

Centrify Zero Trust Privilege Services: Authentication Service, Privilege Elevation Service, and Audit and Monitoring Service

Database Management Guide

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Centrify Corporation





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About this guide

This *Database Management Guide* provides complete information for planning, installing, and maintaining Microsoft SQL Server databases required for the auditing features available in Centrify Authentication Service, Privilege Elevation Service, and Audit & Monitoring Service. This software helps you comply with regulatory requirements and improve accountability by collecting detailed information about user activity on Linux, UNIX, and Windows computers. Auditing also enables you to monitor user activity for immediate analysis or to investigate specific incidents, such as application failures or security breaches.

Intended audience

This guide is intended for database administrators who are responsible for preparing and maintaining the databases required to store audit-related information. If you are a Centrify administrator, but not a Microsoft SQL Server administrator, you should review the information in this guide with your Microsoft SQL Server system administrator.

If you have an account that has been assigned the Microsoft SQL Server system administrator role, but you are new to Microsoft SQL Server, you should use this guide in conjunction with documentation provided by Microsoft for the version of SQL Server you are using.

Using this guide

This guide does not provided detailed instructions for configuring or managing Microsoft SQL Server. In addition, different versions of Microsoft SQL Server might operate differently than described in this guide. Every attempt has been made to give accurate, representative steps to guide you. However, you might find discrepancies between the steps in this guide and what you see in your own environment.



Documentation conventions

The following conventions are used in Centrifly documentation:

- Fixed-width font is used for sample code, program names, program output, file names, and commands that you type at the command line. When *italicized*, this font indicates variables. Square brackets ([]) indicate optional command-line arguments.
- **Bold** text is used to emphasize commands or key command results; buttons or user interface text; and new terms.
- *Italics* are used for book titles and to emphasize specific words or terms. In fixed-width font, italics indicate variable values.
- Standalone software packages include version and architecture information in the file name. Full file names are not documented in this guide. For complete file names for the software packages you want to install, see the distribution media.
- For simplicity, UNIX is used to refer to all supported versions of the UNIX and Linux operating systems. Some parameters can also be used on Mac OS X computers.

Finding more information about Centrifly products

Centrifly provides extensive documentation targeted for specific audiences, functional roles, or topics of interest. If you want to learn more about Centrifly and Centrifly products and features, start by visiting the [Centrifly website](#). From the Centrifly website, you can download data sheets and evaluation software, view video demonstrations and technical presentations about Centrifly products, and get the latest news about upcoming events and webinars.

For access to documentation for all Centrifly products and services, visit the [Centrifly documentation portal](#) at docs.centrifly.com. From the Centrifly documentation portal, you can always view or download the most up-to-date version of this guide and all other product documentation.

For details about supported platforms, please consult the release notes.

For the most up to date list of known issues, please login to the Customer Support Portal at <http://www.centrifly.com/support> and refer to Knowledge Base articles for any known issues with the release.



Product names

Over the years we've made some changes to some of our product offerings and features and some of these previous product names still exist in some areas. Our current product offerings include the following services:

Current Overall Product Name	Current Services Available
Centrify Zero Trust Privilege Services	Privileged Access Service
	Gateway Session Audit and Monitoring
	Authentication Service
	Privilege Elevation Service
	Audit and Monitoring Service
	Privilege Threat Analytics Service

Whether you're a long-time or new customer, here are some quick summaries of which features belong to which current product offerings:

Previous Product Offering	Previous Product Offering	Description	Current Product Offering
	Centrify Privileged Service (CPS)		Privileged Access Service
DirectControl (DC)			Authentication Service
DirectAuthorize (DZ or DZwin)			Privilege Elevation Service
DirectAudit (DA)			Audit and Monitoring Service
	Infrastructure Services		Privileged Access Service, Authentication Service, Privilege Elevation Service, Audit and Monitoring Service, and Privilege Threat Analytics Service
DirectManage (DM)	Management Services	Consoles that are used by all 3 services: Authentication Service, Privilege Elevation Service, and Audit and Monitoring Service	



Previous Product Offering	Previous Product Offering	Description	Current Product Offering
DirectSecure (DS)	Isolation and Encryption Service		Still supported but no longer being developed or updated
	User Analytics Service		Privilege Threat Analytics Service

Depending on when you purchased a Centrify product offering, you may have purchased one of the following product bundles:

Previous Product Bundle	Previous Product Bundle	Current Product Bundle	Services Included	Description
		Centrify Zero Trust Privilege Services Core Edition	Privileged Access Service and Gateway Session Audit and Monitoring	
Centrify Server Suite Standard Edition	Centrify Infrastructure Services Standard Edition	Centrify Zero Trust Privilege Services Standard Edition	Privileged Access Service, Authentication Service, and Privilege Elevation Service	
Centrify Server Suite Enterprise Edition	Centrify Infrastructure Services Enterprise Edition	Centrify Zero Trust Privilege Services Enterprise Edition	Privileged Access Service, Authentication Service, Privilege Elevation Service, Audit and Monitoring Service (includes Gateway Session Audit and Monitoring)	
Centrify Server Suite Platinum Edition				Discontinued bundle that included DirectControl, DirectAuthorize, DirectManage, DirectAudit, and DirectSecure



Contacting Centrifly

You can contact Centrifly by visiting our website, www.centrifly.com. On the website, you can find information about Centrifly office locations worldwide, email and phone numbers for contacting Centrifly sales, and links for following Centrifly on social media. If you have questions or comments, we look forward to hearing from you.

Getting additional support

If you have a Centrifly account, click Support on the Centrifly website to log on and access the [Centrifly Technical Support Portal](#). From the support portal, you can search knowledge base articles, open and view support cases, download software, and access other resources.

