Connection Manager

Administrator Guide

Version: 2.5.x

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July 2023	
May 2023	
April 2023	
January 2023	
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April 2022	
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Introduction to Connection Manager

Connection Manager provides secure connections to remote servers using RDP and SSH, allowing IT teams to launch ad-hoc connections to manage sessions with remote resources. Management of multiple active sessions is easy. You can store and organize connections by adding them to your favorites and import any folder structure or connections used in other tools for a single management hub.

It marks an expansion of Delinea's product line to include remote connectivity tools closely integrated with Secret Server. It permits technical staff to quickly access resources using the convenience of a familiar, rich desktop interface while maintaining all the safeguards and workflows included with Secret Server.

This manual includes instructions for installing and using Connection Manager as a stand-alone product or in conjunction with a Secret Server installation.

Installing Connection Manager

Connection Manager is a desktop client application that can be downloaded and installed on Windows and Mac machines. While the client application does not need to be installed in the same location as Secret Server, if users are planning to use the Secret Server integration, the machine on which Connection Manager is installed must be able to reach Secret Server. Connection Manager creates a local encrypted file storage for saving local connections and Secure Server(s) connectivity information.

For details on system requirements and the installation of Connection Manager, please follow the procedures below:

- System Requirements
- Windows Installation
- MacOS Installation
- Command line Arguments to Create a Secret Server Connection on Install

Permissions Required to Install/Uninstall Connection Manager

In order to install or uninstall Connection Manager, users must have administrator privileges.

Product Versioning

Connection Manager versions 1.9.2 and older will only include the release version in a three-digit format. Connection Manager versions 1.9.5-20221219.1 and newer will include the following elements:

- Version number
- Release date (YYYYMMDD)
- Build number

Connection Manager Hashes

This section lists the installer hashes for different versions of the product.

Version 2.6.1

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 e9850c7cc165affb02c1e0219454928ebd1a3889
- SHA256 daada0c0eb1dc274ec884069c6453cf490ca96106d70235af5cfeb3b9b36d52f

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 d03d261ab3edc9d1396e930ca3721201b614c4ca
- SHA256 18aa9b6f89529468a220b692f230598b8633d28705f6494775dff91821639d30

Version 2.6.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 3ef6574807e32d176805c978a5b5b706780ebe94
- SHA256 2789ec06e2ee6df7ca560dc27e0d4659225e7e85b5632a52836baabc89bdb944

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 dda6ef527638881fef3d2c875bdef645ad764c22
- SHA256 05240520ca74d77f02cd2a540a788cecd7c9e084ff98c02fb1c43f42a00e319b

Version 2.5.4

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 744322a9875789edc3817365a0e65df28b20e1e7
- SHA256 182852ad7bc64c5551341d351f0cf2d22a2dd5bc4f53a7dd78ff0dfcb2515133

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 b6c95a9fb705d54905ffc8a406a7bfb1bb131e32
- SHA256 8fb170402502dd743ce9d6657e71a15d25b6ca647464b92d1ce83f40488ac195

Version 2.5.3

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 e3046243e72f5cabae95cf63e287f376f629e629
- SHA256 e19b6b66bb18ded2e3a8e86bdac1514bf13f4d2aec88eae7366487ee8018cf2a

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 b53b4f46d90a5b804495270d1669c203cd56dc22
- SHA256 f7065e116fb2da88c0638d8ad9509e904aeeeeb8e6d608a2f8f7e56445ce8d3f

Version 2.5.2

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 1346d7e83193ecaecc818dc42e8fc2156a1d6bf2
- SHA256 29b394b0571dd53fbe5ddc6fe1068efc34fb227c08c182a2e9a80a044a55e04e

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 7993aa44672b32cb3e3f564bfb9b7e0803971991
- SHA256 c6c6d3c318f19dbac75e830ef8a1e3c9dfed4957bdf4aaf00e722911b51354b2

Version 2.5.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 18182facd4e1e07afb7085684bf9b2c2ce37aade
- SHA256 5a34df053be757b2f0f2a4a0475b1496c2dbaaacd28e7cd9597ee06c37e69dcc

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 506fc1e74e089420b8eb48cde1189817896db436
- SHA256 bf2547e4eb2202ac403f290ff3cae9db5efc359d95785b2e93ef5c3c73bcb504

Version 2.4.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 42ed43e0c01e8397d8adb9ec5e05b8176d865b2d
- SHA256 feeb76984963971b01c82cab4b39493a32848676e9aa20838cadbc00d5973516

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 ff0b7e445d62ec8b00ddd006cb220fbbd217a31b
- SHA256 add856e68ebcd9782a729a689ac99a654f4366102d733ee5d041c6049127eba5

Version 2.3.1

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 fbefd08eb6230455938d73fad36bffdeae587bf1
- SHA256 0b1eb3925bdb4b4707a2285bd2629012c5b526013e7ad37bd3c23fd387e10bad

Version 2.3.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 aedde832f7c34d79b31e88421d63e9496da4933a
- SHA256 63630fad8f528325cd2f0b5192164109a922432f4c30c937ea8b9ecc58098b82

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 f5f17217f4d209c6b7d3557ba8409da3affca6ec
- SHA256 e1dced949523e37491cd00e125d85b3da8609e3bb056b7616f448029e66b5468

Version 2.2.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 2ec4505043d7335802dc367fbc7d0a65f7637775
- SHA256 1bc9ebcf525d3a0c9714114915259b0d30b249e456eb286f85f4cff8f37091a8

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 f093d6be323c2e37b978819e2861137d012df713
- SHA256 9bc8cc637c768fcf97095edd982a28b8a2d83bb10f3fc8635b67dca10762a27c

Version 2.1.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 91c7a23bced911a1c3adda58d37a6b44a3630213
- SHA256 3494ab7f2c655371e83632142d423cdd4460abadd6938b75a39cae304d27898d

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 ebbaf553311f10406d5b90312256a2d464736615
- SHA256 b3a80893ddd8edcf7c6b297e186836d6fdc4712c9230f91948192fd96393cd69

Version 2.0.1

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1: fb2b89d80ed4dc5d0be6b7b50aec27d1c921d25d
- SHA256: f6c354bc4c809665b7149d6f64d1c73fc882773b31a916d39ba53be750416c64

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1: 02b364f3e3732ea9e0ff135427b8c9c0806bb952
- SHA256: 666f677c4ff3f4178af2b60c5681ecd7232c2f44b1900ea01753f73474ab5a73

Version 2.0.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 e82ee65d82f5285772fc8ba99d88da3f78e4da23
- SHA256 dd466d665a5b07426783a1cb65b3a116c4369a71434bf109021f6db099f433d8

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 6dd1554632cf9169b3037e3faa453d52c62095b4
- SHA256 b78f4fceb367f92a74345088ae2fda8512f55fcda77edbb4acc6d2c464be07a3

Version 1.9.6

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1– 1eafddb64e3adb59b0064c011b84415b42c13852
- SHA256 2c700193690249a4f19fea0a32e68125e5167437016a3d8eb0738a6fd9fa50c4

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 939bd5397823c257e37c76e203451bb35b4b5bf4
- SHA256 20898cc7e1cb8789cc8311e06d7c3d946962e4ea7ad445e3cd78f838a27efe96

Version 1.9.5

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 ef4877367d6b7f85747a2f0f54b2830de5221aad
- SHA256 66fa4fa4e8818f405cbd6b36be2a89dc0965e112810e9db42b575b4722f02274

Version 1.9.2

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 91a5c9648d59bedbf13b0afe857eb9741dba335c
- SHA256 6a6925b848637292cf576d242db5af35259269d8abb87d89ecb576d46721ae2b

