScope object.
dn	Returns the zone's distinguished name. If the currently selected zone is a computer role, this field returns the Active Directory distinguished name attribute of the msds-Azscope object.
gidnext	Returns the next GID to use when auto-assigning GID numbers to new groups in the currently selected zone.
gidreserved	Returns the GID number or range of numbers (1-100) that are reserved in the currently selected zone.
groupname	Returns the default group name used for new groups in the currently selected zone. You can only return the value for this field if the current zone is a hierarchical zone.
modifyTime	Returns the time and date this zone was last modified (in generalized time format).
nisdomain	Returns the name of the NIS domain if it has been set. The default value is the zone name.
parent	Returns the distinguished name (DN) of the parent zone for the currently selected zone. You can only return the value for this field if the current zone is a hierarchical zone. You can use the option -raw with this field to return the parentLink attribute in the raw $Guid@Domain$ format.

This field	Returns
schema	Returns the schema used in this zone, for example, std.
sfudomain	Returns the Windows domain name for the SFU zone. Only use this argument if the current zone is a Service for UNIX (sfu) zone.
sid2iddomainmap	Returns a comma-separated key value pairs string. If an empty string is returned, that means that there's no domain ID mapping for the selected zone.
tenantid	Returns the tenant ID of the cloud instance associated with the selected zone.
type	Returns the type of the currently selected zone. For example, this field returns classic3 or classic4 for a classic zone or tree for a hierarchical zone.
uidnext	Returns the next UID to use when auto-assigning UID numbers to new users in the currently selected zone.
uidreserved	Returns the UID number or range of numbers (1-100) that are reserved in the currently selected zone.
username	Returns the default user name used for new users in the zone. You can only return the value for this field if the current zone is a hierarchical zone.

Examples

get_zone_field type

This example returns the zone type:

tree

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the zone:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone computer:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.

- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

get_zone_group_field

Use the <code>get_zone_group_field</code> command to return the value for a specified field from the currently selected zone group stored in memory. The <code>get_zone_group_field</code> command does not query Active Directory for the zone group. If you change field values using ADEdit without saving the zone group to Active Directory, the field value you retrieve using <code>get_zone_group_field</code> won't match the same field value for the zone group stored in Active Directory.

Zone Type

Classic and hierarchical

Syntax

get_zone_group_field field

Abbreviation

gzgf

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the case-sensitive name of the field whose value to retrieve. The possible values are: addn: Returns the distinguished name of the Active Directory group object for the zone group. For example, if the group object is created in the default Users container, this field might return a path similar to CN=pubsteam,CN=Users,DC=ajax,DC=org. createTime: Returns the time and date this zone group was created (in generalized time format). dn: Returns the distinguished name of the service connection point for the zone group. If the zone is a Services for UNIX (sfu) zone, no value is returned for this field. gid: Returns the numeric identifier for the group. modifyTime: Returns the time and date this zone group was last modified (in generalized time format). name: Returns the group name. required: Returns 1 if the zone group is required for members in this zone, or 0 if the group is not required. Users assigned to a required group cannot remove the group from their active set of groups. You can also specify AIX extended attributes as the field to get an extended attribute value for a group. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be retrieved by specifying aix.admin as the field.

Return Value

This command returns a field value. The data type depends on the field specified.

Examples

The following example returns the group name.

```
get_zone_group_field name
padmins
```

If the current group is on AIX, you can get AIX group extended attributes and values. For example, to find out if the current group is an administrative group, you can get the admin extended attribute:

```
get_zone_group_field aix.admin
true
```

Related Commands

Before you use this command, you must have a currently selected zone group stored in memory. The following commands enable you to view and manage the zone groups:

- list_zone_groups lists to stdout the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

get_zone_groups

Use the get_zone_groups command to check Active Directory and return a Tcl list of zone groups defined within the currently selected zone. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed. Use list_zone_groups to output the list to stdout.

Zone Type

Classic and hierarchical

Syntax

get_zone_groups

Abbreviation

gzg

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of zone groups defined in the currently selected zone. Each entry in the list is the user principal name (UPN) of a group that you can use to look up that group.

Examples

get_zone_groups

This example returns the list of zone groups: poweradmins@acme.com auditors@acme.com

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- list_zone_groups lists to stdout the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_field reads a field value from the currently selected zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

get_zone_nss_vars

Use the get_zone_nss_vars command to return a Tcl list containing the NSS substitution variables for the currently selected zone stored in memory. This command only works on hierarchical zones and won't return a value for other zone types.

The get_zone_nss_vars command does *not* query Active Directory for this zone. If you change the variables using set_zone_field without saving the zone Active Directory, the variable you retrieve using get_zone_nss_vars won't match the same field variable for the zone stored in Active Directory.

Zone Type

Hierarchical only

Syntax

get_zone_nss_vars

Abbreviation

gznv

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of strings in the form "A=B".

Examples

get_zone_nss_vars

This example returns: NSSRANDCOUNT=32000 NSRANDFILE=/params/nssrand.seed

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone:

- `create zone creates a new zone in Active Directory.
- 'get_zones returns a Tcl list of all zones within a specified domain.
- 'select zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

get_zone_user_field

Use the get_zone_user_field command to return the value for a specified field from the currently selected zone user stored in memory. The get_zone_user_field command does *not* query Active Directory for the zone user. If

you change field values using ADEdit without saving the zone user to Active Directory, the field value you retrieve using get_zone_user_field won't match the same field value for the zone user stored in Active Directory.

Zone Type

Classic and hierarchical

Syntax

get_zone_user_field field

Abbreviation

gzuf

Options

This command takes no options.

Arguments

This command takes the following required argument:

field (string type)

Specifies the case-sensitive name of the field whose value to retrieve.

Argument values

- addn: Returns the distinguished name of the Active Directory user object for the zone user. For example, if the user object is created in the default Users container, this field might return a path similar to CN=amy.adams, CN=Users, DC=ajax, DC=org.
- **createTime**: Returns the time and date this zone user was created.
- dn: Returns the distinguished name of the service connection point for the zone user. If the zone is a Services for UNIX (sfu) zone, no value is returned for this field.
- enabled: Returns 1 if the user is enabled, or 0 if the user is disabled. This field is only applicable for users in classic zones. All other zone types use roles.
- **foreign**: If the zone user comes from another forest, this field returns the user principal name of the zone user. Otherwise, this field returns no value.
- gecos: Returns information from the GECOS field.
- gid: Returns the primary group identifier (GID) for the user.
- home: the Returns user's home directory.
- modifyTime: Returns the time and date this zone user was last modified.
- **shell**: Returns the user's shell type.
- **uid**: Returns the numeric identifier for the user.
- uname: Returns the user name.

You can also specify AIX extended attributes as the field to get an extended attribute value for a zone user.

Return Value

This command returns a field value. The data type depends on the field specified.

Examples

The following example returns the current zone user's user name:

```
get_zone_user_field uname
adam
```

If the current zone user is on AIX, you can get extended attributes and values. For example:

```
select_zone_user aixu1@acme.com
get_zone_user_field aix.ttys
u1,u2,u3
```

Related Commands

Before you use this command, you must have a currently selected zone user stored in memory. The following commands enable you to view and select a zone user:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone.
- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

get_zone_users

Use the get_zone_users command to check Active Directory and return a Tcl list of zone users defined within the currently selected zone. If executed in a script, this command does not output its list tostdout, and no output appears in the shell where the script is executed. Use list_zone_users to output the list to stdout.

Zone Type

Classic and hierarchical

Syntax

```
get_zone_users [-upn]
```

Abbreviation

gzu

Options

This command takes the following option:

Option	Description
-upn	Optional. Returns user names in user principal name (UPN) format rather than the default samaccount@domain format.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of zone users defined in the currently selected zone. By default, users are listed by samaccountName@domain. You can use the -upn option to return users listed by user principal name (UPN). If a zone user is an orphan user—that is, its corresponding Active Directory user no longer exists—the user is listed by its security identifier (SID) instead of the samaccountName or user principal name.

Examples

get_zone_users

This example returns the list of users: adam.avery brenda.butler chris.carter

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone user:

- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

get zones

Use the get_zones command to check Active Directory and return a Tcl list of zones within a specified domain. Note that this does not include computer-specific override zones or computer roles.

Zone Type

Classic and hierarchical

Syntax

get_zones domain

Abbreviation

qz

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
domain	string	Required. Specifies the name of the domain for which to return zones.

Return Value

This command returns a Tcl list with the distinguished name for each zone in the specified domain.

Examples

get_zones acme.com

This example returns the list of zones in the acme.com domain:

CN=childzone1, CN=Zones, CN=Acme, CN=Program
Data, DC=acme, DC=comCN=childzone2, CN=Zones, CN=Acme, CN=Program
Data, DC=acme, DC=comCN=global, CN=Zones, CN=Acme, CN=Program Data, DC=acme, DC=com

Related Commands

The following commands perform actions related to this command:

- create_zone creates a new zone in Active Directory.
- select_zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.

- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

getent_passwd

Use the getent_passwd command to return a Tcl list of local UNIX users that are defined in the /etc/passwd file on the ADEdit host computer. If the local host is joined to an Active Directory domain, the command also returns information for the Active Directory users who have a profile in the joined domain and zone.

Zone Type

Not applicable

Syntax

getent_passwd

Abbreviation

gep

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a Tcl list of /etc/passwd file entries with all user profile attributes.

Examples

getent passwd

This example returns the contents of the local /etc/passwd file:

Related Commands

The following command performs actions related to this command:

 get_pwnam searches the /etc/passwd file for a UNIX user name and, if found, returns a Tcl list of the profile attributes associated with the user.

guid_to_id

Use the guid_to_id command to specify a globally unique identifier (GUID) for a user or group and returns a UID or GID that uses the Apple methodology for automatically generated unique identifiers.

Zone Type

Not applicable

Syntax

guid_to_id guid

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
guid	string	Required. Specifies the globally unique identifier for a user or group.

Return Value

This command returns UID or GID for the user or group generated using the Apple mechanism for automatically generating identifiers.

Examples

guid_to_id 763ddbc8-44cc-4a79-83aa-abc899b46aba

This example returns the UID for the user associated with the specified globally unique identifier:

1983765448

Related Commands

The following command performs actions related to this command:

- principal_to_id returns a unique UID or GID based on either the Apple methodology or the Delinea Auto
 Zone methodology for generating numeric identifiers.
- sid_to_uid converts a user's security identifier to a numeric identifier (UID).

help

Use the help command to return information about one or more ADEdit commands. It's followed by a command pattern that is either the name of a single ADEdit command or a string with wild cards that specifies multiple possible commands. The command pattern can also be a command abbreviation.

The command pattern wild cards are:

- ? for a single character
- * for multiple characters

Zone Type

Not applicable

Syntax

help command_pattern

Abbreviation

h

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
command_ pattern	string	Required. Specifies the name of one or more ADEdit commands for which to return information. You can specify a command name, command shortcut or use the ? and * wild cards to specify a single character or multiple characters respectively.

Return Value

This command returns information for the specified command or commands. If there's no match for the *command_pattern* you specify, the command returns nothing.

Examples

help explain_sd

This example returns information for the explain_sd command.

help ?et*

This example returns information for the ADEdit commands that start with get or set, such as get_zones, get_zone_field, set_zone_field, and set_role_field.

Related Commands

None.

is_dz_enabled

Use this command to check whether authorization is enabled in a currently selected classic zone.

Zone Type

Classic only

Syntax

is_dz_enabled

Abbreviation

idze

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns 1 if authorization is enabled in a classic or 0 if authorization is not enabled.

Examples

```
create_zone classic4 cn=c125,cn=zones,dc=test,dc=net
select_zone cn=c125,cn=zones,dc=test,dc=net
is_dz_enable
0
manage_dz -on
is_dz_enable
1
```

This code example creates a new classic zone, checks that authorization is disabled by default, then enables authorization for the zone.

Related Commands

The following command performs actions related to this command:

manage_dz enables and disables authorization in classic4 zones.

joined_get_user_membership

Use the joined_get_user_membership command to have adclient query Active Directory for a list of groups that a specified user belongs to in the domain to which ADEdit's host computer is joined. If the adclient query returns groups, this command returns those groups in a Tcl list.

Because this command queries Active Directory through adclient, the query might use the adclient cache instead of connecting directly to Active Directory. The adclient cache isn't guaranteed to be updated with ADedit activity. Therefore, you might need to execute the Delinea UNIX command adflush before using joined_get_user_membership to ensure you get the most up-to-date results.

Zone Type

Not applicable

Syntax

joined_get_user_membership user_UPN

Abbreviation

jgum

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_UPN	string	Required. Specifies the user principal name (UPN) of the user to check for group membership.

Return Value

This command returns a Tcl list of groups.

Examples

joined_get_user_membership liz.lemon@acme.com

This example returns group membership for liz.lemon in the joined domain:

acme.com/Users/Domain Users

Related Commands

The following commands performs actions related to this command:

- joined_user_in_group checks Active Directory through adclient to see if a user is in a group.
- get_effective_groups returns a Tcl list of groups a user belongs to.
- get_group_members returns a Tcl list of members in a group.

joined_name_to_principal

Use the joined_name_to_principal command have adclient query Active Directory for a UNIX name of a specified user. If the specified user is found, the command returns the associated Active Directory user name in the format of samaccountName@domain. The command can also optionally return the user principal name (UPN) of the user. This command works only for users within the domain to which ADEdit's host computer is joined through adclient.

Zone Type

Not applicable

Syntax

joined_name_to_principal [-upn] UNIX_name

Abbreviation

jntp

Options

This command takes the following option:

Option	Description
-upn	Returns the user's Active Directory name in user principal name (UPN) format.

Arguments

This command takes the following argument:

Argument	Туре	Description
UNIX_name	string	Required. Specifies the UNIX name of a user to look for in Active Directory.

Return Value

This command returns the samaccountName@domain form of the user name if the user is found in Active Directory. If you specify the -upn option, this command returns the UPN form of user name.

Examples

joined_name_to_principal -upn adam

This example returns the samaccountName@domain for the UNIX user adam:

adam.avery@acme.com

Related Commands

The following commands performs actions related to this command:

- principal_to_dn searches Active Directory for a user principal name (UPN) and, if found, returns the corresponding DN.
- dn_to_principal searches Active Directory for a distinguished name and, if found, returns the corresponding LIPN
- principal_from_sid searches Active Directory for a security identifier (SID) and returns the security principal associated with the SID.

joined_user_in_group

Use the joined_user_in_group command to have adclient query Active Directory to see if a specified user belongs to a specified group. This command works only for users and groups within the domain to which ADEdit's host computer is joined through adclient.

Because this command queries Active Directory throughadclient, the query might use adclient's cache rather than connect directly to Active Directory. The adclient cache isn't guaranteed to be updated with ADedit activity. Therefore, you might need to execute the Delinea UNIX command adflush before using joined_user_in_group to ensure you get the most up-to-date results.

Zone Type

Not applicable

Syntax

joined_user_in_group user_UPN group_UPN

Abbreviation

jug

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
user_UPN	string	Required. Specifies the user principal name (UPN) of the user for which you want to check group membership.

Argument	Туре	Description
group_UPN	string	Required. Specifies the UPN of the group for which you want to check user membership.

Return Value

This command returns 1 if the user is a member of the group, or 0 if the user is not a member of the group.

Examples

joined_user_in_group martin.moore@acme.com poweradmins@acme.com

This example returns 1 because martin.moore is a member of the poweradmins group.

Related Commands

The following commands performs actions related to this command:

- joined_get_user_membership uses adclient to return a Tcl list of groups that a user belongs to.
- get_effective_groups checks Active Directory directly and returns a Tcl list of groups a user belongs to.
- get_group_members checks Active Directory and returns a Tcl list of members in a group.

list dz commands

Use the list_dz_commands command to check Active Directory and return a list of UNIX command objects defined within the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_dz_commands to return a Tcl list.

You can only use the list_dz_commands command to return UNIX command data for classic4 and hierarchical zones.

Zone Type

Classic and hierarchical

Syntax

list_dz_commands

Abbreviation

1sdzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of UNIX commands defined in the currently selected zone. Each entry in the list contains the following fields, separated by colons (:):

- The name of the UNIX command followed by a slash (/) and the name of the zone where the command is defined.
- The properties of the command.
- Text describing the command.

Examples

list_dz_commands

This example returns commands in the following format:

root_any/global : * form(0) dzdo_runas(root) flags(16) : Run any command as root

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

list_local_groups_profile

Use the list_local_groups_profile command to display a list of local UNIX and Linux group profiles that are defined in the current zone.

Zone Type

Hierarchical only.

Syntax

list_local_groups_profile

Abbreviation

lslgp

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of the local UNIX and Linux group profiles that are defined in the current zone. Each profile contains the group name, GID, members, and profile flag value.

Examples

The following example returns a local group profile list.

list_local_groups_profilelam_grp1:3001:lam_usr1:1lam_grp2:3002:lam_usr2:1lam_grp3:3003:lam_ usr3:3

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.

- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

list_local_users_profile

Use the list_local_users_profile command to display a list of local UNIX and Linux user profiles that are defined in the current zone.

Zone Type

Hierarchical only.

Syntax

list_local_users_profile

Abbreviation

1slup

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of the local UNIX and Linux user profiles that are defined in the current zone. Each profile contains the user name, UID, primary GID, GECOS, home directory, shell, and profile flag value.

Examples

The following example returns a local user profile list.

```
list_local_users_profile
```

```
lam_usr1:2001:2001:lam usr1:/home/lam_usr1:/bin/bash:1
lam_usr2:2002:2002:lam usr2:/home/lam_usr2:/bin/bash:2
lam_usr3:2003:lam usr3:/home/lam_usr3:/bin/bash:3
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user
 that has a profile defined in the current zone.

list_nis_map

Use the list_nis_map command to return a list of all map entries within the currently selected NIS map. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_nis_map to return a Tcl list of NIS map entries.

Zone Type

Not applicable

Syntax

list_nis_map

Abbreviation

1snm

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of the map entries for the currently selected NIS map. Each map entry in the list contains the following fields separated by colons (:):

- The key
- The instance number of the key
- The value

Examples

list_nis_map

This example returns map entries similar to the following:

Finance:1:Hank@acme.com,jane@acme.com,joe@acme.com

Mktg:1:Mike@acme.com,Sue@acme.com

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select a NIS map:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps returns a list to stdout of all NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

- add_map_entry or add_map_entry_with_comment adds a map entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.

- list_nis_map_with_comment lists to stdout the map entries in the currently selected NIS map.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

list_nis_map_with_comment

Use the list_nis_map_with_comment command to return a list of all map entries for the currently selected NIS map and includes the entries' comment. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed.

The command does not return a Tcl list back to the executing script. Use get_nis_map or get_nis_map_with_comment to return a Tcl list of NIS map entries for parsing or further processing within the script.

Zone Type

Not applicable

Syntax

list_nis_map_with_comment

Abbreviation

1snmwc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of the map entries for the currently selected NIS map. Each map entry in the list contains the following fields separated by colons ':':

- The key
- The instance number of the key
- The value
- The comment

Examples

list_nis_map_with_comment

This example returns map entries similar to the following:

Finance:1:Hank@acme.com,jane@acme.com,joe@acme.com:Finance dept staff

Mktg:1:Mike@acme.com,Sue@acme.com:Marketing dept staff

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select a NIS map:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout the NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

- add_map_entry or add_map_entry_with_comment adds a map entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map lists to stdout the map entries in the currently selected NIS map.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

list_nis_maps

Use the list_nis_maps command to check Active Directory and return a list of NIS maps defined in the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_nis_ maps to return a Tcl list.

Zone Type

Not applicable

Syntax

list_nis_maps

Abbreviation

1snms

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of NIS maps defined in the currently selected zone.

Examples

list_nis_maps

This example returns the list of NS maps for the zone:

Aliases

Printers

Services

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select a NIS map:

- get_nis_maps returns a Tcl list of NIS maps in the currently selected zone.
- list_nis_maps lists to stdout the NIS maps in the currently selected zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

- add_map_entry or add_map_entry_with_comment adds a map entry to the currently selected NIS map.
- delete_map_entry removes an entry from the currently selected NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout the map entries in the currently selected NIS map.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

list_pam_apps

Use the list_pam_apps command to check Active Directory and return a list of PAM application rights defined in the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_pam_apps to return a Tcl list.

You can only use the list_pam_apps command to return PAM application rights for classic4 and hierarchical zones.

Zone Type

Classic and hierarchical

Syntax

list_pam_apps

Abbreviation

1spa

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of PAM application rights defined in the currently selected zone. Each entry contains the following fields, separated by colons:

- The name of the PAM access right followed by a slash (/) and the zone in which the PAM access right is defined.
- The name of one or more PAM applications to which the right applies.
- Text describing the PAM application object.

Examples

list_pam_apps

This example returns a list of PAM application access rights for the selected zone (the following is a subset of the default predefined rights):

```
dzssh-all/global : dzssh-* : All of ssh services
dzssh-exec/global : dzssh-exec : Command execution
dzssh-scp/global : dzssh-scp : scp
dzssh-sftp/global : dzssh-sftp : sftp
dzssh-shell/global : dzssh-shell : Terminal tty/pty
dzssh-tunnel/global : dzssh-tunnel : Tunnel device forwarding
dzssh-X11-forwarding/global : dzssh-x11-forwarding : X11 forwarding
login-all/global : * : Predefined global PAM permission. Do not delete.
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a PAM application object:

- get_pam_apps returns a Tcl list of PAM applications in the current zone.
- new_pam_app creates a new PAM application and stores it in memory.
- select_pam_app retrieves a PAM application from Active Directory and stores it in memory.

After you have a PAM application object stored in memory, you can use the following commands to work with that PAM application:

- delete_pam_app deletes the selected PAM application from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application.
- save_pam_app saves the selected PAM application with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application.

list_pending_zone_groups

Use the list_pending_zone_groups command to check Active Directory and return a list of pending import groups for the currently selected zone. Pending import groups are group profiles that have been imported from Linux or UNIX computers, but not yet mapped to any Active Directory group. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_pending_zone_groups to return a Tcl list.

Zone Type

Classic and hierarchical

Syntax

list_pending_zone_groups

Abbreviation

1pzg

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of pending import groups for the currently selected zone. Each entry in the list contains the following fields, separated by colons (:):

- Distinguished name (DN) of the pending import group as it is stored in Active Directory. The distinguished name for each pending import group includes a prefix that consists of "PendingGroup" and the globally unique identifier (GUID) for the group.
- UNIX group name.
- Numeric group identifier (GID).

Examples

list_pending_zone_groups

This example returns the list of groups similar to this:

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following command performs actions related to this command:

get_pending_zone_groups returns a Tcl list of the pending import groups in the current zone.

list_pending_zone_users

Use the list_pending_zone_users command to check Active Directory and return a list of pending import users for the currently selected zone. Pending import users are user profiles that have been imported from Linux or UNIX computers, but not yet mapped to any Active Directory user. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_pending_zone_users to return a Tcl list.

Zone Type

Classic and hierarchical

Syntax

list_pending_zone_users

Abbreviation

1pzu

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of pending import users for the currently selected zone. Each entry in the list contains the following fields, separated by colons (:):

- Distinguished name (DN) of the pending import user as it is stored in Active Directory. The distinguished name
 for each pending import user includes a prefix that consists of "PendingUser" and the globally unique identifier
 (GUID) for the user.
- UNIX user name.
- Numeric user identifier (UID).

- Numeric primary group identifier (GID).
- Personal information from the GECOS field.
- Home directory.
- Default login shell.

Examples

list_pending_zone_users

This example returns the list of groups similar to this:

```
CN=PendingUser_09024f3a-6abc-4666-a127-722f9fe0e0bf,CN=Users,CN=finance,
CN=Zones,CN=Acme,DC=win2k3,DC=test:root:0:0:root:/root:/bin/bash: CN=PendingUser_0b9fe038-
1325-438f-8529-cb190ab5914a,CN=Users,CN=finance,
CN=Zones,CN=Acme,DC=win2k3,DC=test:bean:6001:5000:bean.zhang:/home/bean:/bin/bash:
```

Related Commands

The following command performs actions related to this command:

get_pending_zone_users returns a Tcl list of the pending import users in the current zone.

list_role_assignments

Use the list_role_assignments command to check Active Directory and return a list of role assignments defined within the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_role_assignments to return a Tcl list.

If you do not specify an option, the command returns the current users and groups in the zone with a role assignment using the default samaccount@domain format.

You can only use the list_role_assignments command to return role assignments for classic4 and hierarchical zones.

Zone Type

Classic and hierarchical

Syntax

list_role_assignments [-upn] [-visible] [-user] [-group] [-invalid]

Abbreviation

1sra

Options

This command takes the following options:

Option	Description
-upn	Optional. Returns user names in user principal name (UPN) format rather than the default sAMAccount@domain format.
-visible	Returns a list to stdout of the visible role assignments in the zone. Use this option if you only want to return role assignments for the roles that are identified as visible. This option is only applicable in hierarchical zones.
-user	Returns a list to stdout of the current users in the zone with a role assignment. Use this option if you only want to return valid users with a role assignment.
-group	Returns a list to stdout of the current groups in the zone with a role assignment. Use this option if you only want to return valid groups with a role assignment.
-invalid	Returns a list to stdout of any invalid role assignments in the zone. A role assignment is invalid if it specifies a group or user that no longer exists. Use this option if you only want to return invalid role assignments.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of role assignments defined in the currently selected zone. Each entry in the list provides the following information:

- The user or group to whom the role assignment applies by sAMAccount@domain name or user principal name.
- The name of the role assigned followed by a slash (/) and the zone where the role is defined.

Examples

>bind pistolas.org

>select_zone "cn=northamerica,cn=zones,ou=acme,dc=pistolas,dc=org"

>list_role_assignments

This example returns the role assignments for the northamerica zone: Domain Users@pistolas.org: Window Login/northamerica adm-sf@pistolas.org: UNIX Login/northamerica rey@pistolas.org: UNIX Login/northamerica maya@pistolas.org: SQLAdmin/northamerica

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a role assignment:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the currently selected role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the currently selected role assignment.
- write_role_assignment saves the selected role assignment to a file.

list_role_rights

Use the list_role_rights command to return a list of all UNIX commands and PAM application rights set within the currently selected role. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script.