To connect with other Centrifly users, ask questions, or share information, visit the [Centrifly Community](#) website to check in on customer forums, read the latest blog posts, view how-to videos, or exchange ideas with members of the community.



Introduction to the databases used for auditing

Centrify Authentication Service, Privilege Elevation Service, and Audit & Monitoring Service provides an auditing infrastructure that enables your organization to capture and store session activity on audited computers. The auditing infrastructure also enables auditors to query and report on specific events, view all or selected session activity, change the status of reviewed sessions, and delete sessions that are no longer needed. The auditing infrastructure relies on two types of databases to store information: the **management database** and the **audit store database**.

If you are not familiar with the components and architecture of the auditing infrastructure, see the *Auditing Administrator's Guide*. That guide provides detailed information about how the components in the auditing infrastructure communicate with each other and how to configure and manage an audit installation.

Management databases store installation information

In most organizations, there is only one management database for each audit installation and it stores information about the components of the auditing infrastructure for that installation. For example, the management database stores information about which computers are audited, where the collector service is installed, and the scope (site or subnet) of each audit store.

In most cases, you create the management database when you create a new installation and update it whenever you add components to the auditing



infrastructure. For example, if you enable auditing on additional computers or deploy the collector service on a new server, the change is recorded in the management database. Because the management database stores information about the auditing infrastructure and not audited sessions, it requires little to no maintenance over time.

Audit store databases store audited sessions

Like the management database, you create the first audit store database during deployment. However, unlike the management database, the audit store database stores the activity collected from audited computers. Over time, the audit store database would grow and become unmanageable. Therefore, most organizations periodically add a new audit store database to capture current activity. When the new audit store database becomes active, the previous audit store database can remain “attached” to provide access to stored information or be “detached” if access to the information stored in that database is no longer required.

The process of adding a new audit store database and changing the status of an existing audit store database from “active” to “attached” is called database rotation. Database rotation is the primary on-going administrative task to manage the auditing of user activity using Centrify software. There are, however, also steps to take during the planning phase and during deployment that apply specifically to preparing Microsoft SQL Server to support the auditing infrastructure.

The audit store database stores all of the activity collected on audited computers. When auditors or administrators want to review captured activity, they must be able to connect to the audit store database to retrieve it. Therefore, the audit store database must be accessible and the auditors and administrators who need to retrieve data from it must have the appropriate permissions to connect to the database instance, and to read and write data where applicable.

Using multiple databases for the audit store

Depending on the number of computers you are auditing, the level of detail you capture, and the length of time captured activity must be available for review, an audit store database can grow too large to manage effectively in a short period of time.



To prevent the audit store database from growing too large, you can split it into multiple databases. Only one database at a time can be the active—that is, the database currently receiving captured activity from an audited computer and its collector service.

However, because large databases are harder to manage and take longer to search than smaller ones and you cannot allow a single active database to grow indefinitely, you can change the active database to be an attached database—that is, available for searching and retrieving stored information but no longer receiving captured activity—and make a new database the currently active database.

Changing which database is active without interrupting the monitoring of audited computers is also referred to as *rolling* or *rotating* the database. By adding new databases and changing the audit store's active database to an attached database before it gets too large, you can optimize database performance and storage requirements.

Detaching and retiring audit store databases

All of the information stored in audit store databases that are attached to an audit installation is available for queries and reports and can be viewed in the session player. When the information in an attached database is no longer needed, you can detach the database from the installation. You cannot detach a database while it is the active database.

After a database that has been the active database is made an attached or detached database, it is considered a retired or decommissioned database. It cannot be used as the active database again.

Automating database rotation

Although you can do database rotation manually using Audit Manager, you might want to automate the process to perform it automatically on a regular schedule. You might also want to automate and schedule the detachment of old databases from the audit store. The API described in the reference enables you to write scripts to perform database rotation and attach or detach databases.



The software development kit (SDK) for auditing includes four sample scripts that you can modify to suit your purposes: two VBScript samples and two Power Shell samples. One pair of sample scripts (`db_rotation`) use default database settings. The second pair (`db_rotation_sql_script`) let you customize the database scripts to set up the database and the server.

The sample scripts perform the following steps:

1. Create a new audit store database and attach it to an audit store.
2. Grant permission to the management database and collectors to access the newly created audit store database.
3. Make the newly created audit store database the active database.
4. Detach any audit store databases older than two years.
5. Publish the settings to Active Directory so that audited computers and collectors can look up the information.

Note that the sample scripts require the user to respond to informational messages at various points during execution. To make these scripts run without user interaction, remove or comment out all the `wscript.echo` commands in the script, or redirect the echo commands to `STDOUT` so that the scheduled task will not hang waiting for user input.

The following command adds the script `db_rotation.vbs` as a monthly scheduled task named `rolldb` to be run as user `domain_name\administrator`. By using `cscript.exe` to launch the script, it redirects output to `STDOUT`.

```
PS C:\Program Files\Centrify\Audit\SDK\Samples> schtasks.exe /Create /TN
"rolldb" /TR "cscript.exe
'C:\Program Files\Centrify\Audit\SDK\Samples\db_rotation.vbs'
DefaultInstallation DefaultAuditStore
sqlserver.domain_name.com substest3" /RU domain_name\administrator /SC
Monthly /MO 1
```

The components of this command are as follows:

```
schtasks.exe /Create /TN <Task_name> /TR <Task_Command> /RU <Run_As_User>
/SC <Reoccurrence_rate>
/MO <Reoccurrence_increment>
```

where

- *Task_Name*: `rolldb`
- *Task_Command*: `cscript.exe 'C:\Program Files\Centrify\Audit\SDK\Samples\db_rotation.vbs' DefaultInstallation DefaultAuditStore sqlserver.domain_name.com substest3`
- *Run_as_user*: `domain_name\Administrator`



- *Reoccurrence_rate*: Monthly
- *Reoccurrence_increment*:1

The task command consists of the following elements:

```
<parser> '<install_path>\<VBS_script>' <Installation> <auditstore> <DB_Server> <DB_prefix>
```

where

- *parser*: cscript.exe
- *install_path*: C:\Program Files\Centrify\Audit\SDK\Samples
- *VBS_script*: db_rotation.vbs
- *Installation*: DefaultInstallation
- *auditstore*: DefaultAuditStore
- *DB_Server*: sqlserver.domain_name.com
- *DB_prefix*: subtest3

The prefix is attached to a date stamp in the name of the newly created audit store database.