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 e5a2dd007aaa764e568d5f4e9af603eb026b8c74
- SHA256 fcd0c3e03607e8ee75a8e4127d74c6f68b29d42f83dfefd095367ec4356887e0

Version 1.8.0

Windows Installer Hashes for Delinea.ConnectionManager.WindowsInstaller.msi

- SHA1 e4989e93fc2d1a3f5d0bc92a298b99be2cd0ce1e
- SHA256 d5352367df30e254678026c6724a80bb2761b96c726b78b11ef61a556c59e44b

Mac Installer Hashes for Delinea.ConnectionManager.MacOSInstaller.pkg

- SHA1 da39a3ee5e6b4b0d3255bfef95601890afd80709
- SHA256 e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855

Version 1.7.1 Hashes

Windows Installer Hashes for Thycotic.ConnectionManager.WindowsInstaller.msi

- SHA1-c0e269a41fc8ac974f445d6769ae28b9bd2008ff
- SHA256 22387c20a1620938a642906f2c103b43ea5c608975722d8a1f1a0db4d30d9cc5

Mac Installer Hashes for Thycotic.ConnectionManager.MacOSInstaller.pkg

- SHA1 4ede9f06111d11fc77900427e416b8f7a0cf0c25
- SHA256 088aa3c6ec903e04ced12871198a40d0dfc1a2028c7f8bcc21dc916786986ef2

Version 1.7.0 Hashes

Windows Installer Hashes for Thycotic.ConnectionManager.WindowsInstaller.msi

- SHA1 343c82d10b79abcff9302b7b1772f4caa8637047
- SHA256 3cf0ed060bc2b9d2639b779dd6e9c90c48adcd268646b9c3408726eac5bb1d05

Mac Installer Hashes for Thycotic.ConnectionManager.MacOSInstaller.pkg

- SHA1 9ae109074bffade9e2e3e0bca241db23457e0c50
- SHA256 b04fa74e41f522c3f13913b05194026b17ef329ba470e0200318cabf84b4962b

System Requirements

Connection Manager is a desktop application that can be installed on either Windows or macOS operating systems.

For Unicode characters, Connection Manager supports UTF-8 encoding. Minimum system requirements:

- Microsoft Windows: Windows 10 or later, Windows Server version 2016 or later; 8GB RAM.
- Apple macOS: 13 (Ventura), 14 (Sonoma), 15 (Sequoia); 8GB RAM. Both Intel and Apple based systems are supported.

Minimum requirements for connectivity to Secret Server vaults:

Secret Server Version: 10.7 or later

Installing on Windows

- 1. Download the MSI Windows Installer File (MSI) for Connection Manager.
- 2. Double-click the MSI file to start the install process.



3. Click Next to continue.

💿 Delinea Connection Manager Setup —		×
Destination Folder Click Next to install to the default folder or click Change to choose another.		63
Install Delinea Connection Manager to:		
C:\Program Files\Delinea \Delinea Connection Manager \]
Change		
<u>B</u> ack <u>N</u> ext	Can	cel

- 4. Select the location to install Connection Manager or leave the default location.
- 5. Click **Next** to confirm the location and accessibility for the install.

💿 Delinea Connection Manager Setup	_		×
Ready to install Delinea Connection Manager			53
Click Install to begin the installation. Click Back to review or change a installation settings. Click Cancel to exit the wizard.	any of yo	ur	
<u>B</u> ack <u>I</u> nstall		Can	cel

6. Click **Install** to start the installation. A progress bar will be displayed while the installation is in progress.



Installing Connection Manager

7. Once the install has finished, click Finish.

The install is complete, and the Connection Manager icon will be added to the desktop for easy access.

Updates

When the Connection Manager application is launched, users are prompted with an update message if a new release is available. If you would like to update, click **Update** or choose **Remind me later**. Starting with the 2.6 release, the update window will also contain a link to the release notes of the latest version. Once the update is complete, Connection Manager will launch automatically.

A new version of Deline Would you like to down Release notes 🖸	ea Connection Manager 2.5.3 is available. lload and install it?
	Remind me later Update

Installing on macOS

- 1. Download the PKG file from Delinea's Macos download page.
- 2. A PKG file will download to your system.

Note: The file extension is a .pkg starting with release 1.2.0.

- 3. Navigate to the DMG file and double-click to open, or right-click and select Open. The install window opens.
- 4. Click, drag, and drop the Delinea Connection Manager logo to the Applications folder. The installation begins.

Installing Connection Manager

	Welcome to the Delinea Connection Manager 1.9.6-20230324.1 Installer
 Introduction Destination Select Installation Type Installation Summary 	You will be guided through the steps necessary to install this software.

5. Once Connection Manager has been added, close the installer window.

Note: If you receive the following message on your install, click Open.



Delinea Encryption Key

Prior to launching Connection Manager version 2.5.3 or later for the first time, you will be asked to input your computer password to allow Connection Manager to use the confidential information stored in the Delinea Encryption Key in your Keychain. To prevent this message from appearing again, click **Always Allow**.

		Delinea Connection Manager wants to use your confidential information stored in "Delinea Encryption Key" in your keychain.					
		To allow this, enter the "login" keychain password.					
		Password:					
	?	Always Allo	wo	Deny	Allow		
٤							

Enabling Screen Recording and Input Monitoring

Some functions in Connection Manager for Mac require access to Screen Recording and Input Monitoring.

macOS 11 Big Sur introduced the capability for Mobile Device Management (MDM) profiles to give a standard user access to these functions. macOS does not provide this access automatically. You must configure the access by using an MDM Privacy Preferences Policy Control (PPPC) profile following the steps below.

- 1. Navigate to System Preferences > Security and Privacy > Privacy tab.
- 2. In the left-hand panel select Input Monitoring.
- 3. In the right-hand panel check the box next to Delinea.ConnectionManager.
- 4. In the left-hand panel select Screen Recording.
- 5. In the right-hand panel check the box next to Delinea.ConnectionManager.

Inside your MDM, create a PPPC profile using the settings below:

- Identifier: com.Delinea.ConnectionManager
- Identifier Type: Bundle ID
- Code Requirement:

```
identifier "com.Delinea.ConnectionManager" and anchor apple generic and certificate 1
[field.1.2.840.113635.100.6.2.6] /* exists */ and certificate leaf
[field.1.2.840.113635.100.6.1.13] /* exists */ and certificate leaf[subject.OU] =
UJDHBB2D6Q
```

- Services and Key Values:
 - ScreenCapture: AllowStandardUserToSetSystemService
 - ListenEvent: AllowStandardUserToSetSystemService

Command Line Arguments

The following command line arguments are supported by Connection Manager during installation only. They should not be used after installation to start the Connection Manager.

- -disablelocalvault
- -logo
- -logocollapsed
- -ssauth

Note: The -ssauth option supports three values: local, external and web. For internal authentication types, use web.

- -ssname
- ∎ -ssurl
- -reauthenticate

Note: The -reauthenticate option supports the following two values: y and n

Note: You must use double quotes inside the KEYS parameter because the value of the KEYS parameter is quoted itself.

Important: /quiet mode installation works only with Administrative privileges. If a user without administrator privileges runs the MSI with /quiet mode, nothing happens. If you would like to install the latest version of Connection Manager via quiet mode installation, you must first remove the previous version before installing the new one.