The list_role_rights command does *not* query Active Directory for the role. If you change commands or PAM applications using ADEdit without saving the role to Active Directory, commands and PAM applications you retrieve using list_role_rights won't match those stored in Active Directory.

You can only use list_role_rights to return role rights for classic4 and hierarchical zones.

Zone Type

Classic and hierarchical

Syntax

list_role_rights

Abbreviation

lsrr

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of the PAM application and UNIX command rights that are defined for the currently selected role.

Each entry lists the name of the application or command right, the attributes of the application or command, and any descriptive text.

Examples

list_role_rights

This example returns the list of PAM application and UNIX command rights:

dzssh-all/northamerica : dzssh-exec : Command execution login-all/seattle : * : Predefined
global PAM permission. Do not delete. cron-exec/seattle : cron form(0) dzdo_runas(admin)
flags(16);

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select a role:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles returns a list of all roles in the currently selected zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_role adds a UNIX command right to the current role.
- add_pamapp_to_role adds a PAM application right to the current role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM application rights associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- get_role_field reads a field value from the current role.
- remove_command_from_role removes a UNIX command from the current role.
- remove_pamapp_from_role removes a PAM application from the current role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the current role.

list roles

Use the list_roles command to check Active Directory and return a list of roles defined in the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_roles to return a Tcl list.

You can only use list_roles to return role information for classic4 and hierarchical zones.

Zone Type

Classic and hierarchical

Syntax

list_roles

Abbreviation

1sr

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of roles defined in the currently selected zone.

Examples

list_roles

This example returns the list of roles for the zone:

```
Rescue - always permit login
listed
scp
sftp
UNIX Login
windows Login
winscp
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a role:

- get_roles returns a Tcl list of roles in the current zone.
- new_role creates a new role and stores it in memory as the currently selected role.
- select_role retrieves a role from Active Directory and stores it in memory as the selected role.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_role adds a UNIX command right to the current role.
- add_pamapp_to_role adds a PAM application right to the current role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM application rights associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.

- get_role_field reads a field value from the current role.
- list_role_rights returns a list of all UNIX command and PAM application rights associated with the current role.
- remove_command_from_role removes a UNIX command from the current role.
- remove_pamapp_from_role removes a PAM application from the current role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the current role.

list rs commands

Use the list_rs_commands command to print a list of the restricted shell commands that are defined for the currently selected zone. This command retrieves information from Active Directory and to returns the list of restricted shell commands to stdout. If you want to return a Tcl list of restricted shell commands, use get_rs_commands.

Zone Type

Classic only

Syntax

list_rs_commands

Abbreviation

1srsc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list of restricted shell commands for the currently selected zone.

Examples

list_rs_commands

This command returns the list of restricted shell commands and attributes similar to this:

```
rseid1/c123: id form(0) dzsh_runas($) umask(77) path(USERPATH) flags(0): rseid2/c123: id2 form(0) dzsh_runas($) pri(1) umask(77) path(USERPATH) flags(0): id2
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.
- set_rsc_field sets a field value in the currently selected command.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the restricted shell commands:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- new_rs_command creates a new restricted shell command and stores it in memory.
- save_rs_command saves the selected restricted shell command with its current settings to Active Directory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with its fields:

- get_rsc_field reads a field value from the current restricted shell command.
- set_rsc_field sets a field value in the current restricted shell command.

list_rs_envs

Use the list_rs_envs command to check Active Directory and print a list of restricted shell environments defined within the currently selected zone to stdout. Use the get_rs_envs command to return a Tcl list.

Zone Type

Classic only

Syntax

list_rs_envs

Abbreviation

1srse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command prints the list of restricted shell environments to stdout. It has no return value.

Examples

list_rs_envs

This example displays the list of restricted shell environments.

restrict_env1 restrict env2

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.
- set_rse_field sets a field value in the current restricted shell environment.

list_zone_computers

Use the list_zone_computers command to check Active Directory and return a list of zone computers defined within the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_zone_computers to return a Tcl list.

Zone Type

Classic and hierarchical

Syntax

list_zone_computers

Abbreviation

1szc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of zone computers defined in the currently selected zone. Each zone computer entry includes the following fields, separated by colons (:):

- User principal name (UPN) of the computer.
- Number of CPUs in the computer and the version of Delinea software installed on the computer.
- Name of the computer in DNS.

Examples

list_zone_computers

This example returns the list of computers similar to this:

printserv\$@acme.com:cpus (1) agentVersion (CentrifyDC 5.0.0): printserv.acme.com

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone computer:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.

- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

list_zone_groups

Use the list_zone_groups command to check Active Directory and return a list of zone groups defined in the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_zone_groups to return a Tcl list.

Zone Type

Classic and hierarchical

Syntax

list_zone_groups

Abbreviation

lszg

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of zone groups defined in the currently selected zone. Each entry in the list contains the following fields, separated by colons (:):

- User principal name of the zone group as it is stored in Active Directory.
- UNIX group name.
- Numeric group identifier (GID).
- The string "Required" if the "Users are required to be members of this group" option is set for the group.

Examples

list_zone_groups

This example returns the list of groups similar to this:

```
sf-admins@pistolas-org:sfadmins:10F24
sf-apps@pistolas.org:sf-apps:2201
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- get_zone_groups returns a Tcl list of the Active Directory names of the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_field reads a field value from the currently selected zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

list zone users

Use the list_zone_users command to check Active Directory and return a list of zone users defined in the currently selected zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use get_zone_users to return a Tcl list.

Zone Type

Classic and hierarchical

Syntax

list_zone_users [-upn]

Abbreviation

1szu

Options

This command takes the following option:

Option	Description
-upn	Optional. Returns user names in user principal name (UPN) format rather than the default sAMAccount@domain format.

Arguments

This command takes no arguments.

Return Value

This command returns a list to stdout of zone users for the currently selected zone. Each entry in the list contains the following user profile fields separated by colons (:):

- sAMAccountName@domain or the UPN of the zone user as it is stored in Active Directory.
 - If the Active Directory user no longer exists for a zone user, the command returns the security identifier (SID) of the orphan user.
- UNIX user name.
- Numeric user identifier (UID).
- Numeric identifier for the user's primary group (GID).

If the GID has the number 2147483648 (which is 80000000 hex) it means that the UID is being used as the GID. (This can occur in hierarchical zones.)

- Personal information from the GECOS field.
- The user's home directory.
- The user's default login shell.
- Whether the user is enabled or disabled (in classic zones only).

Examples

list_zone_users

This example returns the list of users similar to this:

```
adam.avery@acme.com:adam:10001:10001:%\{u:samaccountname\}:%\{home\}/%\{user\}:%\{shell\}:ben.brown@acme.com:brenda:10002:10002:<math>%\{u:samaccountname\}:%\{home\}/%\{user\}:%\{shell\}:chris.cain@acme.com:chris:10003:10003:<math>%\{u:samaccountname\}:%\{home\}/%\{user\}:%\{shell\}:
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone users:

- get_zone_users returns a Tcl list of the Active Directory names of zone users in the current zone.
- new zone user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

manage_dz

Use the manage_dz command to enable or disable authorization in classic zones. In classic zones, authorization-related features are disabled by default, and the authorization store that is required for managing rights, roles, and restricted environment is not available in Active Directory.

To enable authorization in classic zones using ADEdit, you can run the manage_dz``-on command. This command creates the authorization store if it does not exist, and sets the zone property that enables privilege elevation service features.

To disable authorization in a classic zone, you can run the manage_dz-off command. Running this command disables authorization services. The command does not remove any existing authorization data from Active Directory.

Zone Type

Classic only

Syntax

manage_dz [-on |-off]

Abbreviation

mnz

Options

This command takes the following options:

Option	Description
-on	Enables authorization for the currently selected zone and creates the authorization data store if it not currently defined in Active Directory.
-off	Disables authorization for the currently selected zone. This option does not remove any data from the authorization data store if it currently exists.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

```
create_zone classic4 cn=c125,cn=zones,dc=ross,dc=net
select_zone cn=c125,cn=zones,dc=ross,dc=net
is_dz_enable
0
```

ADEdit Command Reference

```
manage_dz -on
is_dz_enable
1
```

This code example creates a zone, checks that authorization is disabled by default, then enables authorization for the zone.

Related Commands

The following command performs actions related to this command:

is_dz_enabled checks whether authorization is currently enabled for a zone.

move object

Use the move_object command to move the selected object to the specified location. The new location must be in the same domain. You cannot use this command to move an object to another domain. You do not need to save the object after moving it.

Zone Type

Not applicable

Syntax

move_object destination

Abbreviation

mvo

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
destination	string	Required. Specifies the distinguished name of the new location.

Return Value

This command returns nothing if it runs successfully.

Example

The following commands move the ApacheAdmins group from the Groups container in the Global zone to the Groups container in the US zone.

select_object

"cn=ApacheAdmins@demo.test,cn=Groups,cn=Global,cn=Zones,CN=Acme,dc=demo,dc=test" mvo

"cn=Groups, cn=US, cn=Zones, ou=Acme, dc=demo, dc=test"

Related Commands

The following command performs actions related to this command:

select_object selects the object you want to move.

new_dz_command

Use the new_dz_command command to create a new UNIX command object for the current zone and sets the new command as the currently selected command in memory. The new command has no field values set. The new_dz_command does not save the new command to Active Directory. To save the UNIX command, you must first set at least the "command" field using set_dzc_field, then use save_dz_command. If you don't save a new UNIX command, it will disappear when you select a new command or when the ADEdit session ends.

You can only use the new_dz_command command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

new_dz_command _name_

Abbreviation

newdzc

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new UNIX command.

Return Value

This command returns nothing if it runs successfully.

Examples

new_dz_command account_manager

This example creates a new UNIX command named account manager in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select UNIX commands:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands returns a list of all UNIX commands in the currently selected zone.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

new_local_group_profile

Use the new_local_group_profile command to create an object for a local UNIX or Linux group in the currently selected zone. After you create the group object, it is automatically selected for editing with the set_local_group_profile_field command. That is, you do not need to execute the select_local_group_profile command to select the new group prior to defining profile fields. After you create the new group, save it by executing the save_local_group_profile command.

When the group profile is complete and the profileflag field is set to 1 (enabled), the profile is added to /etc/group on each UNIX and Linux computer in the zone at the next local account refresh interval. A group profile must have the following fields (attributes) to be considered complete:

- A unique numeric identifier (GID).
- A group name.

See the Administrator's Guide for Linux and UNIX for more details about creating local group profiles.

Zone Type

Hierarchical only.

Syntax

new_local_group_profile group_name

Abbreviation

newlgp

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
group_name	string	Required. Specifies the UNIX name of the new local group to create in the zone.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example shows a typical sequence of commands to create an object for the local UNIX or Linux group marketing in the currently selected zone. This command sequence creates a complete group profile, and sets the profile flag to 1 (enabled) so that the profile is added to /etc/group at the next local account update interval.

```
new_local_group_profile marketing
set_local_group_profile_field gid 3004
set_local_group_profile_field member lam_usr4
set_local_group_profile_field profileflag 1
save_local_group_profile
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- qet_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- qet_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.

- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group
 that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

new_local_user_profile

Use the new_local_user_profile command to create an object for a local UNIX or Linux user in the currently selected zone. After you create the user object, it is automatically selected for editing with the set_local_user_profile_field command. That is, you do not need to execute the select_local_user_profile command to select the new user prior to defining profile fields. After you create the new user, save it by executing the save_local_user_profile command.

Note: Unlike local groups, which are visible by default, you must explicitly assign local users to a visible role. If you do not assign a local user to a visible role, the user profile defined in the zone object is not updated in /etc/passwd on local computers. A predefined visible role for local users, local listed, is provided to make local users visible. After you create a local user profile, you must assign the local user to the local listed role, or to another visible role. You can use the select_role_assignment and new_role_assignment ADEdit commands to make role assignments.

When the user profile is complete and the profileflag field is set to 1 (enabled) or 2 (disabled), the profile is added to /etc/passwd on each UNIX and Linux computer in the zone at the next local account refresh interval.

A user profile must have the following fields (attributes) to be considered complete:

- A user name (the UNIX login name).
- A unique numeric user identifier (UID).
- The user's primary group profile numeric identifier (GID).
- The default home directory for the user.
- The default login shell for the user.

Note that the GECOS field is not required.

See the Administrator's Guide for Linux and UNIX for more details about creating local user profiles.

Zone Type

Hierarchical only.

Syntax

new_local_user_profile user_name

Abbreviation

newlup

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_name	string	Required. Specifies the UNIX name of the new local user to create in the zone.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example shows a typical sequence of commands to create an object for the local UNIX or Linux user lam_usr4 in the currently selected zone. This command sequence creates a complete user profile, sets the profile flag to 1 (enabled), and adds the user to the local listed role so that the profile is added to /etc/passwd at the next local account update interval.

```
new_local_user_profile lam_usr4
set_local_user_profile_field uid 2004
set_local_user_profile_field gid 2004
set_local_user_profile_field shell /bin/bash
set_local_user_profile_field home /home/lam_usr4
set_local_user_profile_field profileflag 1
save_local_user_profile
select_role_assignment local listed
new_role_assignment lam_usr4
```

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.

- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

new nis map

Use the new_nis_map command to create a new NIS map for the current zone and set the new NIS map as the currently selected NIS map in memory. The new NIS map has no map entries.

The new_nis_map does not save the new NIS map to Active Directory. To save the new map, you must use save_nis_map. If you don't save a new NIS map, it will disappear when you select a new NIS map or when the ADEdit session ends.

Zone Type

Not applicable

Syntax

new_nis_map [-automount] map

Abbreviation

newnm

Options

This command takes the following option:

Option	Description
-automount	Specifies that the new NIS map is an automount map. For most NIS maps, the map name defines the type of map you are creating. For example, if you create a new NIS map with the name netgroup, it must be a NIS netgroup map and contain valid netgroup entries. However, you can specify any name for NIS automount maps. Use this option to identify automount maps that have a name other than automount.

Arguments

This command takes the following argument:

Argument	Туре	Description
map	string	Required. Specifies the name of the new NIS map. For most NIS maps, the map name defines the type of map you are creating. For example, if you create a new NIS map with the name netgroup, it must be a NIS netgroup map and contain valid netgroup entries. For information about the type of NIS maps you can create, see the_Network Information Service Administrator's Guide

Return Value

This command returns nothing if it runs successfully.

Examples

The following command creates the NIS map "Printers" in the current zone. $\label{eq:command}$

new_nis_map Printers

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select NIS maps:

- get_nis_maps returns a Tcl list of NIS maps in the current zone.
- list_nis_maps lists to stdout the NIS maps in the current zone.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

- *add_map_entryor add_map_entry_with_comment adds an entry to the current NIS map stored in memory.
- delete_map_entry removes an entry from the current NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the current NIS map.
- get_nis_map_field reads a field value from the current NIS map.

- list_nis_map or list_nis_map_with_comment lists to stdout the map entries in the current NIS map.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

new_object

Use the new_object command to create a new Active Directory object and set the new object as the currently selected Active Directory object in memory. The new object has no field values set. The new_object command does *not* save the new object to Active Directory. To save the new object, you must use save_object. If you don't save a new object, it will disappear when you select a new object or when the ADEdit session ends.

The new_object command does not check to see if the new object conforms to Active Directory's expectations for the new object in the location you specify. Active Directory will report any errors when you try to save the object.

Zone Type

Not applicable

Syntax

new_object dn

Abbreviation

newo

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
dn	DN	Required. Specifies the distinguished name for the new object.

Return Value

This command returns nothing if it runs successfully.

Examples

new_object "ou=Acme,cn=Program Data,dc=acme,dc=com"

This example creates a new organizational unit Delinea in the container Program Data in the domain acme.com and stores it in memory as the currently selected Active Directory object.

Related Commands

The following commands enable you to view and select Active Directory objects:

ADEdit Command Reference

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects matching the specified search criteria.
- select_object retrieves an object with its attributes from Active Directory and stores it in memory.

After you have an object stored in memory, you can use the following commands to work with that object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_fieldsets a field value in the currently selected Active Directory object.

new_pam_app

Use the new_pam_app command to create a new PAM application right for the current zone and set the new PAM application as the currently selected PAM application in memory. The new PAM application has no field values set.

The new_pam_app does not save the new PAM application to Active Directory. To save the PAM application right, you must first set at least the "application" field using set_pam_field, then use save_pam_app. If you don't save a new PAM application, it will disappear when you select a new PAM application or when the ADEdit session ends.

You can only use the new_pam_app to create PAM application rights if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax 1 4 1

new_pam_app name

Abbreviation

newpam

Options

This command takes no options.

Arguments

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new PAM application access right.

This command returns nothing if it runs successfully.

Examples

new_pam_app basic

This example creates a new PAM application access right named basic in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select PAM application rights:

- get_pam_apps returns a Tcl list of PAM application rights in the current zone.
- list_pam_apps lists to stdout the PAM application rights in the currently selected zone.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory.

After you have a PAM application right stored in memory, you can use the following commands to work with that PAM application right:

- delete_pam_app deletes the selected PAM application right from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application right.
- save_pam_app saves the selected PAM application right with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application right.

new_role

Use the new_role command to create a new role for the current zone and set the new role as the currently selected role in memory. The new role has no field values set. The new_role command does *not* save the new role to Active Directory. To save the new role, you must use save_role. If you don't save a new role, it will disappear when you select another role or when the ADEdit session ends.

You can only use the new_role to create a role if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

new_role _name

Abbreviation

newr

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new role.

Return Value

This command returns nothing if it runs successfully.

Examples

new_role customerservice

This example creates a new role named customerservice in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select roles:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add command to roleadds a UNIX command to the current role.
- add_pamapp_to_role adds a PAM application to the current role.
- delete_role deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications associated with the currently selected role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- get_role_field reads a field value from the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM application rights associated with the current role.
- remove_command_from_role removes a UNIX command from the current role.
- remove_pamapp_from_role removes a PAM application from the current role.

- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the currently selected role.

new_role_assignment

Use the new_role_assignment command to create a new role assignment for the current zone and set the new role assignment as the currently selected role assignment in memory. The new role assignment has no field values set.

The new_role_assignment command does *not* save the new role assignment to Active Directory. To save the role assignment, you must first set at least the "role" field using set_role_assignment_field, then use save_role_assignment. If you don't save a new role assignment, it will disappear when you select another role assignment or when the ADEdit session ends.

You can only use the new_role_assignment to create a role assignment if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

new_role_assignment user|All AD users|All Unix users

Abbreviation

newra

Options

This command takes no options.

Arguments

Argument	Туре	Description
user All AD users All Unix users	string	Required. Specifies the user or group to assign the role to. This argument can be a user principal name (UPN) or a sAMAccountName if you are assigning a role to an Active Directory user or group, a UNIX user name or UID if assigning the role to a local UNIX group name if you assigning the role to a local UNIX group. To assign a role to a local UNIX account, use the following format: oracle@localhost To assign the role to a domain user, use the following format: oracle@domain.name You can also specify "All AD users" to assign a selected role to all Active Directory users or "All Unix users" to assign the selected role to all local UNIX users. This argument is not supported if the selected zone is a classic4 zone.

This command returns nothing if it runs successfully.

Examples

new_role_assignment adam.avery@acme.com

This example creates a new role assignment for adam.avery@acme.com in the current zone. You must set at least one role assignment field and an available time for the role to be effective.

The following example creates a new role assignment for the local UNIX user oracle in the current zone. new_role_assignment oracle@localhost

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select role assignment to work with:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout the role assignments in the current zone.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment's attributes, delete the role assignment, or save information for the role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the currently selected role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the currently selected role assignment.
- write_role_assignment saves the selected role assignment to a file.

new_rs_command

Use the new_rs_command command to create a new restricted shell command under the currently selected restricted shell environment and set the new restricted shell command as the currently selected restricted shell command in memory. The umask field for the new restricted shell command is set to a default value of 077 and default priority field (pri) is set to 0. For more information about restricted shell command fields, see the command description for get_rsc_field.

The new_rs_command command does not save the new restricted shell command to Active Directory. To store the new restricted shell command in Active Directory, you must use save_rs_command. If you don't save a new restricted shell command, it will disappear when you select another restricted shell command or when the ADEdit session ends.

You can only use the new_rs_command command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

new_rs_command name

Abbreviation

newrsc

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new restricted shell command.

Return Value

This command returns nothing if it runs successfully.

Examples

new_rs_command rsc1

This example creates a new restricted shell command named rsc1 in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.
- set_rsc_field sets a field value in the currently selected command.

new_rs_env

Use the new_rs_env command to create a new restricted shell environment for the current zone and set the new restricted shell environment as the currently selected restricted shell environment stored in memory. The new restricted shell environment has no field values set.

The new_rs_env command does not save the new restricted shell environment to Active Directory. To save the new restricted shell environment to Active Directory, you must use the save_rs_env command. If you don't save a new restricted shell environment, it will disappear when you select another restricted shell environment or when the ADEdit session ends.

You can only use the new_rs_env command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

new_rs_env name

Abbreviation

newrse

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new restricted shell environment.

Return Value

This command creates a new restricted shell environment in the currently selected zone.

Examples

new_rs_envs rse3

This example creates a new restricted environment named rse3 in the current zone.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.
- set_rse_field sets a field value in the current restricted shell environment.

new_zone_computer

Use the new_zone_computer command to create a new zone computer in the current zone and set the new zone computer as the currently selected zone computer in memory. The new zone computer has no field values set.

The new_zone_computer command does *not* save the new zone computer to Active Directory. To save the new zone computer, you must use save_zone_computer. If you don't save a new zone computer, it will disappear when you select another zone computer or when the ADEdit session ends.

The new_zone_computer command requires you to specify an Active Directory computer account name. If the computer name you specify is not found in Active Directory, the command does not create the zone computer.

Zone Type

Classic and hierarchical

Syntax

new_zone_computer sAMAccountName@domain

Abbreviation

newzc

Options

This command takes no options.

Arguments

Argument	Туре	Description
sAMAccountName @domain	string	Required. Specifies the sAMAccountName of an Active Directory computer followed by @ and the domain name where the computer is located.

This command returns nothing if it runs successfully.

Examples

new_zone_computer sales2\$@acme.com

This example creates a new zone computer sales2@acme.com in the current zone. Note that Tcl syntax requires \$@ to represent an actual ampersand symbol @. You could also enclose the argument in braces: {sales2@acme.com}.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the zone computers:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.
- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

new zone group

Use the new_zone_group command to create a new group in the current zone that is based on an existing Active Directory group. If the command is successful, the new zone group becomes the currently selected zone group stored in memory.

The new_zone_group command does not set any field values or save the new zone group to Active Directory.

Before you can save the new zone group, you must first set at least one field for the new zone group using the set_zone_group_field command. You can then save the zone group profile using the save_zone_group command.

Note:If the currently selected zone is a classic zone, you must set all fields for the new zone group before saving the group profile.

If you don't save a new zone group, it will disappear when you select another zone group or end the ADEdit session.

The new_zone_group command requires you to specify an Active Directory group name. The command will search for the group first by the supplied UPN in the specified domain, then by the **sAMAccountname** in the specified domain, then by the supplied UPN in any bound domain. If the group name cannot be found, the new zone group is not created.

Zone Type

Classic and hierarchical

Syntax

new_zone_group AD_group_UPN

Abbreviation

newzg

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
AD_group_UPN	string	Required. Specifies the user principal name (UPN) of an Active Directory group.

Return Value

This command returns nothing if it runs successfully.

Examples

new_zone_group poweradmins@acme.com

This example creates a new zone group named poweradmins@acme.com in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- get_zone_groups returns a Tcl list of the Active Directory names of all zone groups in the current zone.
- list_zone_groups lists to stdout the zone groups in the current zone.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_field reads a field value from the current zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the current zone group.

new zone user

Use the new_zone_user command to create a new zone user in the current zone based on an existing Active Directory user. If the command is successful, the new zone user becomes the currently selected zone user stored in memory.

The new_zone_user command does not set any field values or save the new zone user to Active Directory. Before you can save the new zone user, you must first set at least one field value using the set_zone_user_field command. You can then save the zone user profile using the save_zone_user command.

Note:If the currently selected zone is a classic zone, you must set all fields for the new zone user before saving the user profile.

If you don't save a new zone user, it will disappear when you select another zone user or end the ADEdit session.

You can create more than one zone user within a zone based on a single Active Directory user. The first zone user you create uses the Active Directory user's user principal name (UPN), for example, martin.moore@acme.com. Any other zone users you create for the same Active Directory user must use aliases. An alias is the Active Directory user's UPN with +n appended where n is a positive integer that is unique for this Active Directory user in this zone. For example, martin.moore@acme.com+1 is an alias, as is martin.moore@acme.com+5. Alias integers need not be consecutive or in order. (Note that SFU zones do not support user aliases.)

The new_zone_user command requires you to specify Active Directory user name. The command will search for the user first by the supplied UPN in the specified domain, then by the **sAMAccountname** in the specified domain, then by the supplied UPN in any bound domain. If the user name cannot be found, the new zone user is not created.

Zone Type

Classic and hierarchical

Syntax

new_zone_user AD_user_UPN

Abbreviation

newzu

Options

This command takes no options.

Arguments

Argument	Туре	Description
AD_user_ UPN	string	Required. Specifies the user principal name (UPN) of an Active Directory user. If you are specifying an alias, append the UPN with "+" followed by a positive integer that is unique for this user and the zone.

This command returns nothing if it runs successfully.

Examples

new_zone_user adam.avery@acme.com

This example creates a new zone user based on the Active Directory user adam.avery@acme.com in the current zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone user:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone.
- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

pop

Use the pop command to retrieve a previously-stored context of bindings and selected objects from the top of the context stack. This command replaces the current ADEdit context with the retrieved context. Popping a context from the context stack removes the context from the stack.

This command is useful for Tcl scripts that use subroutines. A push can save the context before it's altered in the subroutine; a pop can return the saved context when the subroutine returns.

Zone Type

Not applicable

Syntax

gog

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully. If the stack is empty, it returns a message stating so.

Examples

pop

This example retrieves the context from the top of the context stack and uses it as the current ADEdit context.

Related Commands

The following commands perform actions related to this command:

- show returns the current context of ADEdit, including its bound domains and its currently selected objects.
- push saves the current ADEdit context to the ADEdit context stack.

principal from sid

Use the principal_from_sid command look up the security principal for a specified security identifier (SID) in Active Directory. If the security identifier is found, the command returns the Active Directory name of the principal.

Zone Type

Not applicable

Syntax

principal_from_sid [-upn] sid

Abbreviation

pfs

Options

This command takes the following option:

Option	Description
-upn	Returns the user names in user principal name (UPN) format, not the default sAMAccount@domain format.

Arguments

Argument	Туре	Description
sid	string	Required. Specifies the security identifier of an Active Directory security principal.

This command returns the Active Directory name of the principal if it finds a principal. If it does not find a principal, it returns a message stating so.

Examples

principal_from_sid S-1-5-21-2076040321-3326545908-468068287-1159

This example returns the principal name: oracle_machines@acme.com

Related Commands

The following commands perform actions related to this command:

- principal_to_dn searches Active Directory for a user principal name (UPN) and, if found, returns the corresponding distinguished name (DN).
- dn_to_principal searches Active Directory for a distinguished name (DN) and, if found, returns the corresponding user principal name (UPN).

principal_to_dn

Use the principal_to_dn command to search Active Directory for the specified user principal name (UPN) of a security principal (user, machine, or group). If a security principal is found for the specified UPN, the command returns the distinguished name (DN) of the principal.

Zone Type

Not applicable

Syntax

principal_to_dn principal_upn

Abbreviation

ptd

Options

This command takes no options.

Arguments

Argument	Туре	Description
principal_upn	string	Required. Specifies the user principal name (UPN) of a security principal.

This command returns a distinguished name. If the command doesn't find the specified security principal in Active Directory, it presents a message that it didn't find the principal.

Examples

principal_to_dn brenda.butler@acme.com

This example returns the distinguished name for the specified UPN:

cn=brenda butler,cn=users,dc=acme,dc=com

Related Commands

The following commands perform actions related to this command:

- dn_from_domain converts a domain's dotted name to a distinguished name.
- get_parent_dn returns the parent of an LDAP path as a distinguished name.
- get_rdn returns the relative distinguished name of an LDAP path.
- dn_to_principal searches Active Directory for a distinguished name, and, if found, returns the corresponding user principal name (UPN).
- principal_from_sid searches Active Directory for a security identifier and returns the security principal associated with the security identifier.

principal_to_id

Use the principal_to_id command to search Active Directory for the specified user principal name (UPN) of a user or group security principal. If a security principal is found for the specified UPN, the command returns the numeric identifier for the principal.

Zone Type

Not applicable

Syntax

principal_to_id [-apple] upn

Abbreviation

pti

Options

This command takes the following option:

Option	Description
-apple	Specifies that you want to use the Apple scheme for generating the UID or GID for the specified user or group principal. If you don't specify this option, the UID or GID returned is based on the Delinea Auto Zone scheme.

Arguments

This command takes the following argument:

Argument	Туре	Description
upn	string	Required. Specifies the user principal name (UPN) of a user or group security principal.

Return Value

This command returns a unique UID or GID based on either the Apple methodology or the Delinea Auto Zone methodology for generating numeric identifiers. If the user or group principal is not found in Active Directory, the command returns an error message indicating that it didn't find the principal.

Examples

principal_to_id -apple brenda.butler@acme.com

This example returns the UID for the specified user generated using the Apple scheme:

1983765448

Related Commands

The following commands perform actions related to this command:

- guid_to_id accepts a globally unique identifier (GUID) for a user or group and returns a UID or GID generated using the Apple scheme.
- principal_from_sid searches Active Directory for a security identifier and returns the security principal associated with the security identifier.

push

Use the push command to save the current ADEdit context—its bindings and selected objects in memory—to a context stack. This command leaves the current context in place, so all current bindings and selected objects remain in effect in ADEdit after the push.

This command is useful for Tcl scripts that use subroutines. You can use the push command to save the context before it's altered in the subroutine. You can then use the popcommand to retrieve the saved context when the subroutine returns.

Zone Type

Not applicable

Syntax

push

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing.

Examples

push

The example saves the current ADEdit context.

Related Commands

The following commands perform actions related to this command:

- show returns the current context of ADEdit, including its bound domains and currently selected objects.
- poprestores the context from the top of the ADEdit context stack to ADEdit.

quit

Use the quit command to quit ADEdit and return to the shell from which ADEdit was launched. You can also end an interactive ADEdit session by pressing Ctrl-D or entering exit.

Note: If you enter the exit command, understand that it will terminate the session immediately without performing a commit operation.

Zone Type

Not applicable

Syntax

quit

Abbreviation

q

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing.

Examples

quit

This example ends an ADEdit session.

Related Commands

None.

remove_command_from_role

Use the remove_command_from_rolecommand to remove a UNIX command from the currently selected role stored in memory.

Theremove_command_from_rolecommand does not change the role as it is stored in Active Directory. You must save the role before the removed command takes effect in Active Directory. If you select another role or quit ADEdit before saving the role, any UNIX commands you have removed since the last save won't take effect.

You can only use the remove_command_from_rolecommand if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

remove_command_from_role command[/zonename]

Abbreviation

rcfr

Options

This command takes no options.

Arguments

Argument	Туре	Description
command [/zonename]	string	Required. Specifies the name of a UNIX command to remove from the currently selected role. If the UNIX command that you want to remove is defined in the current zone, the <i>zonename</i> argument is optional. If the UNIX command right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific command to remove.

This command returns nothing if it runs successfully.

Examples

remove_command_from_role basicshell/global

This example removes the UNIX command named basicshell, which is defined in the global zone, from the currently selected role.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_roleadds a UNIX command to the current role.
- add_pamapp_to_role adds a PAM application to the current role. 'delete_role" deletes the selected role from Active Directory and from memory.
- get_role_apps returns a Tcl list of the PAM applications associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the current role.
- remove_pamapp_from_role removes a PAM application from the current role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the current role.

remove_object_value

Use the remove_object_value command to remove a value from a multi-valued attribute of a specified Active Directory object. This command only affects the specified attribute for specified object in Active Directory. The command does not change the currently selected Active Directory object in memory, if there is one.

If the field or value to be removed isn't valid, Active Directory will report an error and remove_object_value won't remove the value.

This command is useful for fields that may be very large—members of a group, for example.

Zone Type

Not applicable

Syntax

remove_object_value dn field value

Abbreviation

rov

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
dn	string	Required. Specifies the distinguished name (DN) of the Active Directory object from which to remove a value.
field	string	Required. Specifies the name of a multi-valued attribute in the currently selected Active Directory object from which to remove the value. This argument can be any field that is valid for the type of the Active Directory object you have specified using the <i>dn</i> argument. For example, if the Active Directory object specified is a computer object, the <i>field</i> argument might be operatingSystem.
value		Required. Specifies the value to remove from the field. The data type of the <i>value</i> depends on the <i>field</i> you specify.

Return Value

This command returns nothing if it runs successfully.

Examples

remove_object_value cn=groups,dc=acme,dc=com users adam.avery

This example removes the value adam. avery from the users field of the groups object in Active Directory.

Related Commands

The following commands enable you to view and select the object to work with:

ADEdit Command Reference

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects matching the search criteria.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object and its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_field sets a field value in the currently selected Active Directory object.

remove_pamapp_from_role

Use the remove_pamapp_from_role command to remove a PAM application access right from the currently selected role stored in memory.

The remove_pamapp_from_role command does not change the role as it is stored Active Directory. To remove the PAM application right from the role stored in Active Directory, you must save your changes using the save_role command. If you select another role or quit ADEdit before saving the role, any PAM applications you've removed since the last save won't take effect.

You can only use the remove_pamapp_from_role command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

remove_pamapp_from_role app[/zonename]

Abbreviation

rpamfr

Options

This command takes no options.

Arguments

Argument	Туре	Description
app [/zonename]	string	Required. Specifies the name of a PAM application right to remove from the currently selected role. If the PAM application right that you want to remove is defined in the current zone, the <i>zonename</i> argument is optional. If the PAM application right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific PAM application right to remove.

This command returns nothing if it runs successfully.

Examples

remove_pamapp_from_role ftp-all

This example removes the PAM application right named ftp-all defined in the currently selected zone from the currently selected role.

To remove the PAM application right when it is defined in the seattle zone, you would include the zone name: remove_pamapp_from_role ftp-all/seattle

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with:

- get roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- *add_command_to_roleadds a UNIX command to the current role.
- add_pamapp_to_role adds a PAM application to the current role. 'delete_role" deletes the selected role from Active Directory and from memory. *get_role_apps returns a Tcl list of the PAM applications associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- list_role_rights returns a list of all UNIX commands and PAM applications associated with the current role.
 *remove_command_from_roleremoves a UNIX command from the current role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the current role.

remove_sd_ace

Use the remove_sd_ace command to remove an access control entry (ACE) in ACE string form from a security descriptor (SD) in SDDL (security descriptor description language) form.

The command looks for the supplied ACE string within the supplied SDDL string. If the command finds the ACE string, it removes it from the SDDL string and returns the SDDL string.

Zone Type

Not applicable

Syntax

remove_sd_ace sddl_string ace_string

Abbreviation

rsa

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
sddl_string	string	Required. Specifies a security descriptor in SDDL format.
ace_string	string	Required. Specifies an access control entry in ACE string form, which is always enclosed in parentheses.

Return Value

This command returns a modified security descriptor in SDDL format if it runs successfully.

Examples

This example removes the first ACE string from an SDDL. The ACE string to remove is at the end of the command