Audit-related object reference

This chapter describes the classes, methods, and properties in the Centrify software development kit for auditing. The following classes are used for managing auditing features and are defined in the `Centrify.DirectAudit.API` namespace:

Class	Description
<code>Account class</code>	Manages Account objects.
<code>Accounts class</code>	Enumerates Account objects.
<code>AuditServer class</code>	Manages AuditServer objects.
<code>AuditServers class</code>	Enumerates AuditServer objects.
<code>AuditStore class</code>	Manages AuditStore objects.
<code>AuditStoreDatabase class</code>	Manages AuditStoreDatabase objects.
<code>AuditStoreDatabases class</code>	Enumerates AuditStoreDatabase objects.
<code>Connection class</code>	Manages an auditing connection.
<code>Installation class</code>	Manages Installation objects.



Account class

Manages Account objects.

Syntax

```
class Account
```

Properties of the Account class

The Account class provides the following properties:

Property	Description
<code>IsSystemAccount</code> property	Gets a value indicating whether the account is a Windows system account.
<code>IsWindowsAccount</code> property	Gets a value indicating whether the account is a Windows domain account.
<code>UserName</code> property	Gets the user name of the account.

Description of the Account class

The accounts used for auditing include the management database account, audit store database account, and collector accounts. This class provides properties to retrieve information about an account.

See also

- [Accounts class](#)
- [OutgoingAccount](#) property
- [AuditServerAccounts](#) property
- [CollectorAccounts](#) property



IsSystemAccount property

Gets a value indicating whether the account is a Windows system account.

Syntax

```
bool IsSystemAccount{get;}
```

Return value

Returns true if the account is a Windows system account; otherwise, false.

Discussion of the IsSystemAccount property

When you attach a new database to the audit store, you must set the database to allow access by the management database account. Before you call the `AddAuditServerAccount` method, you should check to see if the management database account is a Windows system account because if it is, the `Account.UserName` property is not a Windows domain account name and therefore cannot be passed directly to the `AddAuditServerAccount` method.

Example

The following code sample first checks to make sure the management database account is not a system account. If it is not a system account, the sample calls the `AddAuditServerAccount` method. If the management database is a system account, the sample returns an error message.

```
...  
' Grant permission to management database to access the audit store  
database  
SET objAuditServers = objInstallation.AuditServers  
FOR EACH objAuditServer IN objAuditServers  
    SET objAuditServerAccount = objAuditServer.OutgoingAccount  
    IF NOT objAuditServerAccount.IsSystemAccount THEN  
        objAuditStoreDatabase.AddAuditServerAccount  
objAuditServerAccount.UserName, & _  
        objAuditServerAccount.IsWindowsAccount  
        wscript.echo "Added management database account '" &  
objAuditServerAccount.UserName & "'."  
    ELSE  
        wscript.echo "Cannot add account for management database '" &  
objAuditServer.Name & _  
        & "' because the account '" & objAuditServerAccount.UserName & _  
        & "' is a system account."  
        wscript.echo "NOTE: Please add allowed incoming management
```

• • • • •

```
database for ''' & _  
    & objAuditServer.Name & _  
    & ''' to the new audit store database in Audit Manager."  
END IF
```

See also

- [IsWindowsAccount](#) property
- [AddAuditServerAccount](#) method



IsWindowsAccount property

Gets a value indicating whether the account is a Windows domain account.

Syntax

```
bool IsWindowsAccount {get;}
```

Return value

Returns `true` if the account is a Windows domain account; `false` if the account is an SQL Server login account.

Discussion

The management database-to-audit store database connection and the collector-to-audit store connection can use either Windows authentication or SQL Server authentication.

Example

The following code sample illustrates using this property as an input parameter to the `AddAuditServerAccount` method:

```
...  
'Add management database accounts for those management databases running  
in  
' system account; e.g. NT Authority/Network Service  
,  
DIM strAuditServerAccount  
DIM isAuditServerWindowsAccount  
isAuditServerWindowsAccount = true  
strAuditServerAccount = "DOMAIN\MACHINE$"  
objAuditStoreDatabase.AddAuditServerAccount strAuditServerAccount, & _  
    isAuditServerWindowsAccount  
wscript.echo "Added management database account '" &  
strAuditServerAccount & "'."
```

See also

- [AddAuditServerAccount method](#)
- [AddCollectorAccount method](#)



UserName property

Gets the user name of the account.

Syntax

```
string UserName {get;}
```

Return value

Returns the user name of the account.

Discussion

If the account is a Windows account, the user name is the Windows domain account name. If the account is an SQL Server login account, the user name is the SQL Server account name.

Example

The following code sample illustrates using this property as an input parameter to the `AddCollectorAccount` method:

```
...  
' Copy Collector accounts from current active audit store database  
  SET objCollectorAccounts = objActiveDatabase.CollectorAccounts  
  FOR EACH objCollectorAccount IN objCollectorAccounts  
    objAuditStoreDatabase.AddCollectorAccount  
objCollectorAccount.UserName  
    wscript.echo "Added Collector account '" &  
objCollectorAccount.UserName & "'."
```



Accounts class

Enumerates Account objects.