Note: When installing Connection Manager via command line options to set the Secret Server URL, these options will only be applied to the first user who logs in to Connection Manager. If you would like to make them the default options, you can use the following workarounds:

- 1. Prior to their initial log in, new users need to run Connection Manager via command line with args -ssurl "your ss url" -ssname "your ss name" -ssauth "your auth type"
- 2. Prior to their initial login, each user admin should create a file in path C:\ProgramData\Delinea\Connection Manager\repository.dat with the following content:

```
[
{
    "$type":"Delinea.ConnectionManager.Common.Models.SecretServerRepository,
Delinea.ConnectionManager.Common",
    "Url":"Your SS url",
    "PlatformUrl":null,
    "UserName":null,
    "Password":null,
    "Domain":null,
    "AuthType":"Local",
    "TwoFactorAuthType":"None",
    "PinCode":null,
    "StoreCredentialsInLocalStorage":false,
```

```
"SecretTempletes":null,
"LoadAllTemplates":true,
"Token":null,
"PlatformToken":null,
"ConnectionManagerSettings":null,
"Id":null,
"Name":"your SS name",
"Type":"SecretServer",
"IsAutoload":false
}
```

Note: If your command line parameter includes any spaces or parentheses, be sure to place quotation marks around the MSI file. An example is below.

```
For example: "C:\Users\MyUser\Downloads\Connection
Manager\Delinea.ConnectionManager.2.5.0.WindowsInstaller.msi" /quiet RUNCM=runCM
```

Changing the Installation Path

Users can change the Connection Manager installation path by inserting the INSTALLFOLDER variable during installation as shown in the example below:

Example for Windows

```
Delinea.ConnectionManager.2.6.0.WindowsInstaller.msi /quiet RUNCM=runCM INSTALLFOLDER="C:\work"
```

Pre-Configuring Vault Connections on Install

Administrators can pre-configure Delinea vault connections so that users do not have to create connections themselves when opening Connection Manager for the first time. These connections can be pre-configured in the .DAT file:

```
[
    {
        "$type": "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
Delinea.ConnectionManager.Common",
        "Url": "https://yourfirstvaulturl.com",
        "PlatformUrl": null,
        "UserName": null,
        "Domain": null,
        "Domain": null,
        "AuthType": "Local",
        "TwoFactorAuthType": "None",
        "PinCode": null,
        "StoreCredentialsInLocalStorage": false,
        "SecretTempletes": null,
        "LoadAllTemplates": true,
        "Token": null,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        Delinea.ConnectionManager.Common",
        "Url": "https://yourfirstvaulturl.com",
        "PlatformUrl": null,
        "UserName": null,
        "StoreCredentialsInLocalStorage": false,
        "SecretTempletes": null,
        "LoadAllTemplates": true,
        "Token": null,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
        "Difference.connectionManager.common.Models.SecretServerRepository,
        "Difference.connectionManager.common.connectionManager.com",
        "LoadAllTemplates": true,
        "Token": null,
        "Delinea.ConnectionManager.com",
        "Difference.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.connectionManager.conectionManager.connectionManager.connectionManager.connection
```

```
"PlatformToken": null,
    "ConnectionManagerSettings": null,
    "Id": null,
    "Name": "First Vault",
    "Type": "SecretServer",
    "IsAutoload": false
 },
  {
   "$type": "Delinea.ConnectionManager.Common.Models.SecretServerRepository,
Delinea.ConnectionManager.Common",
   "Url": "https://yoursecondvaulturl.com",
   "PlatformUrl": null,
   "UserName": null,
   "Password": null,
   "Domain": null,
    "AuthType": "Local"
    "TwoFactorAuthType": "None",
    "PinCode": null,
    "StoreCredentialsInLocalStorage": false,
   "SecretTempletes": null,
   "LoadAllTemplates": true,
    "Token": null,
    "PlatformToken": null,
    "ConnectionManagerSettings": null,
    "Id": null,
    "Name": "Second Vault",
   "Type": "SecretServer",
   "IsAutoload": false
 }
]
```

Disabling Local Vault on Installation

Use this argument to disable the local vault on installation:

-disablelocalvault

Example for Windows

Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-disablelocalvault

Example for MacOS

sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -disablelocalvault

Enabling/Disabling Auto Reauthenticate

This feature provides the option to configure vault reauthentication behavior in Connection Manager. Users may keep the existing behavior that automatically restarts the authentication flow or force a fresh login when their vault

session/refresh tokens have expired--mimicking the existing web API behavior.

The default value is **-reauthenticate y**. If the value is set to **-reauthenticate n**, the behavior will be more similar to the web API which forces a fresh login. The **-reauthenticate n** option is beneficial for users who use SAML configuration through an external identity provider with a longer session/refresh length and enables audit logs to correctly generate upon logout.

Use this argument to disable auto reauthenticate on installation:

```
-reauthenticate n
```

Example

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-ssurl
""https://secretserver.example.com/ss"" -ss-name ""new server"" -reauthenticate n"
```

Specifying Custom Logo Images to Copy to the Proper Location

The paths to the custom logo files, on Windows, are as follows:

- C:\ProgramData\Delinea\Connection Manager\Resources\logo.png
- C:\ProgramData\Delinea\Connection Manager\Resources\logo_collapsed.png

Use these arguments to specify custom logo images to be copied to the proper location:

-logo, -logocollapsed

Example for Windows

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-logo
""/Library/Application Support/Delinea2/Connection Manager/Resources2/logo.png"" -
logocollapsed ""/Library/Application Support/Delinea2/Connection Manager/Resources2/logo_
collapsed.png""
```

Example for MacOS

sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -logo (path to logo file) logocollapsed (path to collapsed logo file)

Example Powershell Command Line

```
.\Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS='"-logo
""/Library/Application Support/Delinea2/Connection Manager/Resources2/logo.png"" -
logocollapsed ""/Library/Application Support/Delinea2/Connection Manager/Resources2/logo_
collapsed.png""''
```

The path to the custom logo files, on a Mac, is as follows:

Users/Shared/Application Support/Delinea/Connection Manager/Resources

Two files are necessary to use custom logos:

Installing Connection Manager

- Logo.png 50 x 250 pixels
- Logo_collapsed.png 50 x 100 pixels

Delinea Platform Connection

```
Example for Windows
```

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-ssurl
""https://mycompany.delinea.app"" -ssname ""MyCompany Platform"" -ssauth web"
```

Pre-Creating a Secret Server Connection

Use these arguments to pre-create a Secret Server local or web connection on installation:

```
-ssurl, -ssname, -ssauth
```

External Browser Connection

Example for Windows

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-ssurl
""https://secretserver.example.com/ss"" -ss-name ""new server"" -ssauth external"
```

Example for MacOS

```
sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -ssurl
"https://secretserver.example.com/ss " -ssname "new" -ssauth "external"
```

Example Powershell Command Line

```
.\Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS='"-ssurl
https://secretserver.example.com/ss -ssname ""new server"" -ssauth external"'
```

Local Connection

Example for Windows

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-ssurl
""https://secretserver.example.com/ss"" -ss-name ""new server"" -ssauth local"'
```

Example for MacOS

```
sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -ssurl
"https://secretserver.example.com/ss " -ssname "new" -ssauth "local"
```

Example Powershell Command Line

```
.\Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS='"-ssurl
https://secretserver.example.com/ss -ssname ""new server"" -ssauth local"'
```

Internal Browser Connection

Example for Windows

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-ssurl
""https://secretserver.example.com/ss"" -ss-name ""new server"" -ssauth web"
```

Example for MacOS

```
sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -ssurl
"https://secretserver.example.com/ss " -ssname "new" -ssauth "web"
```

Example Powershell Command Line

```
.\Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS='"-ssurl
https://secretserver.example.com/ss -ssname ""new server"" -ssauth web"'
```

Disabling Local Vault

Example Powershell Command Line

```
`.\Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS='"-disablelocalvault"'
```