```
(A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY):
```

```
remove_sd_ace O:DAG:DAD:AI (A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY)
(A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA) (OA;;CCDC;bf967aba-0de6-11d0-a285-00aa003049e2;;AO)
(OA;;CCDC;bf967a9c-0de6-11d0-a285-00aa003049e2;;AO) (OA;;CCDC;bf967aa8-0de6-11d0-a285-00aa003049e2;;PO) (A;;RCLCRPLO;;;AU) (OA;;CCDC;4828cc14-1437-45bc-9b07-ad6f015e5f28;;AO)
(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
(OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
```

```
(OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RCLCRPLO;;bf967a9c-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS) (A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;BA) (A;CIID;LC;;;RU) (A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA) (A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SA)
```

The command returns the SDDL string without the first ACE string:

```
O:DAG:DAD:AI (A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA) (OA;;CCDC;bf967aba-0de6-11d0-a285-
00aa003049e2;;A0) (OA;;CCDC;bf967a9c-0de6-11d0-a285-00aa003049e2;;A0) (OA;;CCDC;bf967aa8-
Ode6-11d0-a285-00aa003049e2;;p0) (A;;RCLCRPLO;;;AU) (OA;;CCDC;4828cc14-1437-45bc-9b07-
ad6f015e5f28;;AO) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-
00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-
00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-
O0aa003049e2;ED) (OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RCLCRPLO;;bf967a9c-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-
Ode6-11d0-a285-00aa003049e2;RU) (OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS)
(A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;EA) (A;CIID;LC;;;RU)
(A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA) (A;;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;SY)
```

Related Commands

The following commands enable you to work with security descriptor strings:

- add_sd_ace adds an access control entry to a security descriptor.
- explain_sd converts an SD in SDDL format to a human-readable form.
- set_sd_owner sets the owner of a security descriptor.

rename_object

Use the rename_object command to rename the selected object. You can replace only the first relative distinguished name in the selected object. You do not need to save the object after you change the name.

Zone Type

Not applicable

Syntax

rename_object name

Abbreviation

rno

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name	string	Required. Specifies the replacement relative distinguished name for the first relative distinguished name in the selected object.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example selects the user object Lois Lane and changes her name to LoisLane: select_object "cn=Lois Lane,cn=Users,dc=demo,dc=test"rename_object LoisLane
The following example selects the organizational unit UnixServers an renames it to UNIX Servers: select_object"ou=UnixServers,ou=Acme,dc=demo,dc=test" rno "UNIX Servers"
In both examples, quotes are required to preserve spaces in object names.

Related Commands

The following command performs actions related to this command:

select_object selects the object you want to rename.

save_dz_command

Use the save_dz_command command to save the currently selected UNIX command stored in memory to Active Directory. You must save a UNIX command for any changes you make using ADEdit to take effect in Active Directory. If you select another UNIX command or end the ADEdit session before saving the currently selected UNIX command, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_dz_command

Abbreviation

svdzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_dz_command

This example saves the currently selected UNIX command to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- set_dzc_field sets a field value in the currently selected command.

save_local_group_profile

Use the save_local_group_profile command to save the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.

Whenever you execute the new_local_group_profile or select_local_group_profile command, the group continues to be selected until you execute the save_local_group_profile command.

You can save a group object before the group profile is complete. However, the group profile is not added to /etc/group on each UNIX and Linux computer in the zone until the group profile is complete and the profileflag field is set to 1 (enabled). See new_local_group_profile for details about which attributes a group profile must have to be considered complete.

Zone Type

Hierarchical only.

Syntax

save_local_group_profile

Abbreviation

svlgp

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example saves the currently selected object for the local UNIX or Linux group in the currently selected zone.

save_local_group_profile``

For example, earlier you might have executed the following command to select the marketing group object so that you could edit its profile fields:

select_local_group_profile marketing

Executing the following command would save any changes you had made to the marketing group object:

save_local_group_profile

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.

- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- qet_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

save_local_user_profile

Use the save_local_user_profile command to save the currently selected local UNIX or Linux user object after you create the user object or edit profile field values in the user object.

Whenever you execute the new_local_user_profile or select_local_user_profile command, the user continues to be selected until you execute the save_local_user_profile command.

You can save a user object before the user profile is complete. However, the user profile is not added to /etc/passwd on each UNIX and Linux computer in the zone until the user profile is complete, the profileflag field is set to 1 (enabled) or 2 (disabled), and the user is assigned a visible role such as local listed. See new_local_user_profile for details about which attributes a user profile must have to be considered complete.

Zone Type

Hierarchical only.

Syntax

save_local_user_profile

Abbreviation

svlup

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

T'his command returns nothing if it runs successfully.

Examples

The following example saves the currently selected object for the local UNIX or Linux user in the currently selected zone.

save_local_user_profile

For example, earlier you might have executed the following command to select the object for UNIX user anton.splieth so that you could edit its profile fields:

select_local_user_profile anton.splieth

Executing the following command would save any changes you had made to the user object for anton.splieth: save_local_user_profile

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_field displays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.

ADEdit Command Reference

- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

save_nis_map

Use the save_nis_map command to save the currently selected NIS map stored in memory to Active Directory. You must save the NIS map for any changes you make using ADEdit to take effect in Active Directory. If you select another NIS map or end the ADEdit session before saving the currently selected NIS map, your changes will be lost.

Zone Type

Not applicable

Syntax

save_nis_map

Abbreviation

svnm

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_nis_map

This example saves the currently selected NIS map to Active Directory.

Related Commands

Before you use this command, you must have a currently selected NIS map stored in memory. The following commands enable you to view and select a NIS map:

ADEdit Command Reference

- get_nis_maps returns a Tcl list of NIS maps in the current zone.
- list_nis_maps lists to stdout the NIS maps in the current zone.
- new_nis_map creates a new NIS map and stores it in memory.
- select_nis_map retrieves a NIS map from Active Directory and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

*add_map_entryor add_map_entry_with_comment adds a map entry to the currently selected NIS map.

- delete_map_entry removes an entry from the currently selected NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the currently selected NIS map.
- get_nis_map_field reads a field value from the currently selected NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout the map entries in the currently selected NIS map.

save object

Use the save_object command to save the currently selected Active Directory object stored in memory to Active Directory. You must save the Active Directory object for any changes you make using ADEdit to take effect in Active Directory. If you select another Active Directory object or end the ADEdit session before saving the currently selected object, your changes will be lost.

If an object has invalid attributes or values or is the wrong class for the container where it's being saved, Active Directory will report an error and the object will not be saved.

Zone Type

Not applicable

Syntax

save_object

Abbreviation

svo

Options

This command takes no options.

Arguments

This command takes no arguments.

This command returns nothing if it runs successfully.

Examples

save_object

This example saves the currently selected Active Directory object to Active Directory.

Related Commands

The following commands enable you to view and select the object to work with:

- get_objects performs an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects matching the specified search criteria.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object and its attributes from Active Directory and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- set_object_field sets a field value in the currently selected Active Directory object.

save_pam_app

Use the save_pam_app command to save the currently selected PAM application access right stored in memory to Active Directory. You must save the PAM application right for any changes you make using ADEdit to take effect in Active Directory. If you select another PAM application right or end the ADEdit session before saving the currently selected PAM application right, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_pam_app

Abbreviation

svpam

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_pam_app

This example saves the currently selected PAM application to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a PAM application object:

- get_pam_apps returns a Tcl list of PAM applications in the current zone.
- list_pam_apps lists to stdout the PAM application rights in the current zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory.

After you have a PAM application right stored in memory, you can use the following commands to work with that PAM application:

- delete_pam_app deletes the selected PAM application from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application.
- set_pam_field sets a field value in the currently selected PAM application.

save_role

Use the save_role command to save the currently selected role stored in memory to Active Directory. You must save the role for any changes you make using ADEdit to take effect in Active Directory. If you select another role or end the ADEdit session before saving the currently selected role, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_role

Abbreviation

svr

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_role

This example saves the currently selected role to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select roles:

- get_roles returns a Tcl list of roles in the current zone.
- list roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_roleadds a UNIX command to the current role.
- add_pamapp_to_role adds a PAM application right to the current role.
- delete role deletes the selected role from Active Directory and from memory. *get_role_apps returns a Tcl list of the PAM application rights associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- get_role_field reads a field value from the current role.
- list_role_rights returns a list of all UNIX commands and PAM application rights associated with the current role. *remove_command_from_roleremoves a UNIX command from the current role.
- remove_pamapp_from_role removes a PAM application right from the current role.
- set_role_field sets a field value in the current role.

save_role_assignment

Use the save_role_assignment command to save the currently selected role assignment stored in memory to Active Directory. You must save the role assignment for any changes you make using ADEdit to take effect in Active Directory. If you select another role assignment or end the ADEdit session before saving the currently selected role assignment, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_role_assignment

Abbreviation

svra

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_role_assignment

This example saves the currently selected role assignment to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select role assignment to work with:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout the role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment's attributes, delete the role assignment, or save information for the role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the current role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the current role assignment.
- write_role_assignment saves the selected role assignment to a file.

save_rs_command

Use the save_rs_command command to save the currently selected restricted shell command that is stored in memory to Active Directory. You must save the restricted shell command for any changes you make using ADEdit to take effect in Active Directory. If you select another restricted shell command or end the ADEdit session before saving the currently selected restricted shell command, your changes will be lost.

Zone Type

Classic only

Syntax

save_rs_command``

Abbreviation

svrsc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_rs_command

This example saves the currently selected RSC to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

ADEdit Command Reference

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- set_rsc_field sets a field value in the currently selected command.

save_rs_env

Use the save_rs_env command to save the currently selected restricted shell environment that is stored in memory to Active Directory. You must save the selected restricted shell environment for any changes you make using ADEdit to take effect in Active Directory. If you select another restricted shell environment or end the ADEdit session before saving the currently selected restricted shell environment, your changes will be lost.

Zone Type

Classic only

Syntax

save_rs_env

Abbreviation

svrse

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_rs_env

This command saves the currently selected restricted shell environment to Active Directory.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- set rse field sets a field value in the current restricted shell environment.

save_zone

Use the save_zone command to save the currently selected zone stored in memory to Active Directory. You must save the selected zone for any changes you make using ADEdit to take effect in Active Directory. If you select another zone or end the ADEdit session before saving the currently selected zone, your changes will be lost.

This command only saves fields that are properties in the currently selected zone. The command does not save any users or groups added to a zone. You must save users and groups individually using the save_zone_user and save_zone_group commands.

Zone Type

Classic and hierarchical

Syntax

save_zone

Abbreviation

SVZ

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_zone

This example saves the currently selected zone or computer role to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone to work with:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- set_zone_field sets a field value in the currently selected zone.

save_zone_computer

Use the save_zone_computer command to save the currently selected zone computer stored in memory to Active Directory. You must set at least one field value before you can save a zone computer. In classic zones, you must set all field values before you can save a zone computer.

You must save the selected zone computer for any changes you make using ADEdit to take effect in Active Directory. If you select another zone computer or end the ADEdit session before saving the currently selected zone computer, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_zone_computer

Abbreviation

svzc

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_zone_computer

This example saves the currently selected zone computer to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the zone computers:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.
- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

save zone group

Use the save_zone_group command to save the currently selected zone group stored in memory to Active Directory. You must set at least one field value before you can save a zone group. In classic zones, you must set all field values before you can save a zone group.

You must save the selected zone group for any changes you make using ADEdit to take effect in Active Directory. If you select another zone group or end the ADEdit session before saving the currently selected zone group, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_zone_group

Abbreviation

svzg

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_zone_group

This example saves the currently selected zone group to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- get_zone_groups returns a Tcl list of the Active Directory names of all zone groups in the current zone.
- list_zone_groups lists to stdout the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_fieldreads a field value from the currently selected zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

save zone user

Use the save_zone_user command to save the currently selected zone user stored in memory to Active Directory. You must set at least one field value before you can save a zone user. In classic zones, you must set all field values before you can save a zone user.

You must save the selected zone user for any changes you make using ADEdit to take effect in Active Directory. If you select another zone user or end the ADEdit session before saving the currently selected zone user, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

save_zone_user

Abbreviation

svzu

Options

This command takes no options.

Arguments

This command takes no arguments.

Return Value

This command returns nothing if it runs successfully.

Examples

save_zone_user

This example saves the currently selected zone user to Active Directory.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone user:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone.
- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

select_dz_command

Use the select_dz_command command to retrieve a UNIX command in the currently selected zone from Active Directory. This command stores the selected UNIX command in memory, and makes it the currently selected UNIX command for subsequent ADEdit commands. The UNIX command remains selected until you select another UNIX command or zone, delete the UNIX command, or end the ADEdit session.

If you use ADEdit commands such as set_dzc_field to change settings for the selected UNIX command, you must save the selected UNIX command using the save_dz_command command for your changes to take effect in Active Directory. If you select another UNIX command or end the ADEdit session before saving the currently selected UNIX command, your changes will be lost.

You can only use the select_dz_command command to select UNIX commands if the currently selected zone is a classic4 or hierarchical zone. The command does not work for other types of zones.

Zone Type

Classic and hierarchical

Syntax

select_dz_command command

Abbreviation

sldzc

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
command	string	Required. Specifies the name of the UNIX command to select.

Return Value

This command returns nothing if it runs successfully.

Examples

select_dz_command account_manager

This example looks for the UNIX command named "account_manager" in the current zone and, if found, selects it as the current UNIX command.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command to work with:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.
- set_dzc_field sets a field value in the currently selected command.

select_local_group_profile

Use the select_local_group_profile command to select a local UNIX or Linux group object for viewing or editing. The group that you specify remains selected until you execute the save_local_group_profile command.

You typically use select_local_group_profile to select a group profile before you execute get_local_group_profile_field to view or edit profile information.

Zone Type

Hierarchical only.

Syntax

select_local_group_profile group_name

Abbreviation

sllgp

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
group_name	string	Required. Specifies the UNIX name of the local group to select.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example selects the object for the local UNIX or Linux group marketing. select_local_group_profile marketing

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_fielddisplays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

select_local_user_profile

Use the select_local_user_profile command to select a local UNIX or Linux user object for viewing or editing. The user that you specify remains selected until you execute the save_local_user_profile command.

You typically use select_local_user_profile to select a user profile before you execute get_local_user_profile_field to view or edit profile information.

Zone Type

Hierarchical only.

Syntax

select_local_user_profile user_name

Abbreviation

sllup

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_name	string	Required. Specifies the UNIX name of the local user to select.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example selects the object for the local UNIX or Linux user anton.splieth. select_local_user_profile anton.splieth

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.

ADEdit Command Reference

- get_local_group_profile_fielddisplays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- qet_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

select_nis_map

Use the select_nis_map command to retrieve a NIS map in the currently selected zone from Active Directory. This command stores the NIS map in memory, and makes it the currently selected NIS map for subsequent ADEdit commands. The NIS map remains selected until you select another NIS map or zone, delete the NIS map, or end the ADEdit session.

If you use ADEdit commands such asadd_map_entryto change settings for the selected NIS map, you must save the selected NIS map using the save_nis_map command for your changes to take effect in Active Directory. If you select another NIS map or end the ADEdit session before saving the currently selected NIS map, your changes will be lost.

Zone Type

Not applicable

Syntax

select_nis_map map

Abbreviation

slnm

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
map	string	Required. Specifies the name of the NIS map to retrieve from Active Directory.

Return Value

This command returns nothing if it runs successfully.

Examples

select_nis_map Printers

This example looks for the NIS map named "Printers" in the current zone and, if found, selects it as the current NIS map.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select NIS maps:

- get_nis_maps returns a Tcl list of NIS maps in the current zone.
- list_nis_maps returns a list to stdout of all NIS maps in the current zone.
- new_nis_map creates a new NIS map and stores it in memory.

After you have a NIS map stored in memory, you can use the following commands to work with that map:

- add_map_entryor add_map_entry_with_comment adds an entry to the current NIS map stored in memory.
- delete_map_entry removes an entry from the current NIS map.
- delete_nis_map deletes the selected NIS map from Active Directory and from memory.
- get_nis_map or get_nis_map_with_comment returns a Tcl list of the map entries in the current NIS map.
- get_nis_map_field reads a field value from the current NIS map.
- list_nis_map or list_nis_map_with_comment lists to stdout the map entries in the current NIS map.
- save_nis_map saves the selected NIS map with its current entries to Active Directory.

select_object

Use the select_object command to retrieve the specified Active Directory object and its attributes from Active Directory. This command stores the object in memory and makes it the currently selected Active Directory object. You can use options to retrieve the rootDSE of the object or to list specific attributes to retrieve for the object.

Zone Type

Not applicable

Syntax

select_object [-rootdse] [-attrs a1[,a2,...]] dn

Abbreviation

slo

Options

This command takes the following options:

Option	Description
-rootdse	Returns the rootDSE of the specified object instead of the object.
-attrs <i>a1</i> [,a2,]	Specifies the attributes to retrieve and store in memory. If you use this option, only the attributes you name (a1, a2, a3, and so on) are retrieved. This option is useful if you want to limit the number of attributes returned or want to return attributes not normally returned by Active Directory. If you do not use this option, ADEdit retrieves the attributes normally returned by Active Directory for the selected object type.

Arguments

This command takes the following argument:

Argument	Туре	Description
dn	DN	Required. Specifies the distinguished name (DN) of an Active Directory object.

Return Value

This command returns nothing if it runs successfully.

Examples

select_object "cn=users,dc=acme,dc=com"

This example returns the container object cn=users, dc=acme, dc=com and its attributes, and stores it in memory as the currently selected Active Directory object.

Related Commands

The following commands enable you to view and select the object to work with:

ADEdit Command Reference

- get_objectsperforms an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects matching the specified search criteria.
- new_object creates a new Active Directory object and stores it in memory.

After you have an Active Directory object stored in memory, you can use the following commands to work with that object's attributes, delete the object, or save information for the object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.
- set_object_field sets a field value in the currently selected Active Directory object.

select_pam_app

Use the select_pam_app command to retrieve a PAM application access right in the currently selected zone from Active Directory. This command stores the PAM application right in memory, and makes it the currently selected PAM application right for subsequent ADEdit commands. The PAM application right remains selected until you select another PAM application right or zone, delete the PAM application right, or end the ADEdit session.

If you use ADEdit commands such as set_pam_field to change settings for the selected PAM application right, you must save the selected PAM application right using the save_pam_app command for your changes to take effect in Active Directory. If you select another PAM application right or end the ADEdit session before saving the currently selected PAM application right, your changes will be lost.

You can only use the select_pam_app command to select PAM applications if the currently selected zone is a classic4 or hierarchical zone. The command does not work for other types of zones.

Zone Type

Classic and hierarchical

Syntax

select_pam_app name[/zonename]

Abbreviation

slpam

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
name [/zonename]	string	Required. Specifies the name of the PAM application right to select. If the PAM application right that you want to select is defined in the current zone, the <i>zonename</i> argument is optional. If the PAM application right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific PAM application right to select.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example retrieves the PAM application right named sftp in the current zone and makes it the currently selected PAM application right:

select_pam_app sftp

The following example retrieves the PAM application right named sftp defined in the chicago zone and makes it the currently selected PAM application right:

select_pam_app sftp/chicago

The definition for the PAM application right named sftp might be the same in both zones, but it is not required to be. Specifying the zone ensures you get the definition you expect.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. After you have a zone stored in memory, you can use the following commands to view and select the PAM application to work with:

- get_pam_apps returns a Tcl list of PAM application rights in the current zone.
- list_pam_apps lists to stdout the PAM application rights in the current zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory

After you have a PAM application stored in memory, you can use the following commands to work with that PAM application's attributes, delete the PAM application, or save information for the PAM application:

- delete_pam_app deletes the selected PAM application right from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application right.
- save_pam_app saves the selected PAM application right with its current settings to Active Directory.
- set_pam_field sets a field value in the currently selected PAM application right.

select role

Use the select_role command to retrieve a role in the currently selected zone from Active Directory. This command stores the role in memory, and makes it the currently selected role for subsequent ADEdit commands. The role remains selected until you select another role or zone, delete the role, or end the ADEdit session.

If you use ADEdit commands such as set_role_field to change settings for the selected role, you must save the selected role using the save_role command for your changes to take effect in Active Directory. If you select another role or end the ADEdit session before saving the currently selected role, your changes will be lost.

You can only use the select_role command to select roles if the currently selected zone is a classic4 or hierarchical zone. The command does not work for other types of zones.

Zone Type

Classic and hierarchical

Syntax

select_role role

Abbreviation

slr

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
role	string	Required. Specifies the name of the role to select.

Return Value

This command returns nothing if it runs successfully.

Examples

select_role servicerep

This example retrieves the role definition named servicerep in the current zone and makes it as the currently selected role.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a role:

ADEdit Command Reference

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

*add_command_to_roleadds a UNIX command right to the current role.

- add_pamapp_to_role adds a PAM application right to the current role.
- delete-role deletes the selected role from Active Directory and from memory. *get_role_apps returns a Tcl list of the PAM application rights associated with the current role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- get_role_field reads a field value from the current role.
- list_role_rights returns a list of all UNIX command and PAM application rights associated with the current role. *remove_command_from_roleremoves a UNIX command right from the current role.
- remove_pamapp_from_role removes a PAM application right from the current role.
- save_role saves the selected role with its current settings to Active Directory.
- set_role_field sets a field value in the current role.

select_role_assignment

Use the select_role_assignment command to retrieve a role assignment in the currently selected zone from Active Directory. This command stores the role assignment in memory, and makes it the currently selected role assignment for subsequent ADEdit commands. The role assignment remains selected until you select another role assignment or zone, delete the role assignment, or end the ADEdit session.

If you use ADEdit commands such as set_role_assignment_field to change settings for the selected role assignment, you must save the selected role assignment using the save_role_assignment command for your changes to take effect in Active Directory. If you select another role assignment or end the ADEdit session before saving the currently selected role assignment, your changes will be lost.

You can only use the select_role_assignment command to select role assignments if the currently selected zone is a classic4 or hierarchical zone. The command does not work for other types of zones.

Zone Type

Classic and hierarchical

Syntax

select_role_assignment principal/role[/zone]

Abbreviation

slra

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
principal/role [/zone]	string	Required. Specifies the user principal name (UPN) of the user or group to whom the role is assigned, followed by a slash (/) and the name of the role to assign to the principal. The <i>zone</i> argument is optional if the role is defined in the currently selected zone. If the role is defined in a zone other than the currently selected zone, the /zone argument is required.

Return Value

This command returns nothing if it runs successfully.

Examples

select_role_assignment poweradmins@acme.com/root/global

This example retrieves the role assignment that assigns the role named root, as defined in the global zone, to the principal named poweradmins@acme.com. The principal is a group.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a role assignment:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout the role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the currently selected role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the currently selected role assignment.
- write_role_assignment saves the selected role assignment to a file.

select_rs_command

Use the select_rs_command command to retrieve a restricted shell command in the currently selected zone from Active Directory, store it in memory, and set it as the currently selected restricted shell command for other ADEdit commands. After you select the restricted shell command to work with, it remains selected until you select a different restricted shell command, change the currently selected zone, delete the restricted shell command, or end the ADEdit session.

If you use ADEdit commands such as set_rsc_field to change settings for the selected restricted shell command, you must save the restricted shell command using the save_rs_command command for your changes to take effect in Active Directory. If you select another restricted shell command or end the ADEdit session before saving the currently selected restricted shell command, your changes will be lost.

You can only use the select_rs_command if the currently selected zone is a classic zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

select_rs_command rs_cmd

Abbreviation

slrsc

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
rs_cmd	string	Required. Specifies the name of the restricted shell command to select.

Return Value

This command returns nothing if it runs successfully.

Examples

select_rs_command rsc1

This command looks for the restricted shell command name rsc1 in the current zone. If rsc1 is found in the current zone, it becomes the currently selected context for subsequent commands.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell command:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.
- set_rsc_field sets a field value in the currently selected command.

select rs env

Use the select_rs_env command to retrieve a restricted shell environment in the currently selected zone from Active Directory, stores it in memory, and sets it to be the currently selected restricted shell environment for other ADEdit commands. The restricted shell environment remains selected until you select another restricted shell environment, change the currently selected zone, delete the restricted shell environment, or end the ADEdit session.

If you use ADEdit commands such as set_rse_field to change settings for the restricted shell environment, you must save the restricted shell environment using the save_rs_env command for your changes to take effect in Active Directory. If you select another restricted shell environment or end the ADEdit session before saving the currently selected restricted shell environment, your changes will be lost.

You can only use the select_rs_env command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

select_rs_env rse_name

Abbreviation

slrse

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
rse_name	string	Required. Specifies the name of the restricted shell environment to select.

Return Value

This command returns nothing if it runs successfully.

Examples

select_rs_env rse1

This command looks for the restricted shell environment named rse1 in the current zone. If rse1 is found in the current zone, it becomes the currently selected context for subsequent commands.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.
- set_rse_field sets a field value in the current restricted shell environment.

select zone

Use the select_zone command to retrieve a zone from Active Directory, stores the zone in memory, and make that zone as the currently selected zone for subsequent ADEdit commands. The zone remains selected until you select another zone, delete the zone, or end the ADEdit session.

If you use ADEdit commands such as set_zone_field to change settings for the zone, you must save the zone using the save_zone command for your changes to take effect in Active Directory. If you select another zone or end the ADEdit session before saving the currently selected zone, your changes will be lost.

You should note that ADEdit treats *computer roles* and *computer-specific overrides* as special use-case zones. You can, therefore, use the select_zone command to retrieve a "computer role zone" or a "computer-specific zone" to work with as the currently selected zone. If you specify a zone that is a computer role zone or a computer-specific

zone, subsequent ADEdit commands will treat the zone as a computer role or a computer-specific zone instead of a standard zone. You can only work with one zone at a time, regardless of type. Because some ADEdit commands behave differently in different types of zones, you should verify the type of zone you are working with when you select a zone.

Zone Type

Classic and hierarchical

Syntax

select_zone [-nc] path

Abbreviation

slz

Options

This command takes the following option:

Option	Description
-nc	Requests a reread of the zone's fields from Active Directory. Use this option after you use the save_zone command to ensure you have the current Active Directory field values in memory. For example, after a save_zone command, the modifyTime field value is updated. If you do not then run select_zone -nc, a gzf modifyTime command returns the previous value.

Arguments

This command takes the following argument:

Argument	Туре	Description
path	string	Required. Specifies the path to the selected zone or computer role. The path format depends on the type of zone selected: A tree, classic3, classic4, or SFU zone path consists of the zone's distinguished name. Enclose the path in braces or quotes to allow spaces in the distinguished name. A computer role path consists of the host zone's distinguished name followed by a slash (/) and the name of the computer zone. Enclose the path in braces or quotes to allow spaces in the distinguished name. A computer override path consists of the computer name followed by an ampersand (@) and the distinguished name of the host zone.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example selects a standard zone named cz1 in the Zones container in the UNIX organizational unit in the acme. com domain:

```
select_zone "CN=cz1,CN=Zones,OU=UNIX,DC=acme,DC=com"
```

The following example selects the computer role named LinuxComputers in the global zone in the zones container in the UNIX organizational unit in the acme.com domain:

```
select_zone "CN=global, CN=Zones, OU=UNIX, DC=acme, DC=com/LinuxComputers"
```

The following example selects the computer-specific override zone named server1 in the global zone in the acme.com domain:

select_zone "server1.acme.com@CN=global,CN=Zones,OU=Acme,DC=acme,DC=com"

Related Commands

The following commands perform actions related to this command:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.

After you have a zone stored in memory, you can use the following commands to work with that zone:

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.
- set_zone_field sets a field value in the currently selected zone.

select_zone_computer

Use the select_zone_computer command to retrieve a zone computer in the currently selected zone from Active Directory, store it in memory, and make it the currently selected zone computer for subsequent ADEdit commands. The zone computer remains selected until you select another zone computer, delete the zone computer, or end the ADEdit session.

If you use ADEdit commands such as set_zone_computer_field to change settings for the zone computer, you must save the zone computer using the save_zone_computer command for your changes to take effect in Active Directory. If you select another zone computer or end the ADEdit session before saving the currently selected zone computer, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

select_zone_computer sAMAccountName\$@domain

Abbreviation

slzc

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
sAMAccountName	string	Required. Specifies the Active Directory computer's sAMAccountName followed by \$@ and the computer's domain. You can look up the sAMAccountName for a computer in Active Directory Users and Computers or by running the get_zone_computers command.

Return Value

This command returns nothing if it runs successfully.

Examples

select_zone_computer sales2\$@acme.com

This example looks for the zone computer named sales2 in the current zone and, if found, selects it as the current zone computer.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the zone computers:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.

- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

select_zone_group

Use the select_zone_group command to retrieve a zone group in the currently selected zone from Active Directory. The command stores the zone group in memory and makes it the currently selected zone group for subsequent ADEdit commands. The zone group remains selected until you select another zone group, delete the zone group, or end the ADEdit session.

If you use ADEdit commands such as set_zone_group_field to change settings for the zone group, you must save the zone group using the save_zone_group command for your changes to take effect in Active Directory. If you select another zone group or end the ADEdit session before saving the currently selected zone group, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

select_zone_group AD_group_UPN

Abbreviation

slzg

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
AD_group_ UPN	string	Required. Specifies the user principal name (UPN) of a zone group in the currently selected zone.

Return Value

This command returns nothing if it runs successfully.

Examples

select_zone_group poweradmins@acme.com

This example looks for the group named poweradmins in the current zone and, if found, selects it as the current zone group.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- get_zone_groups returns a Tcl list of the Active Directory names of all zone groups in the current zone.
- list_zone_groups lists to stdout the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_fieldreads a field value from the currently selected zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.
- set_zone_group_field sets a field value in the currently selected zone group.

select zone user

Use the select_zone_user command to retrieve a zone user in the currently selected zone from Active Directory. This command stores the zone user in memory, and makes it the currently selected zone user for subsequent ADEdit commands. The zone user remains selected until you select another zone user, delete the zone user, or end the ADEdit session.

If you use ADEdit commands such as set_zone_user_field to change settings for the zone user, you must save the zone user using the save_zone_user command for your changes to take effect in Active Directory. If you select another zone user or end the ADEdit session before saving the currently selected zone user, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

select_zone_user user

Abbreviation

slzu

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
user	string	Required. Specifies the sAMAccountName@domain or user principal name (UPN) of a zone user in the currently selected zone. ADEdit resolves the user with the sAMAcccountName first, then the UPN. If the zone user is an orphan user—that is, the corresponding Active Directory user no longer exists—you must specify the user's security identifier (SID) instead.

Return Value

This command returns nothing if it runs successfully.

Examples

select_zone_user adam.avery@acme.com

This example looks for the Active Directory user adam.avery in the current zone and, if found, selects that user as the current zone user.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone user:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone.
- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.
- set_zone_user_field sets a field value in the currently selected zone user.

set dzc field

Use the set_dzc_field command to set the value for a specified field in the currently selected UNIX command stored in memory. The set_dzc_field command does *not* set a field value stored in Active Directory for the selected UNIX command.

If you change any fields, you must save the UNIX command using the save_dz_command command for your changes to take effect in Active Directory. If you select another UNIX command or end the ADEdit session before saving the currently selected UNIX command, your changes will be lost.

You can only use the set_dzc_field command to set UNIX command fields if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

When executing privileged commands on computers running Security-Enhanced Linux (SELinux), the security context contains additional information that is used to make access control decisions.

Zone Type

Classic and hierarchical

Syntax

set_dzc_field field value

Abbreviation

sdzcf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field you want to set. The possible values are: description: Text describing the UNIX command. cmd: The UNIX command string or strings. You can use wild cards or a regular expression. path: The path to the command's location. You can use wild cards or a regular expression. form: An integer that indicates whether the cmd and path strings use wild cards (0) or a regular expression (1). dzdo_runas: A list of users and groups that can run this command under dzdo (similar to sudo). Users can be listed by user name or UID. dzsh_runas: A list of users and groups that can run this command in a restricted shell environment (dzsh). Users can be listed by user name or UID. You cannot set this field value if the selected zone is a classic4 zone. keep: A comma-separated list of environment variables from the current user's environment to keep. del: A comma-separated list of environment variables from the current user's environment to delete. add: A comma-separated list of environment variables to add to the final set of environment variables. pri: An integer that specifies the command priority for the restricted shell command object.

Argument	Туре	Description
field (continued)	string	umask: An integer that defines who can execute the command. flags: An integer that specifies a combination of different properties for the command. selinux_role: Specifies the SELinux role to use when constructing a new security context for command execution. selinux_type: Specifies the SELinux type to use when constructing a new security context for command execution. digest: Specifies the SHA-2 digest to verify the file checksum before command execution. Note that selinux_role and selinux_type are only supported on Red Hat Enterprise Linux systems and effective only on systems with SELinux enabled and joined to a hierarchical zone.
value		Required. Specifies the value to assign to the specified field. The data type depends on the field specified. In most cases, you can assign an empty string or null value (0) to unset a field value, depending on the data type of the field.

Setting the cmd and path field values

You can specify the cmd and path strings using wild cards (*, ?, and !), or as a regular expression. If you specify the cmd and path strings using wild cards, use an asterisk (*) to match zero or more characters, the question mark (?) to match exactly one character, or the exclamation mark (!) to negate matching of the specified string.

To set to the command path to the equivalent of the **Standard user path** option, you can set the value of the path field to USERPATH. To set to the path to the equivalent of the **Standard system path** option, set the value of the path field to SYSTEMPATH. To set to the path to the equivalent of the **System search path** option, set the value of the path field to SYSTEMSEARCHPATH.

For both the cmd and path fields, the form field controls whether the specified string is interpreted as a regular expression or as a string that includes wild cards.

Specifying the environment variables to use

You can use the keep, del, and add settings to control the environment variables used by the commands specified by the cmd string. The keep and del settings are mutually exclusive. The keep field only takes effect if the flag 16 is included in the setting for the flag field. The del field only takes effect if the flag 16 is not included in the setting for the flag field.

Any environment variables kept or deleted are in addition to the default set of the user's environment variables that are either retained or deleted. The default set of environment variables to keep is defined in the dzdo.env_keep configuration parameter in the centrifydc.conf file. The default set of environment variables to delete is defined in the dzdo.env_delete configuration parameter in the centrifydc.conf file. You can also add environment variables to the final set of environment variables resulting from the keep or del fields.

Specifying the command priority

You can use the pri field to specify the command priority when there are multiple matches for the UNIX commands specified by wild cards. If commands specified by this UNIX command object match commands specified by another UNIX command object, the UNIX command object with the higher command priority prevails. This field takes an integer value; the higher the number, the higher the priority.

Specifying the umask value

You can use the umask field to define who can execute the command. The umask field specifies a 3-digit octal value that defines read, write, or execute permission for owner, group, and other users. The left digit defines the owner execution rights, the middle digit defines the group execution rights, and the right digit defines other execution rights. Each digit is a combination of binary flags, one flag for each right as follows:

- 4 is read
- 2 is write
- 1 is execute

You add these values add together to define the rights available for each entity. For example, an umask value of 600 indicates read and write permission (4+2) for the owner, but no permissions for the group or other users. Similarly, an umask value of 740 indicates read, write, execute permissions (4+2+1) for the owner, read permissions for the group, but no permissions for other users.

Specifying command properties using the flags field

You can use the flags field to define a combination of binary flags, with one flag for each of the following properties:

- 1-Prevents nested command execution. If this flag value is not set, nested command execution is allowed.
- 2—Requires re-authentication using the login user's password.
- **4**—Requires authentication using the run-as user's password.
- **8**—Preserves group membership. If this flag value is not set, group membership is not preserved.
- 16—Resets environment variables for the command, deleting the variables specified in the dzdo.env_delete parameter and keeping the variables specified in the keep field. If this flag is not set, the command removes the unsafe environment variables specified in the dzdo.env_delete parameter along with any additional environment variables specified by the del field.
- **32**—Requires multi-factor authentication to execute the command.
- **64**—Prevents navigation up the path hierarchy when executing the command.

You add these values together to define the setting for the flags field. For example, a flags field value of 5 prevents nested command execution and requires authentication using the run-as user's password (1+4). You cannot set the 2 flag and the 4 flag or the 4 flag and the 32 flag simultaneously. If you don't set any of these flags, reauthentication is not required.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example sets the current UNIX command dzdo_runas field to root:

set_dzc_field dzdo_runas root

The following example sets the UNIX command properties so that nested command execution is not allowed and authentication is required with the user's password:

sdzcf flags 3

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a UNIX command to work with:

- get_dz_commands returns a Tcl list of UNIX commands in the current zone.
- list_dz_commands lists to stdout the UNIX commands in the current zone.
- new_dz_command creates a new UNIX command and stores it in memory.
- select_dz_command retrieves a UNIX command from Active Directory and stores it in memory.

After you have a UNIX command stored in memory, you can use the following commands to work with that command:

- delete_dz_command deletes the selected command from Active Directory and from memory.
- get_dzc_field reads a field value from the currently selected command.
- save_dz_command saves the selected command with its current settings to Active Directory.

set_ldap_timeout

Use the set_ldap_timeout command to set the time-out interval used by LDAP commands. LDAP commands are ADEdit commands such as select_zone that perform read/write operations on Active Directory through a binding. The time-out value controls how long these commands will wait for a response before declaring a time-out and ceasing operation.

The default value is five minutes.

Zone Type

Not applicable

Syntax

set_ldap_timeout timeout_in_seconds

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
timeout_in_ seconds	integer	Required. Specifies the number of seconds to wait for a response from Active Directory before ending an operation. The default value is 300 seconds (5 minutes).

Return Value

This command returns nothing if it runs successfully.

Examples

set_ldap_timeout 120

This example sets the LDAP time-out interval to 120 seconds (2 minutes).

Related Commands

None.

set_local_group_profile_field

Use the set_local_group_profile_field command to set the value of the specified profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone. Before executing this command, you must create a new local group by executing the new_local_group_profile command, or select an existing local group by executing the select_local_group_profile command.

You can save a group object before the group profile is complete. However, the group profile is not added to /etc/group on each UNIX and Linux computer in the zone until the group profile is complete and the profileflag field is set to 1 (enabled). See new_local_group_profile for details about which fields (attributes) a group profile must have to be considered complete.

Zone Type

Hierarchical only.

Syntax

set_local_group_profile_field field_name value

Abbreviation

slgpf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field_name	string	Required. Specifies the local group profile field to set. The possible values are: gidmemberprofileflag You can also specify AIX extended attributes as the field to set an extended attribute value for a group. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be set by specifying aix.admin as the field.
value		Required. The data type depends on the field being set. The possible values for each field are: Any field : Clear any field by entering a hyphen character (-). gid : A numeric group identifier. member : The UNIX name of a local user to add to the group. profileflag : 1 or 3. If set to 1, the group profile is enabled. If the group profile is complete and the profile flag is set to 1, the profile will be installed or updated in /etc/group at the next local account refresh interval. If set to 3, the group profile is removed from /etc/group at the next local account refresh interval.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example sets the GID of the currently selected group to 20001.

set_local_group_profile_field gid 20001

The following example adds the UNIX user anton.splieth to the currently selected local group.

set_local_group_profile_field member anton.splieth

The following example sets the profile flag of the currently selected group to 1 (enabled), so that if the group profile is complete, the profile will be installed or updated in /etc/group at the next local account refresh interval.

set_local_group_profile_field profileflag 1

If the current group is on AIX, you can set group AIX extended attributes and values. For example, to identify the current group as an administrative group, you can set the admin extended attribute:

set_local_group_profile_field aix.admin true

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_fielddisplays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.

- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_user_profile_field sets the value of a field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.

set_local_user_profile_field

Use the set_local_user_profile_field command to set the value of the specified profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone. Before executing this command, you must create a new local user by executing the new_local_user_profile command, or select an existing local user by executing the select_local_user_profile command.

You can save a user object before the user profile is complete. However, the user profile is not added to /etc/passwd on each UNIX and Linux computer in the zone until the user profile is complete, the profileflag field is set to 1 (enabled) or 2 (disabled), and the user is assigned a visible role such as local listed. See new_local_user_profile for details about which attributes a user profile must have to be considered complete.

Zone Type

Hierarchical only.

Syntax

set_local_user_profile_field field_name value

Abbreviation

slupf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field_name value	String	Required. Specifies the local user profile field to set. Fields and possible values are: Any field: Clear any field by entering a hyphen character (-). uid: The user's numeric identifier. gid: The user's primary group numeric identifier. shell: The local user's default shell on the local computer. Possible values are: /bin/bash, /bin/csh, /bin/csh, /bin/csh, /bin/csh, /bin/csh, /bin/csh, %. home: The local user's default home directory on the local computer. gecos: General information about the local user account. profileflag: The value of the user's profile flag as set in the user object in the zone. For the user to be managed by the agent, the profile flag must be set to 1, 2, or 3. If set to 1, the user profile is enabled. If the user profile is complete, the profile flag is set to 1, and the user is assigned a visible role, the profile will be installed or updated in /etc/passwd at the next local account refresh interval. If set to 2, the user profile is disabled. If the user profile will be installed or updated in /etc/passwd at the next local account refresh interval. However, the password field in /etc/passwd will be set to !!, and the user will not be able to log into the local computer. This state results in what is typically called a "locked account:" If set to 3, the user profile is removed from /etc/passwd at the next local account refresh interval.

Return Value

This command returns nothing if it runs successfully.

Examples

The following example sets the UID of the currently selected user to 10001.

set_local_user_profile_field uid 10001

The following example sets the primary group ID for the currently selected user to 20001.

set_local_user_profile_field gid 20001

The following example sets the default shell for the currently selected user to /bin/csh:

set_local_user_profile_field shell /bin/csh

The following example sets the home directory for the currently selected user to /home.

set_local_user_profile_field home /home

The following example sets the profile flag of the currently selected user to 1 (enabled), so that if the user profile is complete and the user is assigned a visible role, the profile will be installed or updated in /etc/passwd at the next local account refresh interval.

set_local_user_profile_field profileflag 1

Related Commands

The following related ADEdit commands let you view and administer local UNIX and Linux users and groups that have profiles defined in the current zone:

- delete_local_group_profile deletes a local UNIX or Linux group that has a profile defined in the current zone.
- delete_local_user_profile deletes a local UNIX or Linux user that has a profile defined in the current zone.
- get_local_group_profile_fielddisplays the value of a profile field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.
- get_local_groups_profile displays a TCL list of profiles for local groups that are defined in the current zone.
- get_local_user_profile_field displays the value of a profile field for the currently selected local UNIX or Linux user that has a profile defined in the current zone.
- get_local_users_profile displays a TCL list of profiles for local users that are defined in the current zone.
- list_local_groups_profile displays a list of local UNIX and Linux groups that have a profile defined in the current zone.
- list_local_users_profile displays a list of local UNIX and Linux users that have a profile defined in the current zone.
- new_local_group_profile creates an object for a local UNIX or Linux group in the currently selected zone.
- new_local_user_profile creates an object for a local UNIX or Linux user in the currently selected zone.
- save_local_group_profile saves the currently selected local UNIX or Linux group object after you create the group object or edit profile field values in the group object.
- save_local_user_profile saves the currently selected local UNIX or Linux user object after you create the
 user object or edit profile field values in the user object.
- select_local_group_profile selects a local UNIX or Linux group object for viewing or editing.
- select_local_user_profile selects a local UNIX or Linux user object for viewing or editing.
- set_local_group_profile_field sets the value of a field for the currently selected local UNIX or Linux group that has a profile defined in the current zone.

set_object_field

Use the set_object_field command to set the value for a specified field in the currently selected Active Directory object stored in memory. The set_object_field command does *not* set a field value stored in Active Directory for this object.

If you change any fields, you must save the object using the save_object command for your changes to take effect in Active Directory. If you select another object or end the ADEdit session before saving the currently selected object, your changes will be lost.

The set_object_field command does not check to see if fields and values are valid. When you save an object, Active Directory will check fields and values at that time and report an error if they aren't valid.

Zone Type

Not applicable

Syntax

set_object_field field value

Abbreviation

sof

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field you want to set. The <i>field</i> argument can by any attribute that is valid for the type of Active Directory object currently selected in memory.
value		Required. Specifies the value to assign to the specified field. The data type depends on the specified field. The set_object_field command does not check whether the value is valid. Active Directory will check for valid values when ADEdit saves the object.

Return Value

This command returns nothing if it runs successfully.

Examples

set_object_field sd \$sdvalue

This example sets the current object's security descriptor field to the string contained in the variable sdvalue (an SDDL string).

Related Commands

The following commands enable you to view and select Active Directory objects:

- get_objectsperforms an LDAP search of Active Directory and returns a Tcl list of the distinguished names of objects matching the specified search criteria.
- new_object creates a new Active Directory object and stores it in memory.
- select_object retrieves an object with its attributes from Active Directory and stores it in memory.

After you have an object stored in memory, you can use the following commands to work with that object:

- add_object_value adds a value to a multi-valued field attribute of the currently selected Active Directory object.
- delete_object deletes the selected Active Directory object from Active Directory and from memory.
- delete_sub_tree deletes an Active Directory object and all of its children from Active Directory.
- get_object_field reads a field value from the currently selected Active Directory object.
- remove_object_value removes a value from a multi-valued field attribute of the currently selected Active Directory object.
- save_object saves the selected Active Directory object with its current settings to Active Directory.

set_pam_field

Use the set_pam_field command to set the value for a specified field in the currently selected PAM application right stored in memory. The set_pam_field command does *not* set a field value stored in Active Directory for this PAM application right.

If you change any fields, you must save the PAM application right using the save_pam_app command for your changes to take effect in Active Directory. If you select another PAM application right or end the ADEdit session before saving the currently selected PAM application right, your changes will be lost.

You can only use the set_pam_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

set_pam_field field value

Abbreviation

spf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field that you want to set. The possible values are: application: The name of the PAM application that is allowed to use the adclient PAM authentication service. The name can be literal, or it can contain? or * wildcard characters to specify multiple applications. description: Text describing the PAM application. Note that in a classic zone, setting the application field changes the name of the PAM application right. For example, assume you create a new PAM application right in a classic zone using a command like this: new_pam_app myftp If you then use this command to set the application field like this: set_pam_field application newftp The PAM application right itself will be renamed. If you were to use the list_pam_apps command after running the set_pam_field command, the right would be returned as newftp: list_pam_apps newftp: Renamed application right
value		Required. Specifies the value to assign to the specified field. In most cases, you can assign an empty string to unset a field value.

This command returns nothing if it runs successfully.

Examples

set_pam_field application *

This example sets the application field for the current PAM application right to allow PAM access rights to all applications (* is the wildcard for all possible strings).

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select PAM application rights:

- get_pam_apps returns a Tcl list of PAM application rights in the current zone.
- list_pam_apps lists to stdout the PAM application rights in the currently selected zone.
- new_pam_app creates a new PAM application right and stores it in memory.
- select_pam_app retrieves a PAM application right from Active Directory and stores it in memory.

After you have a PAM application right stored in memory, you can use the following commands to work with that PAM application right:

- delete_pam_app deletes the selected PAM application right from Active Directory and from memory.
- get_pam_field reads a field value from the currently selected PAM application right.
- save_pam_app saves the selected PAM application right with its current settings to Active Directory.

set_role_assignment_field

Use the set_role_assignment_field command to sets the value for a specified field in the currently selected role assignment stored in memory. The set_role_assignment_field command does *not* set a field value stored in Active Directory for this role assignment.

If you change any fields, you must save the role assignment using the save_role_assignment command for your changes to take effect in Active Directory. If you select another role assignment or end the ADEdit session before saving the currently selected role assignment, your changes will be lost.

You can only use the set_role_assignment_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

set_role_assignment_field field value

Abbreviation

sraf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field that you want to set. The possible values are: customAttr : Sets custom text strings for the role assignment. This field is only applicable for hierarchical zones. description : Sets the description for the role assignment. from : Sets the starting date and time for the role assignment. The date and time is expressed in standard UNIX time. The Tcl clock command manipulates these time values. A value of 0 means no starting date and time for the role assignment. role : Sets the name of the role to assign and the zone in which the role was defined. The zone value is optional if the role is defined in the currently selected zone. The zone is required if the role is defined in another zone. to : Sets the ending date and time for the role assignment. The start and end dates and times are expressed in standard UNIX time. You can use the Tcl clock command to manipulate these values. A value of 0 indicates no date or time is set for the role assignment.

Argun	nent	Туре	Description
value		lepends on field	Required. Specifies the value to assign to the specified field. In some cases, you can assign a dash (-) or an empty string to unset a field value. However, this is not supported for all fields or all zone types.

This command returns nothing if it runs successfully.

Examples

set_role_assignment_field role su-root/global

This example assigns the role named su-root that is defined in the global zone.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a role assignment:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout the role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the currently selected role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- write_role_assignment saves the selected role assignment to a file.

set_role_field

Use the set_role_field command to set the value for a specified field in the currently selected role stored in memory. The set_role_field does *not* set a field value stored in Active Directory for this role.

If you change any fields, you must save the role using the save_role command for your changes to take effect in Active Directory. If you select another role or end the ADEdit session before saving the currently selected role, your changes will be lost.

You can only use the set_role_field command if the currently selected zone is a classic4 or hierarchical zone. The command does not work in other types of zones.

Zone Type

Classic and hierarchical

Syntax

set_role_field field value

Abbreviation

srf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field that you want to set.
value		Required. Specifies the value to assign to the specified field. In most cases, you can assign an empty string or null value (0) to unset a field value, depending on the data type of the field.

The data type required depends on the field you are setting. The possible values are:

- allowLocalUser: Set the value to true to allow local users to be assigned to the role, or false if local users should not be assigned to the role. This field is not applicable in classic zones. The valid values are 1, y, yes, or true to enable or 0, n, no, or false to disable. All other values throw an exception.
- AlwaysPermitLogin: Set the value to true to enable "rescue rights" for users assigned to the role, or false if "rescue rights" should not be applied to the role. This field is not applicable in classic zones. The valid values are 1, y, yes, or true to enable or 0, n, no, or false to disable. All other values throw an exception.
- auditLevel: Set the value to one of the following to specify whether auditing is not requested, requested but not required, or required:
 - AuditlfPossible
 - AuditNotRequested
 - · AuditRequired

This field is not applicable in classic zones.

- **customAttr**: Sets custom text strings for the role. This field is only applicable for hierarchical zones.
- description: Set the value to a text string that describes the role.
- **sysrights**: Set the value to specify the system rights granted to the role. This value is an integer that represents a combination of binary flags, one for each right. This field is not applicable in classic zones.
- **timebox**: Set the value to indicate the hours in the week when the role is enabled. This value is a 42-digit hexadecimal number. When represented in binary, each bit represents an hour of the week as described in the

appendix Timebox Value Format

• **visible**: Returns true or false depending on whether "User is visible" right is configured for the role. You cannot get this field value if the selected zone is a classic zone.

Setting the system rights field value for a role

You can specify the sysrights field to define the system rights that you want to grant to the currently selected role. This field value is an integer that represents a combination of binary flags, with one flag for each of the following system rights:

- 1—Password login and non password (SSO) login are allowed.
- 2-Non password (SSO) login is allowed.
- **4**—Account disabled in Active Directory can be used by sudo, cron, etc.
- 8-Log in with non-restricted shell.
- 16-Audit not requested/required.
- 32-Audit required.
- **64**—Always permit to login.
- **128**—Remote login access is allowed for Windows computers.
- 256—Console login access is allowed for Windows computers.
- 512—Require multi-factor authentication through the Delinea Connector to log on.
- 1024-PowerShell remote access is allowed

These values are added together to define the sysrights field value. For example, a sysrights value of 6 indicates that the role is configured to allow single sign-on login and to ignore disabled accounts (2+4). A value of 11 indicates that most common UNIX system rights are enabled (1+2+8). A value of 384 indicates that most common Windows system rights are enabled (128+256).

Return Value

This command returns nothing if it runs successfully.

Examples

The following example sets the system rights for the current role to allow SSO login (2) and to provide a full shell (8):