Syntax

```
class Accounts
```

Discussion

The accounts used for auditing include the management database account, the audit store database account, and collector accounts. Use this class to enumerate a set of accounts.

Example

In the following code sample, the `CollectorAccounts` property returns an Accounts object and a FOR EACH-IN statement is used to enumerate the collector accounts:

```
...  
' Copy Collector accounts from current active audit store database  
  SET objCollectorAccounts = objActiveDatabase.CollectorAccounts  
  FOR EACH objCollectorAccount IN objCollectorAccounts  
    objAuditStoreDatabase.AddCollectorAccount  
objCollectorAccount.UserName  
  wscript.echo "Added Collector account '" &  
objCollectorAccount.UserName & "'."
```

See also

- [Account class](#)
- [AuditServerAccounts property](#)
- [CollectorAccounts property](#)



AuditServer class

Manages AuditServer objects.

Syntax

```
class AuditServer
```

Properties

The AuditServer class provides the following properties:

Property	Description
<code>DatabaseName</code> property	Gets the database name of the management database.
<code>Name</code> property (management database)	Gets the display name of the management database.
<code>OutgoingAccount</code> property	Gets the outgoing account of the management database.
<code>ServerName</code> property	Gets the Microsoft SQL Server instance name of the management database.

Discussion

An AuditServer object holds information about an management database that is part of the audit installation. The management database stores license information, audit roles, and information about the components of the auditing infrastructure, including the scope of each audit store and the active and attached audit store databases.

See also

- [AuditServers class](#)



DatabaseName property

Gets the database name of the management database.

Syntax

```
string DatabaseName {get;}
```

Return value

Returns the database name of the management database.

Discussion

The management database stores license information, audit roles, and information about the components of the auditing infrastructure, including the scope of each audit store and the active and attached audit store databases.

See also

- [Name property \(management database\)](#)
- [ServerName property](#)
- [AuditStoreDatabase class](#)



Name property (management database)

Gets the display name of the management database.

Syntax

```
string Name {get;}
```

Return value

Returns the display name of the management database.

Discussion

The management database display name is used in the Audit Manager console and must be unique in the installation. Note that this is not the management database instance name, which is the fully-qualified domain name of the management database, and is not necessarily the same as the management database name, which need not be unique in the installation.

See also

- [DatabaseName](#) property
- [ServerName](#) property



OutgoingAccount property

Gets the outgoing account of the management database.

Syntax

```
Account class OutgoingAccount {get;}
```

Return value

Returns the outgoing account of the management database.

Discussion

The user name of the outgoing account is the name by which the management database identifies itself when connecting to an audit store.



ServerName property

Gets the Microsoft SQL Server instance name of the management database.

Syntax

```
string ServerName {get;}
```

Return value

Returns the Microsoft SQL Server instance name of the management database.

Discussion

The Microsoft SQL Server instance name is the fully qualified domain name of the management database.

See also

- [DatabaseName property](#)
- [Name property \(management database\)](#)



AuditServers class

Enumerates AuditServer objects.

Syntax

```
class AuditServers
```

Discussion

In most cases, an audit installation includes only one management database.

See also

- [AuditServer class](#)



AuditStore class

Manages AuditStore objects.

Syntax

```
class AuditStore
```

Properties

The AuditStore class provides the following properties:

Property	Description
<code>ActiveDatabase</code> property	Gets the active audit store database.
<code>Databases</code> property	Gets the list of the audit store databases.
<code>Name</code> property (audit store)	Gets the display name of the audit store.

Methods

The AuditStore class provides the following methods:

Method	Description
<code>AddDatabase</code> method	Creates a new audit store database and attaches the database to the audit store using default settings.
<code>AddDatabaseByScript</code> method	Creates a new audit store database and attaches the database to the audit store using custom settings specified in SQL scripts.
<code>AttachDatabase</code> method	Attaches an existing audit store database to the audit store.
<code>ChangeActiveDatabase</code> method	Changes which database is currently active in the audit store.
<code>DetachDatabase</code> method	Detaches a database from the audit store.
<code>GetDatabase</code> method	Retrieves the audit store database object given the database display name.



Discussion

An audit store can have multiple databases attached, but only one can be active at a time. This class allows you to manage the audit store, including attaching and detaching databases and specifying which database is active. To get information about the attached databases, use the [AuditStoreDatabase class](#) and the [AuditStoreDatabases class](#).

See also

- [AuditStoreDatabase class](#)



ActiveDatabase property

Gets the active audit store database.

Syntax

```
AuditStoreDatabase class ActiveDatabase {get;}
```

Return value

Returns the active audit store database.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time.

See also

- [Databases property](#)



Databases property

Gets the list of the audit store databases.

Syntax

```
AuditStoreDatabases class Databases {get;}
```

Return value

Returns the list of the audit store databases.

Discussion

This property returns a list of all the databases attached to the audit store.

See also

- [ActiveDatabase property](#)



Name property (audit store)

Gets the display name of the audit store.

Syntax

```
string Name {get;}
```

Return value

Returns the display name of the audit store.

Discussion

The display name of the audit store is used in the Audit Manager console. It is distinct from the display name of the active database.

See also

- [Name property \(audit store database\)](#)



AddDatabase method

Creates a new audit store database and attaches the database to the audit store using default settings.

Syntax

```
AuditStoreDatabase class AddDatabase(  
    string name,  
    string serverName,  
    string database  
)
```

Parameters

Return value

Returns the `AuditStoreDatabase` object of the new audit store database.