Example for MacOS

```
sudo installer -pkg ~/Downloads/DelineaConnectionManager.pkg -target / && open
/Applications/Delinea/Delinea\ Connection\ Manager.app --args -disablelocalvault
```

Disabling Local Vault via Admin Enforcement

Starting with the 2.6 release, administrators have the ability centrally to disable users' local vaults after installation. Below you will find links to instructions on how to disable the local vault, for all users, on both Windows and MacOS:

- "Disabling Local Vault via Admin Enforcement on Windows" on the next page
- "Disabling Local Vault via Admin Enforcement on MacOS" on page 20

Disabling Local Vault via Admin Enforcement on Windows

Disabling on Installation

If you are installing Connection Manager for the first time or local vault was previously disabled, follow the instructions below:

1. Install Connection Manager version 2.6 or newer via quiet mode.

```
Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS="-
disablelocalvault "
```

2. Open the Connection Manager registry, which can be found via the following path:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Delinea Inc.\Delinea Connection Manager

- 3. Open the AdminConfig folder inside the Delinea Connection Manager folder.
- 4. Inside the AdminConfig folder, you will see a **DisableLocalVault** setting. By default, this setting is set to n, meaning that local vault is enabled for local users.



5. Change this value to y to disable local vault for all users.

1	😭 Registry Editor — 🗆 🗙											
File	Edit	View	Favorites	Help								
Com	Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Delinea Inc.\Delinea Connection Manager\AdminConfig											
	-	SECUR	YTI		Name	Type	Data					
	Ý 🚞	SOFTV	VARE		ab (Defaalt)	REG CZ	(value not set)					
		📒 1D	DEC6DE-4A	80-4C(DisableLocalVault	REG SZ	y					
		Ad 📄	GuardVPN			-	,					
	>	Cla:	sses	1								
	>	Clie	nts	- 1								
		📒 Def	aultUserEn	vironm								
	Ň	Del	inea Inc.	- 1								
		× 📜	Delinea Cor	nectio								
			AdminC	onfig								
	2	Do	by	- 1								
	2	- dot	net	- 1								
	2	Ghi Ghi	sler	- 1								
	2	Go	ogle	- 1								
	Ň	IBN	Security									
			IBM Securit	y Verify "								
	2	IM	Providers									
	2	Inte	el.									
	2	Khr	onos									
	2	Len	ovo									
	2	Mic	rosoft									
	2	Mo	zilla									
	2	Mo	zillaPlugins									
	2	OD OD	BC									
_			_									

Important: If users already had existing local vaults created, they will be able to continue using them after this setting is applied.

Backing Up and Disabling Existing Local Vaults

If users already had an existing local vault created, administrators can disable these local vaults, before or after installation, by following these steps:

1. Open the Connection Manager registry, which can be found via the following path:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Delinea Inc.\Delinea Connection Manager

- 2. Change the value to fy
- 3. When users launch Connection Manager, they will need to enter the password to the local vault and they will see a message that their local vault was disabled by administrator.

The local vault option in the left side navigation will be disabled for all users and a backup for the .dat file will be automatically created. This setting will take effect when Connection Manager is relaunched.

Re-Enabling Local Vault After Disabling

Administrators can centrally re-enable local vaults by following the steps below:

- 1. Change the value in the Registry to n or delete this value altogether.
- 2. In the Main Menu left-side navigation click Enable Local Vault.
- 3. Delete the current ConnectionManager.dat file.
- 4. Rename the backup file ConnectionManager.dat.bak to ConnectionManager.dat.

Disabling Local Vault via Admin Enforcement on MacOS

Disabling on Installation

If you are installing Connection Manager for the first time or local vaults were previously disabled, install Connection Manager version 2.6 or newer via quiet mode using the following command:

sudo installer -pkg Delinea.ConnectionManager.2.6.0.MacOSInstaller.pkg -target / && sudo
defaults write /Library/Preferences/com.Delinea.ConnectionManager.plist disablelocalvault
y

Note: The following file will be created during installation and can later be used to adjust administrator settings.

/Library/Preferences/com.Delinea.ConnectionManager.plist

Important: This file can be edited only by administrators and is read-only for regular users.

Backing Up and Disabling Existing Local Vaults

If users already had an existing local vault created, administrators can disable these local vaults, before or after installation by running the following command:

```
sudo defaults write /Library/Preferences/com.Delinea.ConnectionManager.plist
disablelocalvault fy
```

After users launch Connection Manager, they will see a message that their local vault has been disabled by an administrator.

Re-Enabling Local Vault After Disabling

Administrators can centrally re-enable user access to local vault by running the following command:

sudo defaults remove /Library/Preferences/com.Delinea.ConnectionManager.plist
disablelocalvault

Getting Started

Connection Manager creates a local encrypted file storage for saving local connections and Secure Server(s) connectivity information.

- "Secret Server Requirements " on page 46
- <u>Create a Password</u>
- Sign in
- User Interface Components

Creating a Password

When Connection Manager is launched for the first time, or if no file storage is detected, you must create a secure password for this vault.

Important: If this password is lost, the saved connections are not recoverable and will have to be reentered. 1. Enter the local password and start the application. The following window opens.

Create Storage for Connections

Connection Manager needs to create a secure storage file for your local connections.

Data File Location*	C:\Users\ilyus\AppData\Roaming\Delinea\Connection Manag
	Browse
Password*	
	Must include 8 characters, 1 upper, 1 lower, 1 number and 1 symbol (@#\$%&)
Confirm Password*	

- 2. Enter the **password** to start the application.
- 3. Confirm the password and click Create.
 - Note: If a local storage file exists but a user wishes to create a new one, click Create new local storage file link at the bottom left of the window. This will overwrite any existing storage file and any data stored there.

Exit

Create

Signing into Connection Manager

When opening Connection Manager locally on your system, you are presented with a Sign-in modal.

Getting Started

Sign In	
Enter your password to access the local storage f	ile
Password	
Create new local storage file (all existing connections will be lost)	Exit Start

- 1. Enter the password you previously created.
- 2. Click Start.

You can choose to **Create new local storage file**, however that will remove all existing connections for your system.

Ent	
	All your existing connections will be lost. Are you sure that you want to continue?
Pas	
	No Yes

User Interface Components

Users of Secret Server's modern interface will find Connection Manager's interface and functionality to be similar in look and feel. The interface takes advantage of some client-side functionality such as right-click menus, doubleclick menus, and others.

- Main Screen
- Navigation Tree
- Work Area
- Properties Area
- Menus

Main Screen

The main screen consists of two components:

- the navigation tree (which may be minimized) on the left and
- the tabbed work area to the right.

The two sections work in concert with each other.

ó	CONNECTION MANAGER	🖸 Con	inections					
-∿-	Active Sessions	Loc	al Connections			¢		Q
C	Recent		6 Items					<u></u>
7	Shared With Me							
☆	Favorites		NAME 个	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	CONNECTION SOURCE	LAST
ď	Connections		Harry's RDP Connection 🛛 🕁	RDP	Local Connections		Local Connections	
\odot	Local Connections		Ilva's connections	SSH	Local Connections		Local Connections	
	C csdfdsfawewegeg			202				
,			II yas RDP connection	RDP	Local Connections		Local Connections	
	Ilya's folder 2		John's connections	SSH	Local Connections		Local Connections	
	ss-current		Max's connection	SSH	Local Connections		Local Connections	
>	Personal Folders		Ron's RDP connection	RDP	Local Connections		Local Connections	
>	Add Some Folders							
>	AutoTestGroup							
>	AutoTestGroup22	\mathbf{N}						
	AutoTestGroup33		hover-click resizable					
>	Empty Folder Test		navigation area					
	🗋 Folder With A Sub							
ക								

The navigation area is hover-click resizable.