```
set_role_field sysrights 10
```

The following example sets the current role to require auditing:

```
set_role_field auditLevel AuditRequired
```

Note that the sysrights field is a bit field, so you can add and remove bits for the field instead of setting the integer value directly. For example to add the system rights for single sign-on and full shell to existing system rights, you might use commands similar to this:

```
set sr [get_role_field sysrights]
set_role_field sysrights [expr { $sr | 10 }]
```

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select roles:

- get_roles returns a Tcl list of roles in the current zone.
- list_roles lists to stdout the roles in the current zone.
- new_role creates a new role and stores it in memory.
- select_role retrieves a role from Active Directory and stores it in memory.

After you have a role stored in memory, you can use the following commands to work with that role:

- add_command_to_roleadds a UNIX command to the current role.
- add_pamapp_to_role adds a PAM application right to the current role.
- delete_role deletes the selected role from Active Directory and from memory. *get_role_apps returns a Tcl list of the PAM applications associated with the currently selected role.
- get_role_commands returns a Tcl list of the UNIX commands associated with the current role.
- get_role_field reads a field value from the currently selected role.
- list_role_rights returns a list of all UNIX commands and PAM application rights associated with the current role. *remove_command_from_roleremoves a UNIX command from the current role.
- remove_pamapp_from_role removes a PAM application from the current role.
- save_role saves the selected role with its current settings to Active Directory.

set_rs_env_for_role

Use the set_rs_env_for_role command to assign a restricted shell environment to the currently selected role that is stored in memory. You should note that a role can only have one restricted shell environment assigned to it. If you assign a new restricted shell environment to a role, the current restricted shell environment—if one exists—will be removed. In addition, a role cannot be defined with both privileged commands and a restricted shell environment at the same time. If you assign a restricted shell environment to the currently selected role, all privileged commands previously defined for the role—if they exist—will be removed from the role.

The set_rs_env_for_role command does not modify the data stored in Active Directory for the restricted shell environment. If you run this command using ADEdit without saving the role to Active Directory, your changes do not take effect.

You can only use the set_rs_env_for_role command if the currently selected zone is a classic4 zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

set_rs_env_for_role environment

Abbreviation

srse

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
environment	string	Required. Specifies the name of the restricted shell environment to assign to the current role.

Return Value

This command returns nothing if it runs successfully.

Examples

set_rs_env_for_role rse1

This example sets the currently selected role's restricted shell environment to rse1, and removes any existing restricted shell environment or privileged commands if they exist in the role.

Related Commands

The following commands perform actions related to this command:

- clear_rs_env_from_role removes a restricted shell environment from the current role.
- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with that: restricted shell environment:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.

set rsc field

Use the set_rsc_field command to set the value for a specified field for the currently selected restricted shell command that is stored in memory. The set_rsc_field command does not set the field value stored in Active Directory for the selected restricted command field.

If you change any fields, you must save the restricted shell command using the save_rs_command command for your changes to take effect in Active Directory. If you select another restricted shell command or end the ADEdit session before saving the currently selected restricted shell command, your changes will be lost.

You can only use the set_rsc_field command if the currently selected zone is a classic4 zone is the selected zone. The command does not work in other types of zones.

Zone Type

Classic only

Syntax

set_rsc_field field value

Abbreviation

srscf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field whose value you want to set.
value		Required. Specifies the value you want to assign to the specified field. The data type depends on the field specified. In most cases, you can assign an empty string or null value (0) to unset a field value, depending on the data type of the field.

The possible field values are:

- **description**: Text describing the restricted shell command.
- cmd: The restricted shell command string or strings. You can use wild cards or a regular expression.
- path: The path to the command's location. You can use wild cards or a regular expression.
- form: An integer that indicates whether the cmd and path strings use wild cards (0) or a regular expression (1).

- dzsh_runas: A list of users and groups that can run this command in a restricted shell environment (dzsh).
 Users can be listed by user name or UID.
- **keep**: A comma-separated list of environment variables from the current user's environment to keep.
- del: A comma-separated list of environment variables from the current user's environment to delete.
- add: A comma-separated list of environment variables to add to the final set of environment variables.
- pri: An integer that specifies the command priority for the restricted shell command object.
- **umask**: An integer that defines who can execute the command.
- flags: An integer that specifies a combination of different properties for the command.
- createTime: The time and date this command was created, returned in generalized time format.
- modifyTime: The time and date this command was last modified, returned in generalized time format.
- **dn**: The command's distinguished name.

Setting the cmd and path field values for a restricted command

You can specify the cmd and path strings using wild cards (*, ?, and !), or as a regular expression. If you specify the cmd and path strings using wild cards, use an asterisk (*) to match zero or more characters, the question mark (?) to match exactly one character, or the exclamation mark (!) to negate matching of the specified string.

For both the cmd and path fields, the form field controls whether the specified string is interpreted as a regular expression or as a string that includes wild cards.

Specifying the environment variables for a restricted command

You can use the keep, del, and add settings to control the environment variables used by the commands specified by the cmd string. The keep and del settings are mutually exclusive. The keep field only takes effect if the flag 16 is included in the setting for the flag field. The del field only takes effect if the flag 16 is not included in the setting for the flag field.

Any environment variables kept or deleted are in addition to the default set of the user's environment variables that are either retained or deleted. The default set of environment variables to keep is defined in the dzdo.env_keep configuration parameter in the centrifydc.conf file. The default set of environment variables to delete is defined in the dzdo.env_delete configuration parameter in the centrifydc.conf file. You can also add environment variables to the final set of environment variables resulting from the keep or del fields.

Specifying the restricted command priority

You can use the pri field to specify the command priority when there are multiple matches for the restricted shell command object specified by wild cards. If there are multiple commands specified by this restricted shell command object, the restricted shell command with the higher command priority prevails.

Specifying the umask value for restricted commands

You can use the umask field to define who can execute the command. The umask field specifies a 3-digit octal value that defines read, write, or execute permission for owner, group, and other users. The left digit defines the owner execution rights, the middle digit defines the group execution rights, and the right digit defines other execution rights. Each digit is a combination of binary flags, one flag for each right as follows:

ADEdit Command Reference

- 4 is read
- 2 is write
- 1 is execute

You add these values add together to define the rights available for each entity. For example, a umask value of 600 indicates read and write permission (4+2) for the owner, but no permissions for the group or other users. Similarly, a umask value of 740 indicates read, write, execute permissions (4+2+1) for the owner, read permissions for the group, but no permissions for other users.

Specifying restricted command properties using the flags field

You can use the **flags** field to define a combination of binary flags, with one flag for each of the following properties:

- 1 to prevent nested command execution. If this flag value is not set, nested command execution is allowed.
- 2 to require authentication with the user's password. You cannot set this flag and the 4 flag simultaneously. If neither 2 nor 4 is set, authentication is not required.
- 4 to require authentication with the run-as user's password
 If you do not set the 2 flag or the 4 flag, authentication is not required.
- 8 to preserve group membership. If this flag value is not set, group membership is not preserved.
- 16 to reset environment variables for the command, deleting the variables specified in the dzdo.env_delete parameter and keeping the variables specified in the keep field. If this flag is not set, the command removes the unsafe environment variables specified in the dzdo.env_delete parameter along with any additional environment variables specified by the del field

You add these values together to define the setting for the flags field. For example, a flags field value of 5 prevents nested command execution and requires authentication using the run-as user's password (1+4).

Return Value

This command returns nothing if it runs successfully.

Examples

set_rsc_field description {This is the restricted command description}

This example sets the current restricted shell command description field to the "This is the restricted command description" text string.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select the restricted shell command to work with:

- get_rs_commands returns a Tcl list of restricted shell commands in the current zone.
- list_rs_commands lists to stdout the restricted shell commands in the current zone.
- new_rs_command creates a new restricted shell command and stores it in memory.
- select_rs_command retrieves a restricted shell command from Active Directory and stores it in memory.

After you have a restricted shell command stored in memory, you can use the following commands to work with that restricted shell command:

- delete_rs_command deletes the selected command from Active Directory and from memory.
- get_rsc_field reads a field value from the currently selected command.
- save_rs_command saves the selected command with its current settings to Active Directory.

set_rse_field

Use the set_rse_field command to set the value for a specified field in the currently selected restricted shell environment that is stored in memory. The set_rse_field command does not set the field value stored in Active Directory for this restricted shell environment.

This command only sets the field value that is stored in memory. You must save the restricted shell environment using the save_rs_env command for your changes to take effect in Active Directory. If you select another restricted shell environment or end the ADEdit session before saving the currently selected restricted shell environment, your changes will be lost.

You can only use the set_rse_field command if the currently selected zone is a classic4 zone. The command does not work in other type of zones.

Zone Type

Classic only

Syntax

set_rse_field field value

Abbreviation

srsef

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
field	string	Required. Specifies the name of the field whose value you want to set. The only possible value is: description : Text describing the restricted shell environment.
value	depends on field	Required. Specifies the value to assign to the specified field. In most cases, you can assign an empty string to unset a field value.

This command returns nothing if it runs successfully.

Examples

set_rse_field description {This string is the restricted shell description}

This example sets the description field for the current restricted shell environment to the "This string is the restricted shell description" text string.

Related Commands

Before you use this command, you must have a currently selected role stored in memory. The following commands enable you to view and select the role to work with restricted shell environments:

- get_rs_envs returns a Tcl list of restricted shell environments.
- list_rs_envs lists to stdout the restricted shell environments.
- new_rs_env creates a new restricted shell environment and stores it in memory.
- select_rs_env retrieves a restricted shell environment from Active Directory and stores it in memory.

After you have a restricted shell environment stored in memory, you can use the following commands to work with its fields:

- delete_rs_env deletes the current restricted shell environment from Active Directory and from memory.
- get_rse_field reads a field value from the current restricted shell environment.
- save_rs_env saves the restricted shell environment to Active Directory.

set_sd_owner

Use the set_sd_owner command to set the owner of a security descriptor (SD). This command requires you to specify the security descriptor in SDDL (security descriptor definition language) form and the security identifier (SID) of the owner. The command sets and returns the updated security descriptor in SDDL form with the new owner.

Zone Type

Not applicable

Syntax

set_sd_owner sddl_string owner_sid

Abbreviation

SSO

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
sddl_string	string	Required. Specifies a security descriptor in SDDL format.
owner_sid	string	Required. Specifies the security identifier (SID) of the owner to set.

Return Value

This command returns an security descriptor in SDDL format if it runs successfully. The security descriptor contains the new owner set by the command.

Examples

This example sets a new owner for a security descriptor. The security descriptor is the first long string after the command. The SID of the new owner is the much shorter string at the end of the command (shown in **boldface**).

```
set_sd_owner 0:DAG:DAD:AI (A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA) (OA;;CCDC;bf967aba-0de6-11d0-a285-
00aa003049e2;;A0) (OA;;CCDC;bf967a9c-0de6-11d0-a285-00aa003049e2;;A0) (OA;;CCDC;bf967aa8-
Ode6-11d0-a285-00aa003049e2;;PO) (A;;RCLCRPLO;;;AU)(OA;;CCDC;4828cc14-1437-45bc-9b07-
ad6f015e5f28;;AO) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;4828cc14-1437-45bc-9b07-
ad6f015e5f28;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-
00aa003049e2;RU) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-
00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-
00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-
O0aa003049e2;ED) (OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU)
(OA;CIIOID;RCLCRPLO;;bf967a9c-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-
Ode6-11d0-a285-00aa003049e2;RU) (OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS)
(A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;EA) (A;CIID;LC;;;RU)
(A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA)S-1-5-21-1076040321-332654908-468068287-1109*
```

This example returns the updated security descriptor:

```
O:S-1-5-21-1076040321-332654908-468068287-1109G:DAD:AI (A;;RCWDWOCCDCLCSWRPWPLOCR;;;DA) (OA;;CCDC;bf967aba-0de6-11d0-a285-00aa003049e2;;AO) (OA;;CCDC;bf967aba-0de6-11d0-a285-00aa003049e2;;AO) (OA;;CCDC;bf967aa8-0de6-11d0-a285-00aa003049e2;;PO) (A;;RCLCRPLO;;;AU) (OA;;CCDC;4828cc14-1437-45bc-9b07-ad6f015e5f28;;AO) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;4c164200-20c0-11d0-a768-00aa006e0529;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;5f202010-79a5-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;bc0ac240-79a9-11d0-9020-00c04fc2d4cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;59ba2f42-79a2-11d0-9020-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00c04fc2d3cf;bf967aba-0de6-11d0-a285-00aa003049e2;RU)
```