Errors

The `AddDatabase` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage Database permission on the audit store or you do not have the SQL Server permission to create SQL Server databases on the Microsoft SQL Server instance.
- `Centrify.DirectAudit.Common.Logic.AlreadyExistsException` if the specified display name is already being used by another audit store database, or the specified database name is already being used by another database in the Microsoft SQL Server instance.



Discussion

Use this method to create a new audit store database and attach it to the audit store. To customize the database or attach an existing database to the audit store, use one of the methods listed in the “See also” section.

Example

The following code sample argument illustrates the use of `AuditStore.AddDatabase`:

```
...  
  
strInstallationName = wscript.arguments.item(0)  
strAuditStoreName = wscript.arguments.item(1)  
strServerName = wscript.arguments.item(2)  
strDatabaseName = wscript.arguments.item(3)  
  
SET objAuditStoreDatabase = objAuditStore.GetDatabase(strDatabaseName)  
  
IF NOT objAuditStoreDatabase IS NOTHING THEN  
    wscript.echo "Audit store database '" & strDatabaseName & "' already  
exists."  
    wscript.quit  
END IF  
  
' Create a new audit store database and attach to the audit store  
SET objAuditStoreDatabase = objAuditStore.AddDatabase(strDatabaseName, &  
-  
strServerName, strDatabaseName)  
  
IF objAuditStoreDatabase IS NOTHING THEN  
    wscript.echo "Failed to add audit store database '" & strDatabaseName  
& "'."  
    wscript.quit  
END IF  
wscript.echo "Created and attached audit store database '" &  
strDatabaseName & "'."
```

See also

- [AddDatabaseByScript](#) method
- [AttachDatabase](#) method
- [ChangeActiveDatabase](#) method



AddDatabaseByScript method

Creates a new audit store database and attaches the database to the audit store using custom settings specified in SQL scripts.

Syntax

```
AuditStoreDatabase class AddDatabaseByScript(  
    string name,  
    string serverName,  
    string database,  
    string scriptFile1,  
    string scriptFile2  
)
```

Parameters

Return value

Returns the `AuditStoreDatabase` object of the new audit store database.

Errors

The `AddDatabaseByScript` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage Database permission on the audit store or you do not have the SQL Server permission to create SQL Server databases on the Microsoft SQL Server instance.
- `Centrify.DirectAudit.Common.Logic.AlreadyExistsException` if the specified display name is already being used by another audit store



database, or the specified database name is already being use by another database in the Microsoft SQL Server instance.

Discussion

The database name you specify in the database parameter is substituted for the keyword #database in the SQL script. To create a new database using standard settings or to attach an existing database to the audit store, use on the methods listed in the “See also” section.

Example

The following code sample illustrates using `AuditStore.AddDatabaseByScript` in a script:

```
...  
  
' Create a new audit store database and attach to the audit store  
SET objAuditStoreDatabase = objAuditStore.AddDatabaseByScript  
(strDatabaseName, & _  
strServerName, strDatabaseName, strServerScriptFile,  
strDatabaseScriptFile)  
  
IF objAuditStoreDatabase IS NOTHING THEN  
    wscript.echo "Failed to add audit store database '" & strDatabaseName  
& "'."  
    wscript.quit  
END IF  
wscript.echo "Created and attached audit store database '" &  
strDatabaseName & "'."
```

See also

- [AddDatabase method](#)
- [AttachDatabase method](#)
- [ChangeActiveDatabase method](#)



AttachDatabase method

Attaches an existing audit store database to the audit store.

Syntax

```
AuditStoreDatabase class AttachDatabase(  
    string name,  
    string server,  
    string database  
)
```

Parameters

Return value

Returns the `AuditStoreDatabase` object of the attached audit store database.

Errors

The `AttachDatabase` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage Database permission on the audit store or you do not have the SQL Server permission to create SQL Server databases on the Microsoft SQL Server instance.
- `Centrify.DirectAudit.Common.Logic.AlreadyExistsException` if the specified display name is already being used by another audit store database, or the specified database name is already being use by another database in the Microsoft SQL Server instance.



Discussion

Use this method if you already have a database that you want to attach to the audit store. To create a new database and attach it to the audit store, use the `AddDatabase` or `AddDatabaseByScript` method instead.

Example

The following code sample illustrates using `AuditStore.AttachDatabase` in a script:

```
...  
  
' Attach an audit store database to the audit store  
SET objAuditStoreDatabase = objAuditStore.AttachDatabase(strDatabaseName,  
& _  
strServerName, strDatabaseName)  
  
IF objAuditStoreDatabase IS NOTHING THEN  
    wscript.echo "Failed to attach audit store database '" &  
strDatabaseName & "'."  
    wscript.quit  
END IF  
wscript.echo "Attached audit store database '" & strDatabaseName & "'."
```

See also

- [AddDatabase](#) method
- [AddDatabaseByScript](#) method



ChangeActiveDatabase method

Changes which database is currently active in the audit store.

Syntax

```
void ChangeActiveDatabase(  
    AuditStoreDatabase class database  
)
```

Parameters

Errors

The ChangeActiveDatabase method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage Database permission on the audit store or you do not have the SQL Server permission to create SQL Server databases on the Microsoft SQL Server instance.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time. Once you have made a database inactive by calling this method, you cannot make it active again. You cannot detach the active database.



Example

The following code sample illustrates using `AuditStore.ChangeActiveDatabase` in a script:

```
' Change active Audit Store database
objAuditStore.ChangeActiveDatabase(objAuditStoreDatabase)
wscript.echo "Changed active database to '" &
objAuditStore.ActiveDatabase.Name & "'."
```

See also

- [IsActive](#) property



DetachDatabase method

Detaches a database from the audit store.