Menus

There are several menu types available within the user interface:

Stack Menu

The menu at the top left of the application allows you to select File and Help.

Getting Started



File

Under File you can do the following:

- Create new connections (RDP or SSH)
- Create new folders
- Delete folders/connections
- Exit the application

≡				Ø – ♂ ×
File New Connection RDP Connection				
Help • New Folder SSH Connection				
Active New Secret normandy > Personal P	olders > Oscar Normany		e	Q
C Recen Copy 5 Items All Templates				C III
A Shared Cut NAME ↑	SECRET TEMPLATE FO	LDER PATH		
Paste ileZilla	Unix Root Account (os	car.normandy/Personal Folders/Oscar Normany		
Local C Enable Local Vault ithub.com	Web Password os	car.normandy/Personal Folders/Oscar Normany		
Interna Disable Local Vault ya's Sesion Recording Sec	ret Active Directory Acc os	car.normandy/Personal Folders/Oscar Normany		
oscar.r Change User Data Folder rest Secret	Unix Account (Privil os	car.normandy/Personal Folders/Oscar Normany		
Oscar Normany Jest Secret 10101010	Windows Account os	car.normandy/Personal Folders/Oscar Normany		
☐ Shared Super Secret Vault				
😟 Configuration 🖌				

Note: The Stack menu is context sensitive so the available, displayed options depend on what is currently selected in the navigation tree or the main work area.

Help

Under Help you can select User Guide and About:
File +	C? Connections				Ø – ₽ ×
Help Vser Guide	oscar.normandy > Personal Folders	> Oscar Normany		•	Q
Recent Shared With Me	5 Items All Templates				G III
Favorites	NAME ↑ FileZilla	SECRET TEMPLATE	FOLDER PATH		
Local Connections External Browser	github.com	Web Password	oscar.normandy/Personal Folders/Oscar Normany		
Internal Vault	Ilya's Sesion Recording Secret	Active Directory Acc	oscar.normandy/Personal Folders/Oscar Normany		
Oscar.normandy O Personal Folders	Test Secret	Unix Account (Privil	oscar.normandy/Personal Folders/Oscar Normany		
Super Secret Vault					
Onfiguration <					

Right Click Navigation Menu

Right clicking a folder allows you to:

- Create new folders
- Create new connections
- Delete folders
- Export and Import connections
- Collapse and Expand Secret Server connections and Local connections

Work Area Menu

Right clicking the work area allows you to:

- Create new folders
- Create new connections (RDP or SSH)

Search

In the upper right corner of Connections, Local Connections, and Secret Server Connections windows there is a search box. A normal search action will only look within the currently selected folder. This search bar will act as a global search in some cases.

Template Search

The Template Search functionality allows you to search for secrets by secret template. You can select a template from the list or type in the name of the template.

≡		Ø – ₽ ×
Connection Manager	C Connections	
Active Sessions	oscar.normandy	Q
C Recent	25 Items All Templates	G III
Shared With Me	NAME & Active D ECONFORMUL	
☆ Favorites	INAME I POLDERPAIN	
Connections	Art/Decco Active Directory Accountoscar.normandy/Shared	
Local Connections	Cisco - Hallway Router Cisco Account (SSH) oscar.normandy/Shared	
External Browser		
Internal Vault	Cloud Dev - Project reacup - My_ Mysql Account oscar.normandy/Shared	
oscar.normandy	Cloud Innovation Lead - AI - GCP Google IAM Service oscar.normandy/Shared	
Shared	Cloud Innovation Lead - AWS Po Amazon IAM Key oscar.normandy/Shared	
Super Secret Vault	Cloud Innovation Manager - AW Amazon IAM Consol oscar.normandy/Shared	
	Cloud Innovation Manager - MS Azure AD Account oscar.normandy/Shared	
	Corporate AmEx card Bank Account oscar.normandy/Shared	
	Corporate LinkedIn - HR Web Password oscar.normandy/Shared	
	ESX/Box VMware ESX/ESX/ oscar.normandy/Shared	
	FileZilla Unix Root Account (oscar.normandy/Personal Folders/Oscar Normany	
	github.com Web Password oscar.normandy/Personal Folders/Oscar Normany	
	Ilya's Sesion Recording Secret Active Directory Acc oscar.normandy/Personal Folders/Oscar Normany	
	Ilya's Sesion Recording Secret Active Directory Acc oscar.normandy/Shared	
😳 Configuration <		

Global Search

The global search option is only available at the top-level node for a Secret Server connection, or if the Local Connections node is selected in the navigation bar. Global search is available in the top right corner of the work area and will perform a search through the entire selected connection.

For example, if a user selects the top level of a Secret Server connection and then performs a search, the search will look through the entire Secret Server connection for the value, but it will not look through the Local Connections or any other Secret Server connections. If a user instead selects their personal folder or a sub-folder within the connection, the search will be limited to only the selected folder.

Configuration

Located at the bottom left of the application screen, the Configuration button allows users to set up and control various aspects of the application.

Navigation Tree

Active Sessions

Select to view all active sessions.



Favorites

You can add favorite connections by hovering over an existing connection and selecting the star. Favorites that are specified in Connection Manager will also be listed as favorites in Secret Server and vice versa.

Favorites page showing only local connection favorites:

	😭 Favorites	
Active Sessions		Q
C Recent	3 Items	G ≈
Shared With Me	NAME 🛧	
Connections	Ilya's connections 🗙	
Local Connections C csdfdsfawewegeg	Il'ya's RDP connection	
> 🗋 Ilya's folder	John's connections ★	
Ilya's folder 2		
ss-current		
😧 Configuration 🔇		

Favorites page showing local and Secret Server connection favorites:

	☆ Favorites				
- ▲ Active Sessions					Q
C Recent	3 Items				C ∞
Shared With Me	NAME 🛧	CONNECTION TYPE	FOLDER PATH	CONNECTION SOURCE	
Connections	Ilya's connections 🔺	SSH	Local Connections	Local Connections	
Local Connections	ll'ya's RDP connection 🔺	RDP	Local Connections	Local Connections	
> 🗋 Ilya's folder	John's connections 🔺	SSH	Local Connections	Local Connections	
 Ilya's folder 2 Ilya's super secret folder 					
A ss-current					
🚱 Configuration <					

Shared With Me

Select to view or launch all secrets and sessions shared with you from all currently connected secret servers.

	→ Shared With Me		
▲ Active Sessions		Q	
C Recent	16 Items		C ⇔
A Shared With Me			
Favorites	NAME 1	CONNECTION TYPE FOLDER PATH CONNECTION SOURCE	
Connections	AD IBM 10.7 🔺	Active Directory Acc ss-current	
 Local Connections Csdfdsfawewegeg 	ibm 7.2	Windows Account ss-current	
> 🗋 Ilya's folder	permissions - edit	Windows Account ss-current/Personal Folders/Ma ss-current	
Ilya's folder 2	permissions - list	Windows Account ss-current/Personal Folders/Ma ss-current	
ss-current	permissions - view	Windows Account ss-current/Personal Folders/Ma ss-current	
Personal Folders Max	Request Access secret	Unix Account (SSH) ss-current/Personal Folders/Ma ss-current	
> 🗋 Add Some Folders	Require Approval for MAX	Unix Account (SSH) ss-current	
> 🗋 AutoTestGroup	Require aproval	Active Directory Acc ss-current	
> 🗋 AutoTestGroup22	restricted COL	Univ Annual (CCU)	
AutoTestGroup33	restricted 55H	Unix Account (SSH) SS-current/Personal Folders/Mall SS-current	
> 🗋 Empty Folder Test	Root folder secret	Active Directory Acc ss-current ss-current	
Folder With A Sub			

Double clicking on these Secrets will launch sessions.