```
O0a0c968f939;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RP;037088f8-0ae1-11d2-b422-00a0c968f939;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a86-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967a9c-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RP;b7c69e6d-2cc7-11d2-854e-00a0c983f608;bf967aba-0de6-11d0-a285-00aa003049e2;ED) (OA;CIIOID;RCLCRPLO;;4828cc14-1437-45bc-9b07-ad6f015e5f28;RU) (OA;CIIOID;RCLCRPLO;;bf967a9c-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIIOID;RCLCRPLO;;bf967aba-0de6-11d0-a285-00aa003049e2;RU) (OA;CIID;RPWPCR;91e647de-d96f-4b70-9557-d63ff4f3ccd8;;PS) (A;CIID;SDRCWDWOCCDCLCSWRPWPDTLOCR;;;EA) (A;CIID;LC;;;RU) (A;CIID;SDRCWDWOCCLCSWRPWPLOCR;;;BA)
```

Related Commands

The following commands perform actions related to this command:

- explain_sd converts an SD in SDDL format to a human-readable form.
- remove_sd_ace removes an access control entry (ACE) from an SD.
- add_sd_ace adds an access control entry to an SD.

set_user_password

Use the set_user_password command to set a new password for an Active Directory user or computer in Active Directory.

Zone Type

Not applicable

Syntax

set_user_password UPN password

Abbreviation

sup

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
UPN	string	Required. Specifies the user principal name (UPN) of the user or computer whose password will be reset.
password	string	Required. Specifies the text string to set as the new password. If the string contains characters that might be misinterpreted by ADEdit's Tcl interpreter (\$, for example), enclose the string in braces so that all characters are interpreted literally with no substitutions.

This command returns nothing if it runs successfully.

Examples

set_user_password adam.avery@acme.com {B4uC\$work}

This example sets the password for adam.avery@acme.com to B4uC\$work.

Related Commands

None.

set_zone_computer_field

Use the set_zone_computer_field command to set the value for a specified field in the currently selected zone computer stored in memory. The set_zone_computer_field command does *not* set a field value stored in Active Directory for this zone computer.

If you change any fields, you must save the zone computer using the save_zone_computer command for your changes to take effect in Active Directory. If you select another zone computer or end the ADEdit session before saving the currently selected zone computer, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

set_zone_computer_field field value

Abbreviation

szcf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field whose value want set. The possible values are: cpus : Set to a positive integer for the number of CPUs in the computer. enabled : Set the value to 1, y, yes, or true if the computer is enabled in the zone or to 0, n, no, or false if the computer is not enabled in the zone. All other values throw an exception. licensetype : Specifies the type of license a computer uses. The valid values for this field are server or workstation.
value		Required. Specifies the value to assign to the specified field. In some cases, you can assign a dash (-) to a field to unset the field value. However, this is not supported for all fields or all zone types.

This command returns nothing if it runs successfully.

Examples

set_zone_computer_field cpus 2

This example sets the current zone computer's number of CPUs to 2.

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and manage the zone computers:

- get_zone_computers returns a Tcl list of the Active Directory names of all zone computers in the current zone.
- list_zone_computers lists to stdout the zone computers in the current zone.
- new_zone_computer creates a new zone computer and stores it in memory.
- select_zone_computer retrieves a zone computer from Active Directory and stores it in memory.

After you have a zone computer stored in memory, you can use the following commands to work with that zone computer:

- delete_zone_computer deletes the zone computer from Active Directory and from memory.
- get_zone_computer_field reads a field value from the currently selected zone computer.
- save_zone_computer saves the zone computer with its current settings to Active Directory.
- set_zone_computer_field sets a field value in the currently selected zone computer.

set_zone_field

Use the set_zone_field command to set the value for a specified field in the currently selected zone stored in memory. The set_zone_field command does *not* set a field value stored in Active Directory for the selected zone.

If you change any fields, you must save the zone using the save_zone command for your changes to take effect in Active Directory. If you select another zone or end the ADEdit session before saving the currently selected zone, your changes will be lost.

This command is not applicable if the currently selected zone is a classic-computer zone. You cannot set zone field values for classic-computer zones.

Zone Type

Classic and hierarchical

Syntax

set_zone_field field value

Abbreviation

szf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field that you want to set.
value		Required. Specifies the value to assign to the specified field. In most cases, you can assign an empty string to unset the field value. For more information about the values set by the zone fields, see the Field value section.

The data type required depends on the field you are setting. The possible field values are:

- availableshells: Sets the list of shells available to choose from when adding new users to the zone.
- block.parent.zgroup: Sets the value of the block.parent.zgroup field in the zone object's description.
- cloudurl: Sets the URL of the cloud instance associated with the selected zone.
- computers: Sets the UPN of the computer group assigned to the selected computer role.
- **customAttr**: Sets custom text strings for the zone. This field is only applicable for hierarchical zones.
- defaultgid: Sets the default primary group to assign to new users.
- defaultgecos: Sets the default GECOS data to assign to new users.
- defaulthome: Sets the default home directory to assign to new users.
- defaultshell: Sets the default shell to assign to new users.

- **description**: Sets the text string that describes the zone.
- gidnext: Sets the next GID to use when auto-assigning GID numbers to new groups.
- **gidreserved**: Sets the GID number or range of numbers (1-100) that are reserved.
- **groupname**: Sets the default group name used for new groups in the zone.
- nisdomain: Sets the name of the NIS domain for NIS clients to use.
- nssvar: Sets the NSS substitution variable to add to the zone's list of substitution variables.
- parent: Sets the distinguished name of the zone's parent zone.
- **sfudomain**: Sets the Windows domain name for the SFU zone.
- sid2iddomainmap: Sets the domain ID map for the seleted zone. Specify the mapping with a comma-separated key value pairs string. See the examples section for a sample command with this field. Note that the range of domain IDs is 0 to 511. Duplicate mapping entries are not allowed (domain names are not case-sensitive). This field is not supported for auto zones nor classic zones.
- tenantid: Returns the Delinea Platform tenant ID for the zone. This field is only applicable for hierarchical zones.
- uidnext: Sets the next UID to use when auto-assigning UID numbers to new users.
- uidreserved: Sets the UID number or range of numbers (1-100, for example) that are reserved.
- username: Sets the default user name used for new users in the zone.

This command returns nothing if it runs successfully.

Examples

The following example sets the computer group associated with the currently selected computer role to linux_machines in the domain acme.com:

set_zone_field computers linux_machines@acme.com

The following example sets the parent zone of the current zone to global in the domain acme.com:

szf parent "CN=global, CN=zones, CN=Acme, CN=Program Data, DC=acme, DC=com"

The following example sets the domain ID mapping for the selected zone:

set_zone_field sid2iddomainmap domain0.test=0,domain1.test=1,domain2.test=2

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone to work with:

- create_zone creates a new zone in Active Directory.
- get_zones returns a Tcl list of all zones within a specified domain.
- select_zone retrieves a zone from Active Directory and stores it in memory.

After you have a zone stored in memory, you can use the following commands to work with that zone:

ADEdit Command Reference

- delegate_zone_right delegates a zone use right to a specified user or computer.
- delete_zone deletes the selected zone from Active Directory and memory.
- get_child_zones returns a Tcl list of child zones, computer roles, or computer zones.
- get_zone_field reads a field value from the currently selected zone.
- get_zone_nss_vars returns the NSS substitution variable for the selected zone.
- save_zone saves the selected zone with its current settings to Active Directory.

set_zone_group_field

Use the set_zone_group_field command to set the value for a specified field in the currently selected zone group stored in memory. The set_zone_group_field command does *not* set a field value stored in Active Directory for the selected zone group.

If you change any fields, you must save the zone group using the save_zone_group command for your changes to take effect in Active Directory. If you select another zone group or end the ADEdit session before saving the currently selected zone group, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

set_zone_group_field field value

Abbreviation

szgf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field that you want to set. The possible values are: gid: Sets the numeric identifier for the group (GID). name: Sets the text string for the group name. required: Specifies whether the zone group is required. Set the value to 1, y, yes, or true if the group is required in the zone or to 0, n, no, or false if the group in not required in the zone. All other values throw an exception. If a group is required, users cannot remove the group from their active set of groups. You can also specify AIX extended attributes as the field to set an extended attribute value for a group. Extended attribute fields start with the aix. prefix. For example, the admin extended attribute can be set by specifying aix.admin as the field.
value		Required. Specifies the value to assign to the specified field. The data type depends on the field specified. In some cases, you can assign a dash (-) to a field to unset the field value. However, this is not supported for all fields or all zone types.

This command returns nothing if it runs successfully.

Examples

The following example sets the current zone group's UNIX group name to managers.

set_zone_group_field name managers

If the current group is on AIX, you can set AIX group extended attributes and values. For example, to identify the current group as an administrative group, you can set the admin extended attribute:

set_zone_group_field aix.admin true

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select zone groups:

- get_zone_groups returns a Tcl list of the Active Directory names of all zone groups in the current zone.
- list_zone_groups lists to stdout the zone groups in the current zone.
- new_zone_group creates a new zone group and stores it in memory.
- select_zone_group retrieves a zone group from Active Directory and stores it in memory.

After you have a zone group stored in memory, you can use the following commands to work with that zone group:

- delete_zone_group deletes the selected zone group from Active Directory and from memory.
- get_zone_group_fieldreads a field value from the current zone group.
- save_zone_group saves the selected zone group with its current settings to Active Directory.

set_zone_user_field

Use the set_zone_user_field command to set the value for a specified field in the currently selected zone user stored in memory. The set_zone_user_field command does *not* set a field value stored in Active Directory for this zone user.

If you use ADEdit to change any field, you must save the zone user using the save_zone_user command for your changes to take effect in Active Directory. If you select another zone user or end the ADEdit session before saving the currently selected zone user, your changes will be lost.

Zone Type

Classic and hierarchical

Syntax

set_zone_user_field field value

Abbreviation

szuf

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
field	string	Required. Specifies the name of the field y want set. The possible values are: uname: Sets the text string to use for the UNIX user name. If you are setting this field in a Service for UNIX (SFU) zone, this name must be unique among all the SFU zones. If you duplicate a user name that exists in another SFU zone, that user will be moved to the currently selected SFU zone when you save the zone user. uid: Sets the numeric identifier for the user (UID). gid: Sets the numeric identifier for the user's primary group (GID). Set the value to 0x800000000 to indicate a private group (the user's UID is used as the GID). gecos: Sets the text string to use for the user's GECOS field. home: Sets the text string that specifies the user's home directory. shell: Sets the text string that specifies the user's default shell type. enabled: Specifies whether user is enabled or not. This field is only valid in classic zones. Set the value to 1, y, yes, or true if the user is enabled in the zone or to 0, n, no, or false if the user is disabled in the zone. All other values throw an exception. You can also specify AIX extended attributes as the field to set an extended attribute value for a zone user.
value		Required. Specifies the value to assign to the specified field. The data type depends on the field specified. In some cases, you can assign a dash (-) to a field to unset the field value. However, this is not supported for all fields or all zone types.

This command returns nothing if it runs successfully.

Examples

The following example sets the current zone user's UNIX user name to buzz:

```
set_zone_user_field uname buzz
```

This following example sets the current zone user's primary GID to the same value as the user's UID:

```
set_zone_user_field gid 0x80000000
```

If the current zone user is on AIX, you can set extended attributes and values. For example:

select_zone_user aixu1@acme.com set_zone_user_field aix.ttys u1,u2,u3 set_zone_user_field aix.fsize 209715 set_zone_user_field aix.core 2097151 set_zone_user_field aix.cpu -1 save_zone_user

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select a zone user:

- get_zone_users returns a Tcl list of the Active Directory names of all zone users in the current zone.
- list_zone_users lists to stdout the zone users and their NSS data in the current zone.
- new_zone_user creates a new zone user and stores it in memory.
- select_zone_user retrieves a zone user from Active Directory and stores it in memory.

After you have a zone user stored in memory, you can use the following commands to work with that zone user:

- delete_zone_user deletes the selected zone user from Active Directory and from memory.
- get_zone_user_field reads a field value from the currently selected zone user.
- save_zone_user saves the selected zone user with its current settings to Active Directory.

show

Use the show command to display the current context of ADEdit. The command shows the domains ADEdit is bound to, the objects that are currently selected, and all available data for each selected object as it is stored in memory.

You should note that the command returns stored object data as it currently exists in memory. If you use ADEdit commands to change objects, but have not yet saved the data back to Active Directory, the information returned by the show command will not match the object data stored in Active Directory.

Zone Type

Not applicable

Syntax

show [all|bind|zone|user|computer|assignment|object|group|
pamright|dzcommand|nismap|role|license|rse|rscommand localuser|localgroup]

Abbreviation

None.

Options

This command takes no options.

Arguments

This command takes the following argument of type string:

```
[all | user | bind | zone | user | computer | assignment | object | group | pamright | dzcommand | nismap | role | license | rse | rscommand | localuser | localgroup]
```

You can limit the information returned by specifying one of the following arguments. If no argument is supplied, the default is **all**.

- all returns the complete context of ADEdit—all of its current bindings and all currently selected objects in memory.
- bind returns ADEdit's currently bound domains and the server bound in each domain.
- **zone** returns the currently selected zone.
- user returns the currently selected user object.
- computer returns the currently selected zone computer.
- assignment returns the currently selected role assignment
- **object** returns the currently selected Active Directory object.
- group returns the currently selected zone group.
- pamright returns the currently selected PAM application right.
- dzcommand returns the currently selected UNIX command.
- nismap returns the currently selected NIS map.
- role returns the currently selected role.
- **license** returns the forest list where valid licenses have been found (it only reports the forests that have been queried).
- rse returns the currently selected restricted shell environment.
- rscommand returns the currently selected restricted shell command.
- localuser returns the currently selected local user.
- localgroup returns the currently selected local group.

This command returns domain bindings and/or object data, depending on the supplied argument.

Examples

show

This example returns information all bound domains and selected objects similar to this:

```
Bindings: acme.com: calla.acme.comCurrent zone: CN=global,CN=Zones,CN=Acme,CN=Program Data,DC=acme,DC=comCurrent nss user: adam.avery@acme.com:adam:10001:10001:%{u:samaccountname}:%{home}/%{user}:%{shell}:
```

Related Commands

None.

sid_to_escaped_string

Use the sid_to_escaped_string command to specify a security identifier (SID) and have it converted to an escaped string format that works in an LDAP filter.

Zone Type

Not applicable

Syntax

sid_to_escaped_string sid

Abbreviation

stes

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
sid	string	Required. Specifies a security identifier (SID).

Return Value

This command returns an escaped string form of the supplied security identifier.

Examples

sid_to_escaped_string S-1-5-21-2076040321-3326545908-468068287-1157

This example returns an escaped string:

\01\05\00\00\00\00\00\05\15\00\00\00\81\dc\bd\7b\f4\0f\47\c6\bf\27\e6\1b\85\04\00\00

Related Commands

The following commands perform actions related to this command:

- sid_to_uid converts an Active Directory security identifier to a user ID (UID).
- principal_from_sid searches Active Directory for an security identifier and returns the security principal associated with the security identifier.

sid_to_uid

Use the sid_to_uid command to specify a security identifier (SID) of an Active Directory user to look up the Active Directory user in Active Directory. This command converts the user's security identifier to a numeric identifier for the user ID (the UID value). This conversion process is the same process used to generate UIDs for Delinea Express users or when you use Auto Zone to automatically generate UIDs for users.

Zone Type

Not applicable

Syntax

sid_to_uid [-domainidmap] sid

Abbreviation

stu

Options

This command takes the following options:

Option	Description
-domainidmap	Optional. Specifies a domain ID mapping for the selected zone. Before using this field, you must have a selected zone stored in memory. This field is not supported for auto zones nor classic zones. If the selected zone does not already have a domain ID mapping, the UID is generated normally. If the selected zone has a domain ID mapping already and the domain to which this SID belongs exists in the specified domain ID mapping, the UID is generated with the algorithm based on the domain ID mapping. If the selected zone has a domain ID mapping already but the domain to which this SID belongs does not exist in the specified domain ID mapping, the UID is generated normally. For example: sid_to_uid -domainidmap S-1-5-21-2076040321-3326545908-468068287-1157

Arguments

This command takes the following argument:

Argument	Туре	Description
sid	string	Required. Specifies a security identifier (SID).

Return Value

This command returns a numeric user ID.

Examples

This example returns a unique UID for the user: 1874853888

Related Commands

The following commands perform actions related to this command:

principal_from_sid searches Active Directory for an SID and returns the security principal associated with the SID.

validate_license

Use the validate_license command to specify a path to the Delinea license container and determine if there is a valid license. If there is a valid license, the command stores an indicator in the ADEdit current context. If the command does not find a valid license, it reports an error and exits.

ADEdit requires a valid license before a zone is created. The create_zone and create_computer_role commands do an implicit search for a valid license. For example, you can call create_zone and let it attempt to find the container and validate the license. If that command fails to find a valid license, use validate_license to validate the license container from an explicit path.

You can call the validate_license command multiple times. Successive indicators take precedence. The command writes separate indicators for each forest—that is, each license is valid for a forest. You can use the show license command to see the list of forests that have been found to have a valid license.

Do not call validate_license before you bind to the domain.

The validate license context is deleted when ADEdit exits.

Zone Type

Not applicable

Syntax

validate_license path

Abbreviation

v٦

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
path	string	Required. Specifies the path is the license container's distinguished name (DN).

Return Value

This command returns nothing.

Examples

validate_license "CN=Licenses,OU=Acme,DC=acme,DC=com"

This example looks in the acme.com/Acme/Licenses container for a valid license.

Related Commands

The following commands perform actions related to this command:

- bind defines the current domain.
- create_zone does in implicit validate license during execution.
- show with the license option lists all forests that have a valid license.

write_role_assignment

Use the write_role_assignment command to write the selected role assignment with its current settings to a file in JSON format. You can use this command to save the currently selected role assignment that is stored in memory to a file with the permissions of 0600. If the file already exists, the command truncates the file. If the command cannot open or write to the specified file, the command fails with an error message.

Zone Type

Hierarchical only

Syntax

write_role_assignment file

Abbreviation

wra

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
file	string	Required. Specifies the file to which the command writes the role assignment.

Return Value

This command returns nothing.

Examples

write_role_assignment roleassignment.txt

Related Commands

Before you use this command, you must have a currently selected zone stored in memory. The following commands enable you to view and select role assignment to work with:

- get_role_assignments returns a Tcl list of role assignments in the current zone.
- list_role_assignments lists to stdout the role assignments in the current zone.
- new_role_assignment creates a new role assignment and stores it in memory.
- select_role_assignment retrieves a role assignment from Active Directory and stores it in memory.
- save_role_assignment saves a role assignment to Active Directory.

After you have a role assignment stored in memory, you can use the following commands to work with that role assignment's attributes, delete the role assignment, or save information for the role assignment:

- delete_role_assignment deletes the selected role assignment from Active Directory and from memory.
- get_role_assignment_field reads a field value from the current role assignment.
- save_role_assignment saves the selected role assignment with its current settings to Active Directory.
- set_role_assignment_field sets a field value in the current role assignment.
- write_role_assignment saves the selected role assignment to a file.

ADEdit Tcl Procedure Library Reference

This section describes the commands in the ade_lib Tcl library. The command descriptions are in alphabetical order. The syntax of each command shows optional elements in [square brackets] and variables in *italics*.

add_user_to_group

Use the add_user_to_group command to add an Active Directory user to an Active Directory group.

Syntax

add_user_to_group user group

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Desription
user	string	Required. Specifies the user principal name (UPN) of the Active Directory user to add.
group	string	Required. Specifies the UPN of the Active Directory group to which to add the user.

Return value

This command returns nothing if it runs successfully.

Examples

add_user_to_group adam.avery@acme.com pubs@acme.com

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets its password.
- create_adgroup creates a new Active Directory group account and specifies its scope.
- create_user creates a new zone user based on an existing Active Directory user, assigns field values to the new user, and saves the new user to Active Directory.
- create_group creates a new zone group based on an existing Active Directory group, assigns it a UNIX name and group ID, and saves the new group to Active Directory.
- remove_user_from_group removes an Active Directory user from an Active Directory group.

convert_msdate

Use the convert_msdate command to specify a Microsoft date value from an Active Directory object field such as pwdLastSet and convert it into a human-readable form.

Syntax

convert_msdate msdate

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
msdate	string	Required. Specifies the Microsoft date value for conversion.

Return value

This command returns the day of the week, the day of the month, the time of day using a 24-hour clock, the time zone, and the year.

Examples

convert_msdate [get_object_field pwdLastSet]

This example returns converted into a format similar to this:

Thu Mar 24 14:40:26 PDT 2010

The unseen value returned by get_object_field pwdLastSet in this example was 12914026824062500, which was converted to a human-readable time and date.

Related Tcl library commands

None.

create_adgroup

Use the create_adgroup command to create a new Active Directory group account with a specified distinguished name (DN), sAMAccountName, and group scope.

Syntax

create_adgroup dn sam gscope`

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
dn	string	Required. Specifies the distinguished name of the new group.
sam	string	Required. Specifies the sAMAccountName of the new group.
gscope	string	Required. Specifies the scope for the new group. The possible values are: global universal local (for Domain local)

This command returns nothing if it runs successfully.

Examples

create_adgroup {CN=pubs,CN=Users,DC=acme,DC=com} pubs global

This example creates the group pubs with a global scope in the Active Directory Users container.

create_adgroup {CN=ApacheAdmins,OU=Unix Groups,OU=ACME,DC=acme,DC=com} pubs global

This example creates the group ApacheAdmins in the organizational unit Unix Groups, which is in the organizational unit ACME.

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets its password.
- create_user creates a new zone user based on an existing Active Directory user, assigns field values to the new user, and saves the new user to Active Directory.
- create_group creates a new zone group based on an existing Active Directory group, assigns it a UNIX name and group ID, and saves the new group to Active Directory.
- add_user_to_group adds an Active Directory user to an Active Directory group.
- remove_user_from_group removes an Active Directory user from an Active Directory group.

create_aduser

Use the create_aduser command to create a new Active Directory user account with a specified distinguished name (DN), user principal name (UPN), sAMAccountName, and password.

Syntax

create_aduser dn upn sam pw ?dname? ?gname? ?spn? ?gecos?

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
dn	string	Required. Specifies the distinguished name of the new user.
upn	string	Required. Specifies the user principal name of the new user.
sam	string	Required. Specifies the sAMAccountName of the new user.
pw	string	Required. Specifies the password for the new user.
dname	string	Optional. Specifies the displayName for the new user.
gname	string	Optional. Specifies the givenName for the new user.
spn	string	Optional. Specifies the servicePrincipalName for the new user.
gecos	string	Optional. Specifies the gecos for the new user.

Return value

This command returns nothing if it runs successfully.

Examples

 $\label{local_composition} $$\operatorname{CN=ulysses.urkham_CN=Users,DC=acme,DC=com} $$ulysses.urkham@acme.com ulysses.urkham {5$6fEr2B}$

This example creates a new Active Directory user account ulysses.urkham@acme.com.

Related Tcl library commands

- create_adgroup creates a new Active Directory group account and specifies its scope.
- create_user creates a new zone user based on an existing Active Directory user, assigns field values to the new user, and saves the new user to Active Directory.
- create_group creates a new zone group based on an existing Active Directory group, assigns it a UNIX name and group ID, and saves the new group to Active Directory.
- add_user_to_group adds an Active Directory user to an Active Directory group.
- remove_user_from_group removes an Active Directory user from an Active Directory group.

create_assignment

Use the create_assignment command to create a new role assignment for a user or group and save it to Active Directory.

Syntax

create_assignment upn role[/zonename] [from] [to] [description]

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
upn	string	Required. Specifies the user principal name of the Active Directory user or group to whom to assign the role.
role*/ [zonename]*	string	Required. Specifies the name of the role to assign and (optional) the name of the zone in which the role is assigned. If the zone name is present, a slash(/) separates the role name and the zone name. If the zone name isn't present, the role assignment occurs in the currently selected zone.
from	string	Optional. Specifies the start date and time for the role assignment. The start date and time can be expressed using the format: yr-mon-day hour:min
to	string	Optional. Specifies the expiration date and time for the role is assignment. The expiration date and time can be expressed using the format: yr-mon-day hour:min
description	string	Optional. Specifies a description of the role assignment.

Return value

This command returns nothing if it runs successfully.

Examples

create_assignment ulysses.urkham@acme.com admin/support {} {} "Test assignment"

This example creates a role assignment for the rights defined in the role "admin" from the "support" zone to the user Ulysses Urkham. The role assignment is set to start immediately (by specifying) and never expire (by specifying the second) and has an optional description.

create_assignment amy@example.demo mgr {2021-03-31 10:51} {2021-03-31 12:51}

This example creates a role assignment for the rights defined in the role "mgr" from the current zone to the user amy@example.com. This role assignment is set to start at a specific time and expire two hours later and has no description.

Related Tcl library commands

None.

create_dz_command

Use the create_dz_command command to create a new UNIX privileged command in the currently selected zone.

Syntax

create_dz_command dzc cmd ?desc? ?form? ?dzdo_runas? ?dzsh_runas? ?flags? ?pri? ?umask?
?path? ?selinux_role? ?selinux_type?

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new UNIX command.
command	string	Required. Specifies the UNIX command string or strings. You can use wild cards or a regular expression.
description	string	Optional. Specifies text describing the UNIX command.
form	integer	Optional. Specifies whether the command and path strings use wild cards (0) or a regular expression (1).
dzdo_runas	string	Optional. Specifies the list of users and groups that can run this command under dzdo (similar to sudo). Users can be listed by user name or UID.
selinux_role	string	Optional. Specifies the SELinux role to use when constructing a new security context for command execution. Note that selinux_role is only supported on Red Hat Enterprise Linux systems and effective only on systems with SELinux enabled and joined to a hierarchical zone.
selinux_type	string	Optional. Specifies the SELinux type to use when constructing a new security context for command execution. Note that selinux_type is only supported on Red Hat Enterprise Linux systems and effective only on systems with SELinux enabled and joined to a hierarchical zone.
dzsh_runas	string	Optional. Specifies the list of users and groups that can run this command in the restricted shell environment (dzsh). Users can be listed by user name or UID.
flags	integer	Optional. Specifies an integer that defines a combination of different properties for the command. For more information about setting this field, see set_dzc_field.

Argument	Туре	Description
pri	integer	Optional. Specifies the command priority for the restricted shell command object. For more information about setting this field, see set_dzc_field.
umask	integer	Optional. Specifies an integer that defines who can execute the command. For more information about setting this field, see set_dzc_field.
path	string	Optional. Specifies the path to the command's location. You can use wild cards, a regular expression, or one of the following keywords: USERPATH to set to the command path to the equivalent of the Standard user path option. SYSTEMPATH to set to the path to the equivalent of the Standard system path option. SYSTEMSEARCHPATH to set to the path to the equivalent of the System search path option. If you don't specify this argument, the default is USERPATH.

This command returns nothing if it runs successfully.

Examples

create_dz_command testvi vi {Test UNIX command vi} {} {sfapps:perez,cody} {} {16}

Related Tcl library commands

None.

create_group

Use the create_group command to create a new zone group for the currently selected zone. This command creates the new group based on an existing Active Directory group. It also assigns the new group a new UNIX profile that includes the UNIX group name and the UNIX group numeric identifier (GID).

Syntax

create_group upn name gid ?req?

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
upn	string	Required. Specifies the user principal name of the Active Directory group to use as the basis for the new zone group.
name	string	Required. Specifies the UNIX group name of the new zone group. For hierarchical zones only, specifying "-" unsets the name value.
gid	string	Required. Specifies the UNIX group ID to assign to the new zone group. For hierarchical zones only, specifying "-" unsets the gid value.
req	string	Optional. Specifies whether the zone group is required. Set the value to 1, y, yes, or true if the group is required in the zone or to 0, n, no, or false if the group in not required in the zone. All other values throw an exception. If a group is required, users cannot remove the group from their active set of groups.

This command returns nothing if it runs successfully.

Examples

create_group pubs@acme.com pubs 1094

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets its password.
- create_adgroup creates a new Active Directory group account and specifies its scope.
- create_user creates a new zone user based on an existing Active Directory user, assigns field values to the new user, and saves the new user to Active Directory.
- add_user_to_group adds an Active Directory user to an Active Directory group.
- remove_user_from_group removes an Active Directory user from an Active Directory group.

create_nismap

Use the create_nismap command to create a new NIS map in the currently selected zone.

Syntax

create_nismap map key:value comment

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
map	string	Required. Specifies the name of the new NIS map
key	string	Required. Specifies the key of the NIS map entry.
value	string	Required. Specifies the value of the NIS map entry.
comment	string	Required. Specifies the comment for the NIS map entry.

Return value

This command returns nothing if it runs successfully.

Examples

 $create_nismap \ animals \ \{\{cat:1 \ \{The \ cat \ says \ "Mew\!".\}\} \ \{cow:1 \ \{The \ cow \ says \ "Moo\!".\}\}\}$

Related Tcl library commands

None.

create_pam_app

Use the create_pam_app command to create a new PAM application access right in the currently selected zone.

Syntax

create_pam_app name application description

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new PAM application access right.

Argument	Туре	Description
application	string	Required. Specifies the name of the PAM application that is allowed to use the adclient PAM authentication service. The name can be literal, or it can contain? or * wild card characters to specify multiple applications. Note that in a classic zone, setting the application field changes the name of the PAM application right. For example, assume you create a new PAM application right in a classic zone using a command like this: create_pam_app myftp newftp "sample PAM FTP application". The PAM application right itself will be renamed as newftp:list_pam_appsnewftp:Sample PAM FTP application. Therefore, in a classic zone, you should always specify the same string for the name and application arguments. In a hierarchical zone, you can specify different strings for the arguments.
description	string	Optional. Specifies the text describing the PAM application.

This command returns nothing if it runs successfully.

Examples

create_pam_app testvi vi {Test UNIX command vi}

Related Tcl library commands

None.

create_role

Use the create_role command to create a new role definition in the currently selected zone.

Syntax

create_role name description sysrights pamrights cmdrights allowlocal rsenv visible

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
name	string	Required. Specifies the name to assign to the new role.
description	string	Specifies the text string that describes the role.

Argument	Туре	Description
sysrights	integer	Specifies the system rights granted to the role. This value is an integer that represents a combination of binary flags, one for each system right. This field is not applicable in classic zones.
pamrights [/zonename]	string	Specifies the PAM application rights to add to the currently selected role. If the PAM application right that you want to add is defined in the current zone, the <i>zonename</i> argument is optional. If the PAM application right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific PAM application right to add.
cmdrights [/zonename]	string	Specifies the UNIX command rights to add to the currently selected role. If the UNIX command right that you want to add is defined in the current zone, the <i>zonename</i> argument is optional. If the UNIX command right is defined in a zone other than the currently selected zone, the <i>zonename</i> argument is required to identify the specific UNIX command right to add.
allowlocal	Boolean	Specifies whether local users can be assigned to the role. If this argument is specified, local users can be assigned to the role. This argument is only applicable if the zone is a hierarchical zone.
rsenv	string	Specifies a restricted shell environment for the role you are creating. This argument is only applicable if the zone is a classic zone.
visible	Boolean	Specifies whether the account profiles for Active Directory users in the role are visible on computers in the zone. This argument is only applicable if the zone is a hierarchical zone.

This command returns nothing if it runs successfully.

Examples

create_role dba {Database admins - US} 11 {{oracle} {ftp}} {{testvi} {ora-stp}}

Related Tcl library commands

None.

create_rs_command

Use the create_rs_command command to create a new restricted shell command for the currently selected restricted shell environment.

Syntax

create_rs_command rsc_name cmd description form dzsh_runas flags pri umask path

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
rsc_name	string	Required. Specifies the name of the restricted shell command.
cmd	string	Required. Specifies the restricted shell command string or strings. You can use wild cards or a regular expression.
description	string	Optional. Specifies the text describing the restricted shell command.
form	integer	Optional. Indicates whether the cmd and path strings use wild cards (0) or a regular expression (1).
dzsh_runas	string	Optional. Specifies the list of users and groups that can run this command in a restricted shell environment (dzsh). Users can be listed by user name or UID.
flags	string	Optional. Specifies an integer that specifies a combination of different properties for the command. For more information about setting this field, see set_rsc_field.
pri	integer	Optional. Specifies the command priority for the restricted shell command object. For more information about setting this field, see set_rsc_field.
umask	integer	Optional. Specifies an integer that defines who can execute the command. For more information about setting this field, see set_rsc_field.
path	string	Optional. Specifies the path to the restricted command. You can use wild cards, a regular expression, or one of the following keywords: USERPATH to set to the command path to the equivalent of the Standard user path option. SYSTEMPATH to set to the path to the equivalent of the Standard system path option. SYSTEMSEARCHPATH to set to the path to the equivalent of the System search path option. If you don't specify this argument, the default is USERPATH.

Return value

This command returns nothing if it runs successfully.

Examples

create_rs_command test_id id {Sample restricted command description}

Related Tcl library commands

The following commands perform actions related to this command:

create_rs_env creates a new restricted shell environment.

create rs env

Use the create_rs_env command to create a new restricted shell environment for the currently selected zone.

Syntax

create_rs_env rse_name rse_description

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
rse_name	string	Required. Specifies the name of the new restricted shell environment.
rse_description	string	Optional. Specifies the description for the new restricted shell environment.

Return value

This command returns nothing if it runs successfully.

Examples

create_rs_env restrictedenv "This is a restricted shell environment"

Related Tcl library commands

The following commands perform actions related to this command:

create_rs_command creates a new restricted shell command.

create_user

Use the create_user command to create a new zone user for the currently selected zone. This command creates the new user based on an existing Active Directory user. It also assigns the new user a new UNIX profile that includes the user name, user ID, primary group ID, GECOS data, home directory, shell type, and role (or in classic zones whether the user is enabled or disabled).

You can assign the new user a role in a non-classic zone or you can enable or disable the new user in a classic zone. In a non-classic zone, create_user uses whatever role you specify to create a new role assignment object that links the new zone user to the specified role.

Syntax

create_user UPN uname uid gid gecos home shell role

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
UPN	string	Required. Specifies the user principal name of the Active Directory user to use as the basis for the new zone user.
uname	string	Required. Specifies the user name of the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the user name.
uid	string	Required. Specifies the user ID for the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the user ID.
gid	string	Required. Specifies the group ID for the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the group ID.
gecos	string	Required. Specifies the GECOS value (new user account information) for the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the GECOS value. You can't set the GECOS value if the currently selected zone is a classic zone.
home	string	Required. Specifies the home directory for the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the home directory.
shell	string	Required. Specifies the shell type for the new zone user. For hierarchical zones, you can specify a dash (-) for this argument if you don't want to set the shell type.
role	string or Boolean value	Required. For classic zones, this argument determines whether to enable or disable the new zone user. A value of 1, Y, or y enables the user. Any other value disables the user. For hierarchical zones, this argument identifies the role to assign to the new zone user. You can specify a dash (-) for this argument if you don't want to set the role. However, a role must be assigned before the new zone user has access to computers in hierarchical zones.

Return value

This command returns nothing if it runs successfully.

Examples

create_user ulysses.urkham@acme.com ulysses 1005 - - %{home}/%{user} %{shell} -

This example creates a zone user "ulysses" based on the Active Directory user ulysses.urkham@acme.com. It sets a UID, does not set a GID or GECOS value by using dashes, sets home and shell values, and does not set a role value (specified by using a dash).

Related Tcl library commands

- create_aduser creates a new Active Directory user account and sets its password.
- create_adgroup creates a new Active Directory group account and specifies its scope.
- create_group creates a new zone group based on an existing Active Directory group, assigns it a UNIX name and group ID, and saves the new group to Active Directory.
- add_user_to_group adds an Active Directory user to an Active Directory group.
- remove_user_from_group removes an Active Directory user from an Active Directory group.

decode_timebox

Use the decode_timebox command to convert an internal timebox value that defines when a role is enabled or disabled into a format that can be evaluated. The command converts the internal hexadecimal value for a role timebox to a hexadecimal timebox value format as described in **Timebox Value Format**.

The command returns a 168-bit value in hexadecimal format that delineates the hours of the week from midnight Sunday to 11 PM Saturday in order from most-significant bit to least-significant bit. If a bit is set to 1, its corresponding hour is enabled for the role. If set to 0, its corresponding hour is disabled.

This command is useful for deciphering the value returned by the get_role_field for the timebox field.

Syntax

decode_timebox strTimeBox

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
strTimeBox	hex	A 42-digit hexadecimal timebox value. A value of zero disables all hours of the week. A value of FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Return value

This command returns a decoded hexadecimal value that is the timebox value for a role.

Examples

This example returns the decoded 42 hexadecimal that indicates the role is disabled from midnight to one on Sunday:

Related Tcl library commands

The following commands perform actions related to this command:

- encode_timebox converts a readable timebox value to an internal timebox format.
- modify_timebox defines an hour of the week and enables or disables that hour in the timebox value.

encode_timebox

Use the encode_timebox command to convert a human-readable timebox value that defines the when a role is enabled or disabled to an internal timebox value format.

The command converts the hexadecimal timebox value format described in **Timebox Value Format** to the internal hexadecimal value for a role. The command accepts a 168-bit value in hexadecimal format that delineates the hours of the week from midnight Sunday to 11 PM Saturday from most-significant bit to leastsignificant bit. If a bit is set to 1, its corresponding hour is enabled for the role. If set to 0, its corresponding hour is disabled.

This command is useful for setting the timebox field with the set role field command.

Syntax

encode_timebox strTimeBox

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
strTimeBox	hex	A 42-digit hexadecimal timebox value. A value of zero disables all hours of the week. A value of FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

This command returns a decoded hexadecimal value that is the timebox value for a role.

Examples

This example returns the encoded 42 hexadecimal that indicates the role is disabled from midnight to one on Sunday:

Related ade_lib Tcl library commands

The following commands perform actions related to this command:

- decode_timebox converts an internal timebox value to a decipherable format.
- modify_timebox defines an hour of the week and enables or disables that hour in the timebox value.

explain_groupType

Use the explain_groupType command to convert a groupType value from an Active Directory object field into human-readable form.

Syntax

explain_groupType gt

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
gt	string	Required. A groupType value for conversion.

Return value

This command returns a hexadecimal version of the supplied value followed by the names of any flags that are set in the value.

Examples

explain_groupType [get_object_field groupType]

This example returns:

80000004 DOMAIN_LOCALSECURITY

The unseen value returned by get_object_field groupType in this example was -2147483644, which was converted to the hexadecimal value 80000004 and the name of the set flag DOMAIN LOCALSECURITY.

Related Tcl library commands

The following commands perform actions related to this command:

- explain_trustAttributes converts a trustAttributes value from an Active Directory object into humanreadable form.
- explain_trustDirection converts a trustDirection value from an Active Directory object into human-readable form
- explain_userAccountControl converts a userAccountControl value from an Active Directory object into human-readable form.

explain_ptype

Use the explain_ptype command to translate the account type for a role assignment into a descriptive text string.

Syntax

explain_ptype pt

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
pt	string	Required. Specifies the ptype value returned for a role assignment that you want to convert to a text string.

Return value

This command returns a text string that describes the type of account associated with a role assignment.

Examples