Syntax

```
void DetachDatabase(  
AuditStoreDatabase class database  
)
```

Parameters

Errors

The DetachDatabase method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage Database permission on the audit store or you do not have the SQL Server permission to create SQL Server databases on the Microsoft SQL Server instance.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time. You cannot detach the active database.

Example

The following code sample illustrates using `AuditStore.DetachDatabase` in a script:

...

• • • • •

```
' Detach any Audit Store databases older than 2 years
FOR EACH objDatabase IN objAuditStore.Databases
  IF DateDiff("d", today, objDatabase.ActiveEndTime) > 728 THEN
    objAuditStore.DetachDatabase(objDatabase)
    wscript.echo "Detached Audit Store database '" & objDatabase.Name
& "'. "
  END IF
```



GetDatabase method

Retrieves the audit store database object given the database display name.

Syntax

```
AuditStoreDatabase class GetDatabase(  
    string displayname  
)
```

Parameters

Return value

Returns the `AuditStoreDatabase` object of the specified database.

Errors

The `GetDatabase` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance that hosts the management database or you do not have permission to connect to the Microsoft SQL Server instance of the audit store database to be created.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the instance is not running or does not allow remote connections.

Discussion

Use this method to obtain the audit store database object of any database attached to the audit store if you already have the audit store database display name.

Example

The following code sample illustrates using `AuditStore.GetDatabase` in a script:

• • • • •

...

```
today = Date
strDatabaseName = strDatabaseName & "-" & Year(today) & "-" & Month
(today) & _
& "-" & Day(today)

SET objAuditStoreDatabase = objAuditStore.GetDatabase(strDatabaseName)

IF NOT objAuditStoreDatabase IS NOTHING THEN
    wscript.echo "Audit store database '" & strDatabaseName & "' already
exists."
    wscript.quit
END IF
```



AuditStoreDatabase class

Manages AuditStoreDatabase objects.

Syntax

```
class AuditStoreDatabase
```

Properties

The AuditStoreDatabase class provides the following properties:

Property	Description
ActiveEndTime property	Gets the end time of a formerly active database.
ActiveStartTime property	Gets the start time of an active or formerly active database.
AuditServerAccounts property	Gets the list of management database accounts that are allowed to access this audit store.
CollectorAccounts property	Gets the list of collector accounts that are allowed to access this audit store.
DatabaseName property	Gets the audit store database name.
IsActive property	Indicates whether this database is the current active database in the audit store.
IsRetired property	Indicates whether this database was formerly the active database and is now retired.
Name property (audit store database)	Gets the display name of the audit store database.
ServerName property	Gets the Microsoft SQL Server instance name of the audit store database.

Methods

The AuditStoreDatabase class provides the following methods:



Method	Description
<code>AddAuditServerAccount</code> method	Adds a management database account to the list of accounts allowed to access this audit store database.
<code>AddCollectorAccount</code> method	Adds a collector account to the list of accounts allowed to access this audit store database.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time. This class provides information about any attached database. You can also add an management database or collectors to the list of accounts allowed access to an audit store database. To get information about the audit store, use the [AuditStore class](#).

See also

- [AuditStoreDatabases class](#)
- [AuditStore class](#)



ActiveEndTime property

Gets the end time of a formerly active database.

Syntax

```
DateTime ActiveEndTime {get;}
```

Return value

Returns the end time of the database's active period. If the database was never active or is currently active, the return value is `System.DateTime.MinValue` (12:00:00 AM).

See also

- [ActiveStartTime](#) property
- [IsRetired](#) property



ActiveStartTime property

Gets the start time of an active or formerly active database.

Syntax

```
DateTime ActiveStartTime {get;}
```

Return value

Returns the start time of the database's active period. If the database was never active, the return value is `System.DateTime.MinValue` (12:00:00 AM).

See also

- [ActiveEndTime property](#)
- [IsRetired property](#)



AuditServerAccounts property

Gets the list of management database accounts that are allowed to access this audit store.

Syntax

```
Accounts class AuditServerAccounts {get;}
```

Return value

Returns the list of allowed incoming management database accounts.

Discussion

Although most audit installations include only one management database, it's possible to add more.

See also

- [CollectorAccounts property](#)
- [AddAuditServerAccount method](#)



CollectorAccounts property

Gets the list of collector accounts that are allowed to access this audit store.

Syntax

```
Accounts class collectorAccounts {get;}
```

Return value

Returns the list of allowed incoming collector accounts.

See also

- [AuditServerAccounts property](#)
- [AddCollectorAccount method](#)



DatabaseName property

Gets the audit store database name.

Syntax

```
string DatabaseName {get;}
```

Return value

Returns the database name of the audit store database.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time. This property returns the database name of the database.

To get information about the active database attached to the management database, use the [AuditServer class](#).

See also

- [Name property \(audit store database\)](#)
- [ServerName property](#)
- [DatabaseName property](#)



IsActive property

Indicates whether this database is the current active database in the audit store.

Syntax

```
Bool IsActive {get;}
```

Return value

Returns `true` if the database is the current active database in the audit store; otherwise, `false`.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time.

See also

- [ChangeActiveDatabase](#) method
- [IsRetired](#) property



IsRetired property

Indicates whether this database was formerly the active database and is now retired.

Syntax

```
Bool IsRetired {get;}
```

Return value

Returns `true` if the database was formerly the active database for the audit store and is now retired; otherwise, `false`.

Discussion

An audit store can have multiple databases attached, but only one can be active at a time. Once a database has been retired, it cannot be made active again.

See also

- [ChangeActiveDatabase](#) method
- [IsActive](#) property



Name property (audit store database)

Gets the display name of the audit store database.