Recent

Select to view or launch recently active sessions or to create a new Secret Server connection.

6 ⁵	CONNECTION MANAGER	O Recent			
-∿-	Active Sessions	NAME	CONNECTION SOURCE	CONNECTION TYPE	LAST ACCESS
	Recent	RDP	ss-current		49 seconds ago
~	Shared With Me				
☆	Favorites	SSH	ss-current	Unix Account (SSH)	31 minutes ago
ß	Connections	SSH - recording session	ss-current	Unix Account (SSH)	34 minutes ago
0	Local Connections	RDP Proxy	ss-current	Windows Account	35 minutes ago
>	Ilya's folder	Harry's RDP Connection	Local Connections	RDP	19 hours ago
	Ilya's folder 2	Ilya's connections	Local Connections	SSH	19 hours ago
	Ilya's super secret folder				
	ss-current	II'ya's RDP connection	Local Connections	RDP	19 hours ago
~	Personal Folders	Ron's RDP connection	Local Connections	RDP	19 hours ago
	> 🗋 Max				
>	Add Some Folders	John's connections	Local Connections	SSH	19 hours ago
>	AutoTestGroup				
>	AutoTestGroup22				
	AutoTestGroup33				
>	Empty Folder Test				
٩	Folder With A Sub Configuration				

Existing entries also display connection type. These can be viewed via tab.



Connections

Select to display the folder tree for Local and Secret Server connections.

	C ⁷ Connections	
Active Sessions		Q
Recent	2 Items	
Favorites	NAME T	
Connections	🕅 Local Connections	
 Local Connections Csdfdsfawewegeg 	ss-current	
> 🗋 Ilya's folder		
🗋 Ilya's folder 2		
Ilya's super secret folder		
Ss-current		
🕄 Configuration 🖌		

Navigate using the tree, or drill-down through folders to display in the work area window. Existing connections can be viewed via tab.



Local Connections

Select to view all local connections. In this view, you can drag and drop folders to organize them logically.

Shared with me

Select to view all secrets/sessions shared with you from a Secret Server connection. You can double-click these Secrets to launch sessions for them.

Configuration

Clicking within this area brings up a sub-menu with options such as

- Secret Server Connections and
- Global Configurations.

ŵ	Configuration	<

The < can be used to collapse and > expand the Navigation menu.

Properties Area

All Local connections, Secret Server connections, and folders have a Properties section. This section allows a user to view some of the details of the connection and folder and allows users to perform functions on the selected object, such as launching a connection, editing properties, or viewing passwords.

🖸 Con	nections				
SS-0	current > Personal Folders > Max > ⁻	Test data (don't tou		e	Q
	16 Items All Templates			C ∞	C X shared SSH
	NAME 1	SECRET TEMPLATE	FOLDER PATH	CONNECTION SO	Edit Machine
	test for SS update		ss-current/Personal Folders		10.10.202.134
	RDP ★	Windows Account	ss-current/Personal Folders	ss-current	Username root2
	RDP (1920×1080)	Windows Account	ss-current/Personal Folders	ss-current	Password Show
	RDP - recording session 🔺	Windows Account	ss-current/Personal Folders	ss-current	Launchers
	RDP for SSH Tunneling with SSH	Windows Account	ss-current/Personal Folders	ss-current	PuTTY-SSH
	RDP Proxy	Windows Account	ss-current/Personal Folders	ss-current	putty X11 forwarding
	shared SSH	Unix Account (SSH)	ss-current/Personal Folders	ss-current	
	SSH	Unix Account (SSH)	ss-current/Personal Folders	ss-current	
	SSH - recording session 🛛 🛧	Unix Account (SSH)	ss-current/Personal Folders	ss-current	
	SSH Proxy	Unix Account (SSH)	ss-current/Personal Folders	ss-current	

Note: The Properties section for a Secret Server Secret will never display, or have an option to display, the password for that Secret.

Work Area

The work area consists mostly of tabs representing open connections. The first tab corresponds to one of the selected options in the navigation tree which includes

- Active Sessions,
- Recent Connections, or
- a folder-view of Local Connections/connected Secret Server. For the latter, you may navigate through folders directly inside either connection tabs.

Authenticating to a Vault

This section contains information about:

- "Authenticating to a Delinea Platform Vault" below
- "Authenticating to Secret Server " on page 46
- "Authenticating to Secret Server via Local Username" on page 56
- "Re-authenticating to a Vault" on page 66
- "Modifying a Vault" on page 68
- Removing a Vault" on page 71

Authenticating to a Delinea Platform Vault

Users can connect to the Delinea Platform via external and internal browser. External browser login is conducted through the user's default web browser, whereas internal login is conducted through an embedded Connection Manager browser.

Authenticating to the Delinea Platform via External Browser

1. In the Configuration menu, select Delinea Vaults

\equiv		Ø – □ ×
Connection Manager	Connections	
Active Sessions		Q
C Recent	1 Items	
 Shared With Me Favorites 	NAME 1	
Connections	O Local Connections	
Configuration Gl	abal Configurations	

2. Enter your Connection Name and Connection URL and click Next

Connection Name*	artdecco
Connection URL*	https://mycompany.delinea.app

3. In the Authentication Type dropdown menu, select External Browser and click Next.

Connection URL*	https://mycompany.delinea.app
Authentication Type:	External Browser
	External Browser

4. A browser window will open to redirect you to the Delinea Platform's login page. Click **Continue** to proceed.

Welcome to the Delinea Platform



5. Enter your Username and click Next.

Ń	Note: The username must be in the following format: username@domain. For example,
	artdecco@mycompany

	L	og in	
Delinea	Username artdecco@mycompany		Forgot username
Defining the Boundaries of Access			

6. If required, select your authentication method and enter your credentials. Click Next

Note: You may be challenged with other secondary prompts like MFA, Security Question, etc. depending on your login profile.

	Log	n
Dolinoa	artdecco@my	company
UCIII ICA	Authentication method	Forgot passwo
Defining the Boundaries of Access	Password	
	Password	
	Enter your password	C
	Keep me logged in	
	Next	5
	Start o	

7. You have successfully logged in to the Delinea Platform.





You've successfully authenticated onto the Platform. You can now close this browser tab and continue from where you left off.

Authenticating to the Delinea Platform via Internal Browser

1. In the Configuration menu, select Delinea Vaults

Ξ		0 – 🗆 ×
Connection Manager	C Connections	
Active Sessions		Q
C Recent	1 Items	
✓ Shared With Me ✓ Favorites	NAME 1	
Connections	O Local Connections	
	hea Vaults	

2. Enter your Connection Name and Connection URL and click Next.

Connection Name*	artdecco
Connection URL*	https://mycompany.delinea.app

3. In the Authentication Type dropdown menu, select Internal Browser and click Next.

Connection Name*	artdecc
Connection URL*	https://mycompany.delinea.app
Authentication Type:	Internal Browser

4. Enter your Username and click Next

Note: The username must be in the following format: username@domain. For example, artdecco@mycompany

Please, enter your credentials	
De	linea
Defining the l	Boundaries of Access
l	Log in
Username	Forgot username
artdecco@mycompany	
	Next
0	elinea
©2024 Delinea Term	s & Conditions Privacy Policy

5. If required, select your authentication method and enter your credentials. Click Next

Note: You may be challenged with other secondary prompts like MFA, Security Question, etc. depending on your login profile.