```
select_role_assignment "lulu@acme.test/UNIX Login"
get_role_assignment_field ptype
a
explain_ptype a
```

This example returns:

All AD users

The following table summarizes the descriptive names for different account types that can be associated with a role assignment:

Account type	
Local UNIX user	#
Local UNIX group	%
Local Windows User	\$
Local Windows Group	:
All AD users	а
All Unix users	х
All Windows users	W

explain_trustAttributes

Use the explain_trustAttributes command to convert a trustAttributes value from an Active Directory object field into human-readable form.

Syntax

explain_trustAttributes ta

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
ta	string	Required. A trustAttributes value for conversion.

This command returns a hexadecimal version of the supplied value followed by the names of any flags that are set in the value.

Examples

explain_trustAttributes [get_object_field trustAttributes]

This example returns:

8 FOREST_TRANSITIVE

The unseen value returned by get_object_field trustAttributes in this example was 8, which was converted to the hexadecimal value 8 and the name of the set flag DOMAIN LOCALSECURITY.

Related Tcl library commands

The following commands perform actions related to this command:

- explain_groupType converts a groupType value from an Active Directory object into human-readable form.
- explain_trustDirection converts a trustDirection value from an Active Directory object into human-readable form
- explain_userAccountControl converts a userAccountControl value from an Active Directory object into human-readable form.

explain_trustDirection

Use the explain_trustDirection command to convert a trustDirection value from an Active Directory object field into human-readable form.

Syntax

explain_trustDirection td

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
td	string	Required. A trustDirection value for conversion.

Return value

This command returns the English version of the trust direction specified by the trustDirection value.

Examples

explain_trustDirection [get_object_field trustDirection]

This example returns:

two-way

Related Tcl library commands

The following commands perform actions related to this command:

- explain_groupType converts a groupType value from an Active Directory object into human-readable form.
- explain_trustAttributes converts a trustAttributes value from an Active Directory object into humanreadable form.
- explain_userAccountControl converts a userAccountControl value from an Active Directory object into human-readable form.

explain_userAccountControl

Use the explain_userAccountControl command to convert a userAccountControl value from an Active Directory object field into a human-readable form.

Syntax

explain_userAccountControl uac

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
uac	string	Required. A userAccountControl value for conversion.

Return value

This command returns a hexadecimal version of the supplied value followed by the names of any flags that are set in the value.

Examples

explain_userAccountControl [get_object_field userAccountControl]
returns:

10200 ADS_UF_NORMAL_ACCOUNT ADS_UF_DONT_EXPIRE_PASSWD

The unseen value returned by get_object_field userAccountControl in this example was 66048, which was converted to the hexadecimal value 10200 and the name of the set flags ADS_UF_NORMAL_ACCOUNT and ADS_UF_DONT_EXPIRE_PASSWD.

Related Tcl library commands

The following commands perform actions related to this command:

- explain_groupType converts a groupType value from an Active Directory object into human-readable form.
- explain_trustAttributes converts a trustAttributes value from an Active Directory object into humanreadable form.
- explain_trustDirection converts a trustDirection value from an Active Directory object into human-readable form.

get_all_zone_users

Use the get_all_zone_users command to check Active Directory and return a list of zone users defined within the specified zone and all of its parent zones. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed.

Note that this command does *not* use the currently selected zone to find its list of users. It uses instead the zone specified as an argument for the command. It ignores the currently selected zone. The selected zone remains the selected zone after the command executes.

Syntax

get_all_zone_users [-upn] zone_DN

Abbreviation

None.

Options

This command takes the following option:

Option	Туре	Description
-upn	string	Return user names in the Tcl list as universal principal names (UPNs).

Arguments

This command takes the following argument:

Argument	Туре	Description
zone_DN	string	Required. The distinguished name (DN) of the zone for which to return users.

This command returns a Tcl list of zone users defined in the currently selected zone and all of its parent zones. Each entry in the list is in the format sAMAccountName@domain. If a zone user is an orphan user (its corresponding Active Directory user no longer exists), the user is listed by its security identifier (SID) instead of the sAMAccountName.

If the -upn option is present, each entry in the returned Tcl list is a universal principal name (UPN).

Examples

get_all_zone_users engineering

The example returns the list of zone users:

adam.avery@acme.com brenda.butler@acme.com chris.carter@acme.com dave.douglas@acme.com elliot.evans@acme.com

Related Tcl library commands

The following commands perform actions related to this command:

- create_user creates a new zone user and user profile based on a specified Active Directory user.
- create_group creates a new zone group and group profile based on a specified Active Directory group.
- get_effective_groups returns a Tcl list of groups to which a specified user belongs.

get_effective_groups

Use the get_effective_groups command to return the list of effective groups from current zone up the zone hierarchy. Only groups who have a complete profile—whether defined in the current zone or inherited from a parent zone—are included.

The command supports hierarchical zone and classic zones. For classic zones, the command starts from current zone. For hierarchical zones, you can start the search for effective groups at the computer level by specifying the hostname option.

You can use the adinfo command to return the computer name.

Syntax

get_effective_groups [-hostname computer_name]

Options

This command takes the following option:

Option	Туре	Description
-hostname	string	Specifies the name of the computer to start the search at the computer or computer role level if you run the command in a hierarchical zone with computer-level overrides or computer roles. If you don't specify this option, the search starts in the current zone and computer roles are ignored.

This command returns a Tcl list of groups with complete profiles in the currently selected zone and all of its parent zones.

Example

get_effective_groups -hostname centos7.ajax.com

The example returns the list of effective groups starting at the computer level for the computer named centos7.ajax.com.

get_effective_users

Use the <code>get_effective_users</code> command to return the list of effective users from current zone up the zone hierarchy. Only users who have a complete profile—whether defined in the current zone or inherited from a parent zone—are included. Similarly, only users who have a role assignment in the current zone or inherited from a parent zone are included.

The command supports hierarchical zone and classic zones. For classic zones, the command starts from current zone. For hierarchical zones, you can start the search for effective users at the computer level by specifying the – hostname option.

Syntax

get_effective_users [-hostname computer_name]

Options

This command takes the following option:

Option	Туре	Description
-hostname	string	Specifies the name of the computer to start the search at the computer or computer role level if you run the command in a hierarchical zone with computer-level overrides or computer roles. If you don't specify this option, the search starts in the current zone and computer roles are ignored.

Return value

This command returns a Tcl list of users with complete profiles and at least one role assignment in the currently selected zone and all of its parent zones.

Example

get_effective_users -hostname centos7.ajax.com

The example returns the list of effective users starting at the computer level for the computer named centos7.ajax.com.

get_user_groups

Use the get_user_groups command to check Active Directory for a specified user and return a list of the groups to which the user belongs. If executed in a script, this command does not output its list to stdout, and no output appears in the shell where the script is executed.

Syntax

get_user_groups [-dn] [-z] user_DN|user_UPN

Abbreviation

None.

Options

This command takes the following options:

Option	Description
-dn	Return groups in the Tcl list as distinguished names (DNs) instead of user principal names (UPNs).
-Z	Restricts the Tcl list of groups to groups that belong to the current zone.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_ DN user_ UPN	string	Required. The user whose groups to return. This argument may specify the user with a distinguished name (DN) or a user principal name (UPN).

Return value

This command used without options returns a Tcl list of all groups listed in Active Directory to which the specified user belongs. Each entry in the list is the user principal name (UPN) of a group that you can use to look up that group.

If the -dn option is set, the Tcl list uses distinguished names (DNs) for groups.

If the -z option is set, the Tcl list is restricted to groups that belong to the currently selected zone.

Note that the command will not return groups for domains that aren't currently bound to ADEdit. If the command finds one or more groups outside of the currently bound domains, it will return a "no binding" message for each unbound domain in which it finds a user's group.

Examples

get_user_groups fred.forth@acme.com

This example returns a list of groups:

poweradmins@acme.com auditors@acme.com

Related Tcl library commands

The following commands perform actions related to this command:

- create_group creates a new zone group and group profile based on a specified Active Directory group.
- create_user creates a new zone user and user profile based on a specified Active Directory user.
- get_all_zone_users returns a Tcl list of zone users for the specified zone and all of its parent zones.

get_user_role_assignments

Use the <code>get_user_role_assignments</code> command to retrieve all of the role assignments in the current zone for a specified user. This command returns all of the role assignments from the groups to which the user belongs and the role assignments assigned directly to the user account.

The command checks Active Directory for the user you specify, identifies the groups that the user is a member of, then returns all the role assignments for the list of groups the user is a member and that have been specifically assigned to the user account, including any user role assignments made in computer roles for the currently selected zone.

Syntax

get_user_role_assignments [-visible] [-hostname hostname] user_DN

Abbreviation

None.

Options

This command takes the following option:

Option	Description
-visible	Specifies that you want to return only visible role assignments in the zone. Use this option to return role assignments for the roles that are identified as visible. This option is only applicable in hierarchical zones.

Option	Description
-hostname	Specifies the computer name to search for role assignments to the user in computer roles. If you set this option, the command checks for computer role assignments in the currently selected zone.

Arguments

This command takes the following argument:

Argument	Туре	Description
user_DN	string	Required. Specifies the user whose role assignments you want to return. You can use this argument to specify the distinguished name (DN) for a user or a group.

Return value

This command returns a list of all role assignments for the specified Active Directory user in the currently selected zone.

Note that the command does not return role assignments for all zones where the user might be assigned a role.

Examples

```
select_zone
"cn=northamerica,cn=zones,ou=acme,dc=pistolas,dc=org"
get_user_role_assignments
"cn=amy.adams,cn=users,dc=pistolas,dc=org"
```

This example returns a list of groups:

```
{amy.adams@pistolas.org/UNIX Login/northamerica} {admsf@pistolas.org/Root/sanfrancisco} {apps@pistolas.org/demos/seattle}
```

Related Tcl library commands

The following commands perform actions related to this command:

- get_all_zone_users returns a Tcl list of zone users for the specified zone and all of its parent zones.
- get_effective_groups returns a list of the groups to which the user belongs.

list zones

Use the list_zones command to list the zones within a specified domain along with information about each zone. If executed in a script, this command outputs its list to stdout so that the output appears in the shell where the script is executed. The command does not return a Tcl list back to the executing script. Use the ADEdit command get_zones to return a Tcl list.

Syntax

list_zones domain

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
domain	string	Required. The name of the domain in which to list zones.

Return value

This command returns a list to stdout of the zones within the specified domain. Each entry in the list contains:

- `The zone's distinguished name (DN)
- The zone type: tree (supported in Server Suite 2012 or later), classic3 or classic4
- `The schema used in the zone

Each entry component is separated from the next by a colon (:).

Examples

list_zones

This example returns a list of zones similar to this:

```
{CN=default,CN=Zones,CN=Acme,DC=acme,DC=com} : classic4 : std
{CN=cz1,CN=Zones,CN=Acme,DC=acme,DC=com} : tree : std
{CN=cz2,CN=Zones,CN=Acme,DC=acme,DC=com} : tree : std
{CN=global,CN=Zones,CN=Acme,DC=acme,DC=com} : tree : rfc
```

Related Tcl library commands

The following commands perform actions related to this command:

- create_assignment creates a new role assignment and saves it to Active Directory.
- precreate_computer creates a zone profile and, if necessary, a new Active Directory computer account.

Imerge

Use the Imerge command to merge and sort the specified lists. You specify the lists to merge as arguments. You must enclose the list commands you want to merge in square brackets.

Syntax

```
lmerge [list1] [list2] [list[...]]
```

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
[list1]	string	Specifies the list command that return the information you want to include first in the merged results.
[list2)	string	Specifies the list command that return the information you want to include second in the merged results.
[list[]]	string	Specifies any additional list commands that return information you want to include in the merged results.

Return value

This command returns nothing if it runs successfully.

Examples

lmerge [list_zone_users] [list_zone_computers] [list_roles]

This example returns a merged list of zone users, zone computers, and zone roles similar to this:

```
fred@pistolas.org:fred:580398:648:%{u:displayName}:%{home}/%{user}:%{shell}:
lane@pistolas.org:lane:580397:648:%{u:displayName}:%{home}/%{user}:%{shell}:
maya@pistolas.org:maya:580320:648:%{u:displayName}:%{home}/%{user}:%{shell}:
ubu1$@pistolas.org: cpus(1) agentVersion(CentrifyDC 5.2.0): ubu1.pistolas.org
nic3$@pistolas.org: cpus(2) agentVersion(CentrifyDC 5.2.0): nic3.pistolas.org
Rescue - always permit login
listed
UNIX Login
```

```
UnixAdminRights
Windows Login
```

You can specify the list arguments using full command names or abbreviations. For example:

```
lmerge [lszc] [lspa]
ubu1$@pistolas.org: cpus(1) agentVersion(CentrifyDC 5.2.0): ubu1.pistolas.org
nic3$@pistolas.org: cpus(2) agentVersion(CentrifyDC 5.2.0): nic3.pistolas.org
dzssh-all/Headquarters : dzssh-* : All of ssh services
login-all/Headquarters : * : Predefined global PAM permission. Do not delete.
```

Related Tcl library commands

None.

modify_timebox

Use the modify_timebox command to modify a timebox value that defines the hours of a week when a role is enabled or disabled. The command defines an hour of the week and then enables or disables that hour in the timebox value. This command is very useful in the set_role_field ADEdit command when setting the timebox field.

Execute this command multiple times on a timebox value to set more than one hour in the value.

For more information about the timebox value format, read the **Timebox Value Format**.

Syntax

modify_timebox strTimeBox day hour avail

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
strTimeBox	hex	A 42-digit hexadecimal timebox value. A value of zero disables all hours of the week. A value of FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
day	integer	Required. The day of the week when the hour occurs. 0=Sunday, 1=Monday, and so on to 6=Saturday.

Argument	Туре	Description
hour	integer	Required. The hour of the day to enable or disable. Takes a value from 0 to 23. 0 is from midnight to 1 AM, 1 is from 1 AM to 2 AM, and so on to 23, which is from 11 PM to midnight.
avail	integer	Required. Whether to enable or disable the specified hour. 0=disable; all other values=enable.

This command returns a hexadecimal value that is the timebox value after enabling or disabling the specified hour of the week.

Examples

Related Tcl library commands

The following commands perform actions related to this command:

- decode_timebox converts an internal timebox value to a decipherable format.
- encode_timebox converts a readable timebox value to an internal timebox format.

precreate computer

Use the precreate_computer command to create a zone profile for a computer in Active Directory before using the adjoin command to join the domain. The zone profile—a serviceConnectionPoint (scp) object—is usually created by the adjoin command when a computer joins the domain. In some cases, however, creating the zone profile before joining is useful. For example, preparing the computer object before joining enables you to check that you have user profiles and role assignments correctly defined before you join UNIX computers to zones. Verifying this information before the join operation helps to ensure a smooth migration without disrupting users' access to files or applications.

The zone profile is part of an Active Directory computer object. If an Active Directory computer object doesn't exist, precreate_computer can create one and then add the zone profile to the new Active Directory computer object. The zone profile is created in ADEdit's currently selected zone. You can also use the precreate_computer command to specify a container where Active Directory will store the new Active Directory computer object.

You can use the precreate_computer command to create a service connection point for a new or existing Active Directory computer object. You can also use the command to create a computer-specific zone for machine-level

zone overrides (in essence a one-computer zone) for the precreated computer. You should note that performing these tasks requires access to the global catalog by default. You can intentionally skip the global catalog search if you know the service connection point you are creating is unique in the forest. However, skipping the global catalog search might prevent you from joining the computer to the domain if there is a conflict.

The precreate_computer command also sets the Active Directory computer object's password and permissions when creating a zone profile. The password is the computer's host name in lower case. The permissions the computer object has are:

- Read and Write permissions to the operatingSystemServicePack, operatingSystem, and operatingVersion attributes of the computer object.
- Read permission for the userAccountControl attribute of the computer object.
- Validate write to the servicePrincipalName and dNSHostName attributes.

You can use precreate_computer to specify a DNS name for the precreated computer and one or more trustees for the precreated computer. Each trustee can be either a user or a group, and has the rights needed to join the computer to the precreated computer account using adjoin.

Use the precreate_computer command option, enctype, to specify encryption types.

The precreate_computer command is similar to using adjoin -precreate, but provides more options and flexibility. You can also precreate computer accounts using Access Manager. For more information about precreating computer accounts, See the **Administrator's Guide for Linux and UNIX**.

Syntax