Syntax

```
string Name {get;}
```

Return value

The display name of the audit store database.

Discussion

The display name of the audit store database is the name used in the Audit Manager console when displaying information about the database.

Example

...

```
wscript.echo "Changed active database to '" &  
objAuditStore.ActiveDatabase.Name & "'."
```

See also

- [DatabaseName](#) property
- [ServerName](#) property



ServerName property

Gets the Microsoft SQL Server instance name of the audit store database.

Syntax

```
string ServerName {get;}
```

Return value

Returns the Microsoft SQL Server instance name of the audit store database.

Discussion

The SQL Server instance name of the audit store database is the fully qualified domain name of the SQL Server to which the audit store database is attached.

See also

- [DatabaseName property](#)
- [Name property \(audit store database\)](#)



AddAuditServerAccount method

Adds a management database account to the list of accounts allowed to access this audit store database.

Syntax

```
void AddAuditServerAccount(  
    string userName,  
    bool isWindowsAccount  
)
```

Parameters

Errors

The `AddAuditServerAccount` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance or the management database.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the Microsoft SQL Server instance is not running and does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage SQL Login permission on the audit store.

Discussion

When you attach a new database to the audit store, you must set the database to allow access by the management database account. If the management database account is a Windows system account, you must explicitly specify the Windows domain account name in the `userName` parameter. For other Windows accounts and for SQL accounts, you can pass the management database's `Account.UserName` property to this method as the user name.



Example

The following code sample first checks each account to see if it's a Windows system account. If the installation does not use a system account, the code passes the `Account.UserName` property to the `AddAuditServerAccount` method as the user name. If the installation uses a system account, it passes the Windows domain account name instead.

...

```
' Grant permission to management database to access the audit store
database

SET objAuditServers = objInstallation.AuditServers
FOR EACH objAuditServer IN objAuditServers
SET objAuditServerAccount = objAuditServer.OutgoingAccount
IF NOT objAuditServerAccount.IsSystemAccount THEN
    objAuditStoreDatabase.AddAuditServerAccount & _
        objAuditServerAccount.UserName, & _
        objAuditServerAccount.IsWindowsAccount
        wscript.echo "Added management database account '" &
objAuditServerAccount.UserName & "'."
    ELSE
'Add management database accounts for those management databases running
in
' system account; e.g. NT Authority/Network Service
'
DIM strAuditServerAccount
DIM isAuditServerWindowsAccount
isAuditServerWindowsAccount = true
strAuditServerAccount = "DOMAIN\MACHINE$"
objAuditStoreDatabase.AddAuditServerAccount strAuditServerAccount, & _
    isAuditServerWindowsAccount
wscript.echo "Added management database account '" &
strAuditServerAccount & "'."
END IF
```



NEXT

See also

- [AddCollectorAccount](#) method
- [AuditServerAccounts](#) property
- [IsSystemAccount](#) property
- [IsWindowsAccount](#) property
- [UserName](#) property



AddCollectorAccount method

Adds a collector account to the list of accounts allowed to access this audit store database.

Syntax

```
void AddCollectorAccount(  
    string userName,  
)
```

Parameters

Errors

The `AddCollectorAccount` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance or the management database.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the Microsoft SQL Server instance is not running and does not allow remote connections.
- `Centrify.DirectAudit.Common.Logic.UnauthorizedException` if you do not have the Manage SQL Login permission on the audit store.

Discussion

When you attach a new database to the audit store, you must set the database to allow access by each collector account that passes data to that audit store. You can pass the collector's `Account.UserName` property to this method as the user name.

Example

The following code sample illustrates using `AuditStoreDatabase.AddCollectorAccount` in a script:

...



```
' Copy Collector accounts from current active Audit Store database
SET objCollectorAccounts = objActiveDatabase.CollectorAccounts
FOR EACH objCollectorAccount IN objCollectorAccounts
objAuditStoreDatabase.AddCollectorAccount objCollectorAccount.UserName
wscript.echo "Added Collector account '" & objCollectorAccount.UserName &
"' ."
NEXT
```

See also

- [AddAuditServerAccount](#) method
- [CollectorAccounts](#) property



AuditStoreDatabases class

Enumerates AuditStoreDatabase objects.

Syntax

```
class AuditStoreDatabases
```

Example

In the following code sample, the `AuditStore.Databases` property returns an `AuditStoreDatabases` object and a `FOR EACH–IN` statement is used to enumerate the audit store databases:

```
...  
' Detach any Audit Store databases older than 2 years  
FOR EACH objDatabase IN objAuditStore.Databases  
    IF DateDiff("d", today, objDatabase.ActiveEndTime) > 728 THEN  
        objAuditStore.DetachDatabase(objDatabase)  
        wscript.echo "Detached Audit Store database '" & objDatabase.Name  
& "'."  
    END IF  
NEXT
```

See also

- [AuditStoreDatabase class](#)
- [AuditStore class](#)



Connection class

Manages an auditing connection.

Syntax

```
class Connection
```

Constructors

The `Connection` class provides the following overloaded constructor:

Constructor	Description
<code>Connection constructor</code>	Creates a <code>Connection</code> object.

Methods

The `Connection` class provides the following overloaded method:

Method	Description
<code>GetInstallation method</code>	Retrieves an audit installation by name or by management database connection.

Discussion

The Active Directory domain controller stores information about the audit installation, including the installation name and the management database being used by the installation. The `Connection` object provides a way to connect to an Active Directory domain controller and retrieve the installation information stored there.



See also

- [Installation class](#)



Connection constructor

Creates a `Connection` object.