Add Vault

Please, enter your credentials

Defining the Bounda	aries of Access
Logi	n
artdecco@my	company
Authentication method	Forgot password
Password	•
Password	
Enter your password	٢
Keep me logged in	
Mart	

6. Select the Secret Server templates you would like to use with this application. You can choose to use all templates or custom selected ones. Click **Finish.**

Add Selec	Vault t secret server templates to use in this application
	Everything (detect newly added templates) Custom Selection (new templates must be manually added)
	Back Cancel Finish

	Everything (detect newly added templates) Custom Selection (new templates must be manually added)
Sear	rch for Template Name
-	6 Selected
7	Active Directory Account
5	Amazon IAM Console Password
	Amazon IAM Key
	Azure AD Account
	Bank Account
$\overline{}$	Cisco Account (SSH)
	Cisco Account (Telnet)
	Cisco Enable Secret (SSH)
	Cisco Enable Secret (Telnet)
	Cisco VPN Connection
	Combination Lock
	Contact
_	

7. Your external vault has been created.

Deline	ea Vaults			
6	artdecc	Edit	https://mycompany.delinea.app	Remove
				Close Add Vault

Authenticating to Secret Server

This section contains information about:

- "Secret Server Requirements " below
- "Authenticating to Secret Server via External Browser" on the next page
- "Authenticating to Secret Server via Internal Browser" on page 51
- "Authenticating to Secret Server via Local Username" on page 56

Secret Server Requirements

The following are the hard requirements for connecting to Secret Server:

- Must have Secret Server 10.7:
 - Requires RESTAPIs
- Must have the "IsConnectionManager" flag set on Secret Server license
- When we connect, we try to check what version of Secret Server is being used:

- If below 10.7 we will not connect
- If we cannot detect the Secret Server version, we return the message we receive from Secret Server and it usually means the Secret Server version # is hidden, and we receive an "Access Denied" message
- A Secret Server Username

Note: If you are using a TLS certificate to authenticate to Secret Server, only TLS certificates versions 1.2 and newer are supported.

Authenticating to Secret Server via External Browser

Connection Manager will only authenticate to Secret Server version 10.7 or later and requires a valid Secret Server license.

Note: For Secret Server implementations using Windows authentication, also refer to details in this article <u>Setting Up Integrated Windows Authentication in Secret Server</u>. Use the RestAPI as the authentication method instead of Windows authentication.

- 1. In the *Configuration* menu, select **Delinea Vaults**.
- 2. Click Add Vault.

Exteri	nal Vaults			hanne Aadaliaan Mandea	
0	art decco		Learn more a	bout Adding vaults	
	arcabboo	Edit	nttps://mycompany.delinea.app		Remove
				Close A	dd Vault

3. Enter your Secret Server Connection Name and Connection URL and click Next.

secret server company.secretservercloud.com
company.secretservercloud.com

4. Select External Browser from the Authentication Type dropdown menu.

Add External Connection

Choose login method and complete login.

Connection Name*	art decco's connection
Connection URL*	https://mycompany.secretservercloud.com
Authentication Type:	External Browser 🔹
	Local Login
	Internal Browser
	External Browser
Clicking 'Next' will open S Click Connection Manag login process. Click the Launcher to con	Secret Server in browser. Jer Launcher to complete mplete login process.
Back	Cancel Next

5. A Connection Manager banner will appear requesting that you go to your browser to complete the connection.

Add External Connection

Please, enter your credentials

Wust be on Secret Server Version 11.2 If you are on a lower version, please change login option in the previous step.



2



6. Login with your Delinea Platform or Local Login credentials.



Important: Customers using Secret Server On-Premises version 11.7.31 and newer do not need to complete Step 7.

7. Under Launchers, click connection-manager.



Authenticating to Secret Server via Internal Browser

- 1. In the *Configuration* menu, select **Delinea Vaults**.
- 2. Click Add Vault.

Authenticating to a Vault

			Learn more about Adding Vaults	
9	art decco	Edit	https://mycompany.delinea.app	Remove
				2

3. Enter your Secret Server Connection Name and Connection URL and click Next.

Connection Name*	art decco's secret server
Connection URL*	https://mycompany.secretservercloud.com

4. Select Internal Browser from the Authentication Type dropdown menu.

Add External Connection

Choose login method and complete login.

Connection Name*	art decco's secret server vault	
Connection URL*	https://mycompany.secretservercloud.com	1
Authentication Type:	Internal Browser	•
Authentication Type:	Internal Browser Local Login	•
Authentication Type:	Internal Browser Local Login Internal Browser	•

Back		Cancel	Next

5. Log in with your Delinea Platform or Local Login credentials.

Add External Connection Please, enter your credentials

		\$	
	Deline Defining the Boundaries of A	a	
	Secret Ser	rver	
L	og in to cont	inue	
९ Platform ९ Local Login			
Having trouble logging Log out from Pla	into your account? atform		
Back		Cancel	Reload

Authenticating to Secret Server via Local Username

- 1. In the Configuration menu, select Delinea Vaults
- 2. Click Add Vault
- 3. Enter your Secret Server Connection Name and Connection URL and click Next

Connection Name*	art decco's secret server	
Connection URL*	https://mycompany.secretservercloud.com	

4. Select Local Login from the Authentication Type dropdown menu and click Next

Add External Connection

Choose login method and complete login.

Connection Name*	art decco's secret server	
Connection URL*	https://mycompany.secretservercloud.com	
Authentication Type:	Local Login	•
	Local Login	Ν
	Internal Browser	-0
	External Browser	

Back

Cancel

Next

5. Complete all of the required fields

Username*		
Password*		
Domain		
Two Factor:	Selec	t two factor authentication that applies:
	۲	None
	0	PinCode
	0	Duo Push
	0	Duo Phone Call
Remember me:		Store credentials locally
		Launch automatically at application start

Username: The username for the Secret Server instance to which you want to login. (This is NOT the "username@company.com" format.) * **Password**: The password for the account.* **Domain**: The Secret Server environment. If this environment has been given a specific Domain value for login, enter the same value here. * Two Factor: Select the appropriate two-factor authentication option for your environment.



Note: Connection Manager only supports the Secret Server TOTP Authenticator multifactor authentication option. Email is not supported. * Remember me: Select this check box if you want Connection Manager to remember the credentials you entered. This option stores the credentials in local storage and encrypts them using your application password.



Note: Even if the Remember me option is selected, a user will still need to authenticate back to Secret Server when the application launches or times out.

- 6. Click Connect
- 7. Select the Secret Server templates to use with this vault. You can choose to use all templates or custom selected ones.

Add External Connection

Select secret server templates to use in this application



Everything (detect newly added templates)

Custom Selection (new templates must be manually added)


\bigcirc

Add External Connection

Select secret server templates to use in this application

- Everything (detect newly added templates)
 - Custom Selection (new templates must be manually added)

Search for Template Name			
	6 Selected		
	17Jan		
\square	Active Directory Account		
	Active Directory Account Bug		
	ADWEB		
	Amazon IAM Console Password		
	Amazon IAM Key		
	AnOddWebPasswordTemplate		
	Azure AD Account		
	Azure Service Principal		
	Bank Account		
	BugTest		
	Check		
	$-$, $I = -$, Λ		



Authenticating to a Local Vault

A local vault is an encrypted and password-protected data file saved on the user's machine that stores local connection credentials and passwords.

Local Vault Enabled

With the local vault enabled, the user can create local RDP and SSH connections, and save the connections and credentials locally. The user must protect this local data by logging into Connection Manager with their password each time they open the application. As soon as the user logs into Connection Manager, they are automatically connected to Secret Server.