```
precreate_computer *samaccount@domain*[-ad] [-scp] [-czone] [-all] [-container *rdn*]
[-dnsname *dnsname*] [licensetype *type*] [-trustee *upn*[-trustee *upn*] ...] [nogc]
[stype *spn* [-stype *spn*] ...] [-enctype type [-enctype type] ...]
[-notdelegateanyright] [-password <password>]
```

Options

This command takes the following options:

Option	Description
-ad	Creates an Active Directory computer object. precreate_computer won't create an Active Directory computer object if it already exists for the computer specified by the argument upn. Note that if no options specify Active Directory computer object creation and no Active Directory computer object already exists, precreate_computer will fail.
-all	Creates an Active Directory computer object (if one doesn't exist already), a service connection point for the computer object, and a computer zone for the computer object: in essence all of the previous three options combined.

Option	Description
-container	Stores the new Active Directory computer object (if created) in the Active Directory container specified by rdn, which is the relative distinguished name (RDN) of the container. The root of the specified Active Directory container is the distinguished name (DN) of the current domain. precreate_computer appends the RDN to the root DN to come up with the container DN.
-czone	Creates a computer zone for the computer object.
-dnsname	Sets the DNS name for the computer account to the provided DNS name. If this option isn't present, the precreate_computer command automatically sets the DNS name for the computer account. It derives the DNS name from the computer's sAMAccount name and the domain name.
-enctype	Set the msDS encryption types permitted in precreate _computer command. Default is 31. Options are: aes256-cts-hmac-sha1-96, aes256-cts aes128-cts-hmac-sha1-96, aes128-cts arcfour-hmac, rc4-hmac, arcfour-hmac-md5 des-cbc-md5, des des-cbc-crc
-licensetype	Specifies the type of license a computer uses. The valid values are server workstation
-nogc	Allows you to create the computer account without binding to a global catalog domain controller. You should only use this option if you know the computer scp object does not exist in the domain.
-notdelegateanyright	Allows you to create the computer account without delegating any rights. If you specify this option, note that the -trustee option has no effect.
-password	Specifies the password for the computer. If you don't specify a password, the service uses the default password.
-scp	Creates a service connection point for the Active Directory computer object.
-stype	Specifies the service principal types to create for a precreated computer account. You can specify multiple -stype options, with each specifying a different service principal type. If you don't specify this option, the precreate_computer command automatically creates the several default service principal names for the following service principal types: ipp afpserver nfs cifs ftp http host For each type of service, the precreate_computer command specifies two service principal names in the form of serviceName/computerName and serviceName/computerName.domain.com. For example: ftp/rhel6 ftp/rhel6.acme.com If you specify one or more -stype options, only the service principal names for those service types are created for the precreated computer account.

Option	Description
-trustee	Gives the user or group specified by the <i>upn</i> argument permission to join a computer to the precreated computer account. You can specify multiple -trustee options, with each specifying a different user or group, to give multiple users and groups permission to join a precreated computer to a zone.

Arguments

This command takes the following argument:

Argument	Туре	Description
samaccount@domain	string	Required. Specifies the name of the computer account and the domain to join. The computer name is the sAMAccountName for the account in the form of <i>computer\$</i> . For example: engserv\$@acme.com

Return value

This command returns nothing if it runs successfully.

Examples

precreate_computer redhat\\$@acme.com -trustee adam.avery@acme.com
\-trustee martin.moore@acme.com -enctype arcfour-hmac

This example precreates a zone profile in the currently selected zone for the computer "redhat\$@acme.com", and specifies as trustees the Active Directory users Adam Avery and Martin Moore.

Because the example does not include the -stype option, this example also automatically creates the following default service principal names for services on the computer:

- ipp/redhat and ipp/redhat.acme.com
- afpserver/redhat and afpserver/redhat.acme.com
- nfs/redhat and nfs/redhat.acme.com
- cifs/redhat and cifs/redhat.acme.com
- ftp/redhat and ftp/redhat.acme.com
- http/redhat and http/redhat.acme.com
- host/redhat and host/redhat.acme.com

Related Tcl library commands

The following commands perform actions related to this command:

- list_zones returns a list of zones in a specified domain to stdout.
- create_assignment creates a new role assignment and saves it to Active Directory.

remove_user_from_group

Use the remove_user_from_group command to remove an Active Directory user from an Active Directory group.

Syntax

remove_user_from_group user group

Options

This command takes no options.

Arguments

This command takes the following arguments:

Argument	Туре	Description
user	string	Required. The user principal name (UPN) of the Active Directory user to remove.
group	string	Required. The UPN of the Active Directory group from which to remove the user.

Return value

This command returns nothing if it runs successfully.

Examples

remove_user_from_group adam.avery@acme.com pubs@acme.com

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets its password.
- create_adgroup creates a new Active Directory group account and specifies its scope.
- create_user creates a new zone user and user profile based on an existing Active Directory user.
- create_group creates a new zone group and group profile based on an existing Active Directory group.
- add_user_to_group adds an Active Directory user to an Active Directory group.

set_change_pwd_allowed

Use the set_change_pwd_allowed command to modify the ADS_UF_PASSWD_CANT_CHANGE flag in the UserAccountControl attribute. This flag controls whether an Active Directory user can change his or her domain

password. You must specify the distinguished name of a valid Active Directory user account that should be allowed to change his or her password.

Syntax

set_change_pwd_allowed userdn

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
userdn	string	Required. Specifies the distinguished name of the Active Directory user who is allowed to change his or her password.

Return value

This command returns nothing if it runs successfully.

Examples

```
set_change_pwd_allowed
CN=frank.smith,CN=Users,DC=ajax,DC=test
get_object_field sd

(OA;;CR;ab721a53-1e2f-11d0-9819-00aa0040529b;;WD)
(OA;;CR;ab721a53-1e2f-11d0-9819-00aa0040529b;;PS)
```

This example deselects the "User cannot change password" account property for the Active Directory user frank.smith.

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets the password for the account.
- set_change_pwd_denied prevents an Active Directory user from changing the domain password for his or her account.

set change pwd denied

Use the set_change_pwd_denied command to modify the ADS_UF_PASSWD_CANT_CHANGE flag in the UserAccountControl attribute. This flag controls whether an Active Directory user can change his or her domain

password. You must specify the distinguished name of a valid Active Directory user account that should not be allowed to change his or her password.

Syntax

set_change_pwd_denied userdn

Options

This command takes no options.

Arguments

This command takes the following argument:

Argument	Туре	Description
userdn	string	Required. Specifies the distinguished name of the Active Directory user who is not allowed to change his or her password.

Return value

This command returns nothing if it runs successfully.

Examples

```
set_change_pwd_denied CN=adam.avery,CN=Users,DC=ajax,DC=test
get_object_field sd

(OD;;CR;ab721a53-1e2f-11d0-9819-00aa0040529b;;WD)
(OD;;CR;ab721a53-1e2f-11d0-9819-00aa0040529b;;PS)
```

This example selects the "User cannot change password" account property for the Active Directory user adam.avery.

Related Tcl library commands

The following commands perform actions related to this command:

- create_aduser creates a new Active Directory user account and sets the password for the account.
- set_change_pwd_allows an Active Directory user to change the domain password for his or her account.

Timebox Value Format

A Delinearole specifies a collection of rights. A role object contains a field, timebox, that defines what hours in a week a role is either enabled or disabled. Setting the timebox field in a role object defines when a role's rights are in effect.

You can read a role's timebox field using the ADEdit command get_role_field and set the timebox value using set_role_field. You can modify an existing timebox value one hour at a time using the ADEdit library command modify_timebox.

To interpret a timebox value, or to set it directly, you must know the timebox value format which is, unfortunately, not simple as defined by Active Directory. This appendix explains the format.

Hex string

The timebox value is a 42-character (21-byte) hexadecimal value stored as a string. When the hex value is converted to a binary value, its 168 bits each map to a single hour within the week. If a bit is set to 1, its corresponding hour is enabled for the role. If set to 0, its corresponding hour is disabled.

After you define the 168 bits using a hexadecimal value, you can usee the encode_timebox function to convert the value into an internal format that specifies when a role is available to use.

Hour mapping

Each day of the week takes three bytes (24 bits) to specify how its hours are enabled or disabled. The following tables show how the hours of a day are mapped to the bits within each of a day's three bytes.

Byte 0

Hour	Bit
12-1 AM	0 (least-significant bit)
1-2 AM	1
2-3 AM	2
3-4 AM	3
4-5 AM	4
5-6 AM	5
6-7 AM	6
7-8 AM	7 (most-significant bit)

Byte 1

Hour	Bit
8-9 AM	0 (least-significant bit)
9-10 AM	1
10-11 AM	2
11-12 AM	3
12-1 PM	4
1-2 PM	5
2-3 PM	6
3-4 PM	7 (most-significant bit)

Byte 2

Hour	Bit
4-5 PM	0 (least-significant bit)
5-6 PM	1
6-7 PM	2
7-8 PM	3
8-9 PM	4
9-10 PM	5
10-11 PM	6
11-12 PM	7 (most-significant bit)

Day mapping

Each of the seven days in a week have three bytes within the 21-byte timebox value. These bytes are in chronological order from most-significant byte to least-significant byte. (Note that this is the opposite of chronological bit order within each byte, which is LSB to MSB.) The starting point of a week is 4 PM on Saturday afternoon.

Timebox Value Format

The table below shows how each day's three bytes (0-2) map to the timebox value's bytes, listed here in order from most-significant byte to least-significant byte.

Day byte	Timebox value byte
Saturday, byte 2	20 (most-significant byte)
Sunday, byte 0	19
Sunday, byte 1	18
Sunday, byte 2	17
Monday, byte 0	16
Monday, byte 1	15
Monday, byte 2	14
Tuesday, byte 0	13
Tuesday, byte 1	12
Tuesday, byte 2	11
Wednesday, byte 0	10
Wednesday, byte 1	9
Wednesday, byte 2	8
Thursday, byte 0	7
Thursday, byte 1	6
Thursday, byte 2	5
Friday, byte 0	4
Friday, byte 1	3
Friday, byte 2	2
Saturday, byte 0	1
Saturday, byte 1	0 (least-significant byte)

Using ADEdit with Classic Zones

Delineasupports both classic and hierarchical zones. If you have upgraded agents to a version of Delineasoftware that supports hierarchical zones (version 5.x or later), you can choose to either migrate your classic zones into a hierarchical zone structure or maintain them as classic zones.

If you choose to maintain any zones as classic zones, however, you should be aware that the authorization model in classic zones differs from the authorization model used in hierarchical zones. For example, in classic zones, authorization is an optional feature that can be enabled or disabled. If authorization is not enabled in a classic zone, any user with a valid profile in a zone is automatically granted login access to all computers joined to that zone.

Because authorization is handled differently in classic zones, there are specialized ADEdit commands and command options for creating and managing rights and roles in classic zones. The commands in this appendix are only applicable when you are working with classic zones.

Enabling Authorization in Classic Zones

The following ADEdit commands are used to enable or disable authorization in a classic zone and to check whether authorization is currently enabled or disabled.

Command	What it does
is_dz_enabled	Checks whether authorization is enabled in a currently selected classic zone.
manage_dz	Enables or disables authorization in classic zones.

Working with privileged Commands and PAM Applications

With some limitations, you can use most of the ADEdit commands for working with rights, role definitions, and role assignments in classic zones in the same way you work with them in hierarchical zones. In a classic zone, however, you must explicitly enable authorization for the zone. Thereafter, defining rights and roles or making role assignments work the same in classic zones and hierarchical zones.

In most cases, any differences or limitations for classic zones involve options or arguments that are not supported or not applicable in classic zones. For example, fields such as allowLocalUser, alwaysPermitLogin, and auditLevel are not applicable in classic zones. You can use the set_role_field command to set other field values in a classic zone. Individual commands specify these types of limitations.

Working with Restricted Shell Environments and Commands

Before you can use the restricted shell (dzsh) to run commands in a classic zone, you must create the restricted shell environment. After you have created the restricted shell environment in your working context, you can run restricted shell commands in that dzsh context.

Restricted commands cannot be assigned to a role directly. A restricted shell environment has to be created first. The restricted shell commands can then be created under the currently selected restricted shell environment. Only one restricted shell environment can be assigned to a role. The restricted shell environment and privileged UNIX commands cannot be assigned to a role simultaneously. Assigning a new restricted shell environment to a role

removes all of the previously defined privileged UNIX commands from the restricted shell. Assigning new privileged commands to a role that previously had a restricted shell environment removes the restricted shell environment and any restricted shell commands defined for the restricted shell environment.

Setting up the restricted shell environment

The following ADEdit commands are used to set up and manage the restricted shell environment prior to working with any restricted shell commands.

Command	What it does
clear_rs_ env_from_ role	Removes the restricted shell environment from the currently selected role that is stored in memory.
delete_rs_ env	Deletes the currently selected restricted environment from Active Directory and also from memory.
get_role_rs_ env	Gets the restricted shell environment from the currently selected role that is stored in memory.
get_rs_envs	Gets the list of restricted environments that are defined within the currently selected zone.
get_rse_ cmds	Gets a Tcl list of restricted shell commands associated with the currently selected restricted shell environment.
get_rse_field	Gets the value for a specified field from the restricted shell environment stored that is stored in memory.
list_rs_envs	Prints a list of restricted shell environments defined for the currently selected zone to stdout.
new_rs_env	Creates a new restricted shell environment for the current zone, stores it in memory, and sets it to be the currently selected restricted shell environment.
save_rs_env	Saves the currently selected restricted environment that is stored in memory to Active Directory.
select_rs_ env	Retrieves a restricted shell environment for the currently selected zone from Active Directory, stores it in memory, and sets it to be the currently selected restricted shell environment for other ADEdit commands.
set_rs_env_ for_role	Assigns a restricted shell environment to the currently selected role that is stored in memory.
set_rse_field	Sets the value for a specified field in the currently selected restricted shell environment stored in memory.

Using restricted commands

The following ADEdit commands are used to set up and manage the restricted shell restricted shell commands.

Command	What it does
delete_rs_ command	Deletes the currently selected restricted shell command from Active Directory and from memory.
get_role_rs_ commands	Returns a Tcl list of restricted shell commands associated with the currently selected role.
get_rs_ commands	Checks Active Directory and returns a Tcl list of restricted shell commands defined for the currently selected zone.
get_rsc_field	Gets the value for a specified field from the currently selected restricted shell command that is stored in memory.
list_rs_ commands	Prints a list of restricted shell commands defined for the currently selected zone to stdout.
new_rs_ command	Creates a new restricted shell command under the currently selected restricted shell environment, stores it in memory, and sets it to be the currently selected restricted shell command.
save_rs_ command	Saves the currently selected restricted shell command that is stored in memory to Active Directory.
select_rs_ command	Retrieves a restricted shell command in the currently selected zone from Active Directory, stores it in memory, and sets it to be the currently selected restricted shell command for other ADEdit commands.
set_rsc_field	Sets the value for a specified field for the currently selected restricted shell command that is stored in memory.

Creating computer-level role assignments in classic zones

Classic zones support computer-level role assignments. If you want to configure computerlevel role assignments, keep the following in mind:

- The classic zone that the computer is a member of must have authorization enabled before you can create role definitions and role assignments.
- The role assignment is only valid on the computer where you have made the assignment.
- The role definition you use must be defined in the classic zone that the computer is a member of.

A computer-level role assignment in a classic zone is similar to computer-level overrides in hierarchical zones, except that you cannot save user or group profile information for individual computers. User and group information is stored in the classic zone. To enable computer-specific role assignments in classic zones, you must use a specialized zone type, the classic-computer zone type.

To create a computer-level role assignment in a classic zone:

- 1. Precreate the computer in a classic4 zone, if it doesn't already exist.
- 2. Create a zone that uses the specialized zone type of classic-computer.
- 3. Select the classic-computer zone within the classic zone.
- 4. Create the role assignment.

The following code snippet illustrates the commands to execute in ADEdit to make computer-specific role assignments in classic zones:

```
bind ajuba.net
package require ade_lib
    1.0
select_zone cn=cls,cn=zones,dc=ajuba,dc=net
get_zone_field type
    classic4
precreate_computer rhelqa$@ajuba.net
get_zone_computers
    {comp5$@ajuba.net} {rhelqa$@ajuba.net}
create_zone classic-computer rhelqa.ajuba.net@cn=cls,cn=zones,dc=ajuba,dc=net
select_zone rhelqa.ajuba.net@cn=cls,cn=zones,dc=ajuba,dc=net
new_role_assignment user5@ajuba.net
set_role_assignment_field role role1/cls
save_role_assignment
```

You can then get the classic-computer zones by running the get_child_zones command when the classic zone is selected. For example:

```
select_zone cn=cls,cn=zones,dc=ajuba,dc=net
get_child_zones
helqa.ajuba.net@CN=c122,CN=Zones,DC=ajuba,DC=net
comp5.ajuba.net@CN=c122,CN=Zones,DC=ajuba,DC=net
```

Quick reference for commands and library procedures

The following table lists the ADEdit and ade_lib commands in alphabetical order. The table summarizes the command syntax for each command with optional elements in [square brackets] and variables in italics. For more detailed information about any command, see the previous sections **ADEdit command reference** or **ADEdit Tcl Procedure Library Reference**.

Command syntax	Abbreviation	ade_lib
add_command_to_role command[/ zonename]	acr	
add_map_entry key value	ame	
add_map_entry_with_comment key value comment	amewc	
add_object_value dn field value	aov	
add_pamapp_to_role app[/zonename]	apr	

Command syntax	Abbreviation	ade_lib
add_sd_ace sddl_string ace_string	ase	
add_user_to_group user group		X
bind [-gc] [-write] [-machine] [server@]domain [user [password]]		
clear_rs_env_from_role	crse	
convert_msdate msdate		X
create_adgroup dn sam gtype		X
create_aduser dn upn sam pw		X
create_assignment upn role [/zonename] [from] [to] [description]		X
create_computer_role computer_role_path group_upn	ccr	
create_dz_command name command description form dzdo_runas dzsh_runas flags pri umask path		X
create_group upn name gid		X
create_nismap map key:value comment		X
create_pam_app name application description		X
create_role name description sysrights pamrights cmdrights allowlocal rsenv visible		X
create_rs_command rsc_name cmd description form dzsh_runas flags pri umask path		X
create_rs_env rse_name rse_description		X
create_user ad uname uid gid gecos home shell role		X
create_zone [-ou] zone_type path [schema_type]	CZ	
decode_timebox strTimeBox		X
delegate_zone_right right principal_upn		
delete_dz_command	dldzc	
delete_local_group_profile group_name	dllgp	

Command syntax	Abbreviation	ade_lib
delete_local_user_profile user_name	dllup	
delete_map_entry key:index	dlme	
delete_nis_map	dlnm	
delete_object	dlo	
delete_pam_app	dlpam	
delete_role	dlr	
delete_role_assignment	dlra	
delete_rs_command	dlrsc	
delete_rs_env	dlrse	
delete_sub_tree dn		
delete_zone	dlz	
delete_zone_computer	dlzc	
delete_zone_group	dlzg	
delete_zone_user	dlzu	
dn_from_domain_name	dnfd	
dn_to_principal [-upn] principal_dn	dntp	
domain_from_dn domain_name	dfdn	
encode_timebox strTimeBox		X
explain_groupType gt		X
explain_ptype pt		X
explain_sd sddl_string		
explain_trustAttributes ta		X
explain_trustDirection td		X

Command syntax	Abbreviation	ade_lib
explain_userAccountControl uac		Х
get_adinfo domain zone host	adinfo	
get_all_zone_users [-upn] zone_DN		X
get_bind_info domain forest server sid domain_level forest_level	gbi	
get_child_zones [-tree] [-crole] [-computer]	gcz	
get_dz_commands	gdzc	
get_dzc_field field	gdzcf	
get_effective_groups [-hostname computer_name]		X
get_effective_users [-hostname computer_name]		X
get_group_members [-ad -upn] group_UPN	ggm	
get_local_group_profile_field field_name	glgpf	
get_local_groups_profile	glgp	
get_local_user_profile_field field_name	glupf	
get_local_users_profile	glup	
get_nis_map	gnm	
get_nis_map_field field	gnmf	
get_nis_map_with_comment	gnmwc	
get_nis_maps	gnms	
get_object_field field	gof	
get_object_field_names	gofn	
get_objects [-gc] [-depth one sub] [-limit limit] [-f forest] base filter	go	
get_pam_apps	gpam	
get_pam_field	gpf	

Command syntax	Abbreviation	ade_lib
get_parent_dn DN	gpd	
get_pending_zone_groups	gpzg	
get_pending_zone_users	gpzu	
get_pwnam unix_name	gpn	
get_rdn DN	grdn	
get_role_apps	grap	
get_role_assignment_field field	graf	
get_role_assignments [-upn]	gra	
get_role_commands	grc	
get_role_field field	grf	
get_role_rs_commands	grrsc	
get_role_rs_env	grrse	
get_roles	getr	
get_rs_commands	grsc	
get_rs_envs	grse	
get_rsc_field field	grscf	
get_rse_cmds	grsec	
get_rse_field field	grsef	
get_effective_groups [-dn] [-z] user_DN user_UPN		X
get_user_role_assignments [-visible] [-hostname hostname] user_DN		X
get_schema_guid schema_name	gsg	
get_zone_computer_field field	gzcf	
get_zone_computers	gzc	

Command syntax	Abbreviation	ade_lib
get_zone_field field	gzf	
get_zone_group_field field	gzgf	
get_zone_groups	gzg	
get_zone_nss_vars	gznv	
get_zone_user_field field	gzuf	
get_zone_users [-upn]	gzu	
get_zones domain	gz	
getent_passwd	gep	
guid_to_id guid		
help command_pattern	h	
is_dz_enabled	idze	
joined_get_user_membership user_UPN	jgum	
joined_name_to_principal [-upn] UNIX_name	jntp	
joined_user_in_group user_UPN group_UPN	jug	
list_dz_commands	Isdzc	
list_local_groups_profile	Islgp	
list_local_users_profile	Islup	
list_nis_map	Isnm	
list_nis_map_with_comment	Isnmwc	
list_nis_maps	Isnms	
list_pam_apps	Ispa	
list_pending_zone_groups	lpzg	
list_pending_zone_users	lpzu	

Command syntax	Abbreviation	ade_lib
list_role_assignments [-upn] [-visible] [-user -group -invalid]	Isra	
list_role_rights	Isrr	
list_roles	Isr	
list_rs_commands	Isrsc	
list_rs_envs	Isrse	
list_zone_computers	Iszc	
list_zone_groups	Iszg	
list_zone_users [-upn]	Iszu	
list_zones domain		X
Imerge [list] [list] [list]		X
manage_dz -on -off	mnz	
modify_timebox strTimeBox day hour avail		X
move_object destinationDN	mvo	
new_dz_command name	newdzc	
new_local_group_profile group_name	newlgp	
new_local_user_profile user_name	newlup	
new_nis_map [-automount] map	newnm	
new_object dn	newo	
new_pam_app name	newpam	
new_role name	newr	
new_role_assignment upn	newra	
new_rs_command name	newrsc	
new_rs_env name	newrse	

Command syntax	Abbreviation	ade_lib
new_zone_computer sAMAccountName@domain	newzc	
new_zone_group AD_group_UPN	newzg	
new_zone_user AD_user_UPN	newzu	
рор		
precreate_computer AMAccount@domain [-ad] [-scp] [-czone] [-all] [container rdn] [-dnsname dnsname] [-trustee upn [-trustee upn]] [-nogc] [stype spn [-stype spn]]		X
principal_from_sid [-upn] sid	pfs	
principal_to_dn principal_upn	ptd	
principal_to_id [-apple] upn	pti	
push		
quit	q	
remove_command_from_role command[/zonename]	rcfr	
remove_object_value dn field value	rov	
remove_pamapp_from_role app[/zonename]	rpamfr	
remove_sd_ace sddl_string ace_string	rsa	
remove_user_from_group user group		X
rename_object name	rno	
save_dz_command	svdzc	
save_local_group_profile	svlgp	
save_local_user_profile	svlup	
save_nis_map	svnm	
save_object	svo	
save_pam_app	svpam	

Command syntax	Abbreviation	ade_lib
save_role	svr	
save_role_assignment	svra	
save_rs_command	svrsc	
save_rs_env	svrse	
save_zone	SVZ	
save_zone_computer	SVZC	
save_zone_group	svzg	
save_zone_user	svzu	
select_dz_command command	sldzc	
select_local_group_profile roup_name	sllgp	
select_local_user_profile user_name	sllup	
select_nis_map map	slnm	
select_object [-rootside] [-attrs a1[,a2,]] dn	slo	
select_pam_app name	slpam	
select_role role	slr	
select_role_assignment principal/role [/zone]	slra	
select_rs_command rs_cmd	slrsc	
select_rs_env rse	slrse	
select_zone path	slz	
select_zone_computer sAMAccountName@domain	slzc	
select_zone_group D_group_UPN	slzg	
select_zone_user user	slzu	
set_change_pwd_allowed userdn		

Command syntax	Abbreviation	ade_lib
set_change_pwd_denied userdn		
set_dzc_field field value	sdzcf	
set_ldap_timeout_in_seconds		
set_local_group_profile_field field_name value	slgpf	
set_local_user_profile_field field_name value	slupf	
set_object_field field value	sof	
set_pam_field field value	spf	
set_role_assignment_field field value	sraf	
set_role_field field value	srf	
set_rs_env_for_role environment	srse	
set_rsc_field field value	srscf	
set_rse_field field value	srsef	
set_sd_owner sddl_string owner_sid	SSO	
set_user_password principal_UPN password	sup	
set_zone_computer_field field value	szcf	
set_zone_field field value	szf	
set_zone_group_field field value	szgf	
set_zone_user_field field value	szuf	
show [all bind zone user computer assignment object group pamright dzcommand nismap role license rse rs_command]		
sid_to_escaped_string sid	stes	
sid_to_uid sid	stu	
validate_license path	vl	