Syntax

```
connection()
```

```
connection(string domainController)
```

Parameters

Specify the following parameter when needed:

Parameter	Description
<code>domainController</code>	The domain controller of the Active Directory domain to which you wish to connect in order to get information about the audit installation.

Discussion

The `Connection` object constructor is overloaded. Use the constructor without parameters to create a connection in the current domain. Use the second version of the constructor if you want to specify the Active Directory domain of the connection in order to administer an audit installation on an Active Directory domain other than the one to which your workstation is joined.



GetInstallation method

Retrieves an audit installation by name or by management database connection.

Syntax

```
Installation class GetInstallation(  
    string installationName)
```

```
Installation class GetInstallation(  
    string server,  
    string database)
```

Parameters

Return value

Returns the `Installation` object found.

Errors

The `GetInstallation` method may throw the following exception:

- `Centrify.Cfw.DirectoryServices.ServerNotOperationalException` if the domain controller is not operational. Check to make sure you entered the correct domain name when you called the constructor for the connection object.

Discussion

The `Connection.GetInstallation` method is overloaded to provide two ways to search for an installation: by the name of the installation, or by the management database that is part of the installation.

Example

The following code sample illustrates using `Connection.GetInstallation` in a script to get the `Installation` object for the audit installation in the current



Active Directory domain. The `Installation` object is then used to get the name of the object store database:

...

```
SET objInstallation = objConnection.GetInstallation(strInstallationName)
SET objAuditStore = objInstallation.GetAuditStore(strAuditStoreName)
SET objAuditStoreDatabase = objAuditStore.GetDatabase(strDatabaseName)
```

See also

- [Installation class](#)



Installation class

Manages Installation objects.

Syntax

```
class Installation
```

Properties

The Installation class provides the following properties:

Property	Description
<code>AuditServers</code> property	Gets the list of management databases in this installation.
<code>CurrentAuditServer</code> property	Gets the currently connected management database.
<code>Name</code> property (audit installation)	Gets the name of the audit installation.

Methods

The Installation class provides the following methods:

Method	Description
<code>GetAuditStore</code> method	Retrieves an audit store given its display name.
<code>Publish</code> method	Publishes installation information to Active Directory.

Discussion

An Installation object holds information about a specific audit installation. This class lets you retrieve information about an installation and publish changed information to the Active Directory domain controller so that it can be retrieved by the components of the installation.

• • • • •

See also

- [GetInstallation method](#)

AuditServers property

Gets the list of management databases in this installation.

Syntax

```
AuditServers class AuditServers {get;}
```

Return value

Returns the list of management databases in the installation.

Discussion

In most cases, an installation includes only one management database.

See also

- [AuditServer class](#)

CurrentAuditServer property

Gets the currently connected management database.

Syntax

```
AuditServer class CurrentAuditServer {get;}
```

Return value

Returns the connected management database.



Discussion

You can use the SQL Server instance name property of the management database object returned by this property as a parameter value when you call the `Connection.GetInstallation (server, database)` method.

See also

- [AuditServer class](#)
- [GetInstallation method](#)

Name property (audit installation)

Gets the name of the audit installation.

Syntax

```
String Name {get;}
```

Return value

Returns the installation name.

Discussion

The audit installation is named when it is created and this name is not normally changed during the life of the installation.

GetAuditStore method

Retrieves an audit store given its display name.

Syntax

```
AuditStore class GetAuditStore(  
    string Name  
)
```



Parameters

Errors

The `GetAuditStore` method may throw one of the following exceptions:

- `Centrify.DirectAudit.Common.Logic.AuthenticationException` if you do not have permission to connect to the Microsoft SQL Server instance or the management database.
- `Centrify.DirectAudit.Common.Logic.ConnectDatabaseException` if you cannot connect to the Microsoft SQL Server instance either because the Microsoft SQL Server instance is not running and does not allow remote connections.

Example

The following code sample accepts the audit store display name as an argument when the script is executed, calls the `GetAuditStore` method to get the audit store, then attaches a new audit store database to the audit store:

...

```
strInstallationName = wscript.arguments.item(0)
strAuditStoreName = wscript.arguments.item(1)
strServerName = wscript.arguments.item(2)
strDatabaseName = wscript.arguments.item(3)

SET objConnection = CreateObject("Centrify.DirectAudit.Connection")
SET objInstallation = objConnection.GetInstallation(strInstallationName)
SET objAuditStore = objInstallation.GetAuditStore(strAuditStoreName)
today = Date
strDatabaseName = strDatabaseName & "-" & Year(today) & "-" & Month
(today) &
& "-" & Day(today)

SET objAuditStoreDatabase = objAuditStore.GetDatabase(strDatabaseName)

' Create a new Audit Store database and attach to the Audit Store
SET objAuditStoreDatabase = objAuditStore.AddDatabase(strDatabaseName,
strServerName, strDatabaseName)
```

See also

- [AuditStore class](#)



Publish method

Publishes installation information to Active Directory.

Syntax

```
void Publish()
```

Errors

The `Publish` method may throw the following exception:

- `Centrify.DirectAudit.Common.Logic.DirectAuditException` if you do not have write permission for the installation's service connection point (SCP) object in Active Directory.

Discussion

Audit Manager publishes installation information to a service connection point (SCP) object in Active Directory so that audited computers and collectors can look up the information. For example, collectors publish which audit store they are part of so that once an agent determines which audit store is to receive its audit data, it can determine the list of collectors that service that audit store by querying Active Directory.

When you use the methods in the API to change settings in the installation, you must call the `Publish` method to write the new settings to the Active Directory domain controller so that other auditing components in the installation can find the new information.

Example

The following code sample illustrates using `Installation.Publish` in a script:

```
...  
objInstallation.Publish  
wscript.echo "Published settings to Active Directory."
```