Local Vault Disabled

For added security, administrators and users can disable storage of connection credentials and passwords in a local vault. When use of the local vault is disabled, the user cannot create local RDP or SSH connections. When the local vault is already enabled and the user disables it, any existing local connections will be permanently deleted and the user will be able to access only secrets that are synched from Secret Server. The user will not need to log into Connection Manager each time they open the application, but they will need to log into Secret Server when they open Connection Manager.

Enable or Disable Local Vault on Installation or Upgrade

When Connection Manager is installed on a machine for the first time, or when upgrading to version 1.6.0 or higher, the application asks, "How will you use Connection Manager?"

≡		Ø – □ >
Active Sessions Recent Shared With Me Favorites		
Connections	How will you use Connection Manager? Use secrets synched from Secret Server and locally stored Only use secrets synched from Secret Server Learn More Exit Next	
Onfiguration		

The first choice, **Use secrets synched from Secret Server and locally stored**, enables use of the local vault. The second choice, **Only use secrets synched from Secret Server** disables use of the local vault. You can also disable use of the local vault using the command line argument -disablelocalvault on installation only (not on upgrade), as follows:

Windows

Delinea.ConnectionManager.WindowsInstaller.msi /quiet RUNCM=runCM KEYS=-disablelocalvault

Mac

sudo installer -pkg ~/Downloads/Delinea.ConnectionManager.<your version>.pkg -target / &&
open /Applications/Delinea/Delinea.ConnectionManager.app --args -disablelocalvault

Enable or Disable Local Vault When Authenticating to Secret Server

In the workflow for connecting to Secret Server, the user can check the box next to **Remember me** to store their credentials to a local vault. To disable the local vault, ensure that the **Remember me** box is unchecked.

Connect to Secret Server

Username*		
Password*		
Domain		
Two Factor:	Select	t two factor authentication that applies:
	0	None
	0	Pin Code
	0	Duo Push
	$oldsymbol{O}$	Duo Phone Call
Remember me:	~	Store credentials locally
Launch automatically		
		Cancel Connect

Enable or Disable Local Vault at Any Time

To enable or disable the local vault at any time, do the following:

- 1. From the main Connection Manager screen, click the hamburger icon in the top left corner
- 2. Click File.

3. Click either Enable Local Vault or Disable Local Vault.

Default Local Vault Location

The default local vault location, on Windows is C:\Users\User Name\AppData\Roaming\Delinea\Connection Manager

The default local vault location, on MacOS is /Users/User name/Library/Application Support/Delinea/Connection Manager

Changing Local Vault Location

Windows

The Delinea.ConnectionManager.exe.config - AppDataFolder user setting can be modified at any time. The changes will be applied after restarting Connection Manager.

Using the -1spath argument during installation:

Example command line:

"Delinea.ConnectionManager.2.6.0.WindowsInstaller.msi KEYS="-lspath C:/myFolder""

Example PowerShell:

```
.\Delinea.ConnectionManager.exe /quiet RUNCM=runCM KEYS='"-lspath C:/myFolder""
```

MacOS

Update the Env.DataLocation variable to set local vault location.

Note: If you decide to change the location of the local vault, you will also need to copy the *ConnectionManager.dat* file to your new local storage location in order to keep your original vault configuration.

Re-authenticating to a Vault

Note: When Connection Manager starts, the configured Secret Server connection are displayed under the Connections tab, but they are **not** connected.

To reauthenticate an existing Secret Server connection, either:

- Double-click the closed-lock icon in the navigation menu, or
- On the Connections page, in the list right-click the connection you wish to open and select Connect.

	Connections
- Active Sessions	
C Recent	2 Items
Shared With Me	
🔂 Favorites	NAME 1
Connections	Local Connections
O Local Connections	
C csdfdsfawewegeg	SS-CURRENT SS-CURRENT
∼ 🗋 Ilya's folder	
🗋 ilya's folder 2	
🗋 Ron's folder	
🗋 Ilya's folder 2	
🗋 Ilya's super secret folder	

If you lose your internet connection to Secret Server, Connection Manager makes multiple attempts to automatically reauthenticate to Secret Server in the background. After 30 seconds, Connection Manager displays the dialog, **Attempting to Auto-Reauthenticate to [Secret Server name]** for three more minutes and continues to attempt to reauthenticate. The dialog displays a **Cancel** button for users who wish to drop the connection, and a **Reauthenticate** button for users who wish to attempt to reauthenticate. If at any time during this period the Secret Server connection is regained, Connection Manager automatically reauthenticates. If the period passes without reauthenticating to Secret Server, the dialog closes, the Connect dialog opens, and the user must reauthenticate through Connection Manager when reauthenticating to Secret Server.

≡		Ø – □ ×
	C Connections	
 Active Sessions Recent Shared With Me Favorites Connections Local Connections csdfdsfawewegg Ilya's folder Ilya's folder 2 Ron's folder Ilya's folder 2 Non's folder Ilya's folder 2 Non's folder Securent Personal Folders Add Some Folders AutoTestGroup 	2 Items NAME ↑ C Local Connection Ss-current Click "Cancel" to stop retrying the connect to ss-current Click "Cancel" to Secret Server Cancel Reconnect" to	Q
> C AutoTestGroup22		

Important: Reauthentication will not work if the session was launched via protocol handler from the browser. Connection Manager was designed to handle sessions that were launched in browsers, such as "Launch" and "Forget". In this case, Connection Manager does not have access to any Secret Server parameters, proxies or credentials not stored and not accessible after running sessions. This was done as a security measure. For Connection Manager to reauthenticate, it needs to have access to the secret, which is why it is recommended that users run sessions under Connection Manager.

Modifying a Vault

Existing connections to Secret Server can be modified. Most fields can be modified except for the Secret Server URL field:

- 1. On the Configuration menu, select Secret Server Connections. The Secret Server Connections window opens.
- 2. Click **Edit** next to the Secret Server connection to be modified. The Edit text is between the Connection name and the URL value. The Connection dialog box opens.

Edit Secret Server Connection

Step 1 of 3: Please, enter Secret Server parameters

Secret Server Name*	ss-current		
Secret Server URL*	https:/	//connmanagerss.thycotic.net/ss-current	
Authentication Type:		Local Username/Password Web Login	



Note: Users can make modifications to any of the fields here except for the Secret Server URL. If the *Remember me*: option was selected previously, the user will not be able to change the Username value either.

Input the Secret Server Name, URL and Authentication Type and click Next.

3. The system will prompt you to input your Username and Password credentials. Click **Connect** when finished.

Edit Secret Server Connection

Step 2 of 3: Please, enter your credentials

Username*	max	
Password*	•	
Domain		
Two Factor:	Select	two factor authentication that applies:
	\odot	None
	0	Pin Code
	0	Duo Push
	0	Duo Phone Call
	-	
Remember me-		Store credentials locally
Kemember me.		Store credentials locally
Launch automatically		
Ladition datematically		
Back		Cancel

4. Make any desired changes in Step 3 and click Finish.

Note: A user may modify template selections at any time by selecting Edit next to the Secret Server connection as shown below.

Edit Secret Server Connection

Step 3 of 3: Select secret server templates to use in this application

Searc	Search for Template Name			
	6 Selected			
\checkmark	Active Directory Account			
	Active Directory Account - Resticted Launch			
	Active Directory Account alternate			
	AD - List Launch			
	AD Different			
	Amazon IAM Console Password			
	Amazon IAM Key			
	Bank Account			
\checkmark	Cisco Account (SSH)			
	Cisco Account (Telnet)			
	Cisco Enable Secret (SSH)			
	Cisco Enable Secret (Telnet)			
	Cisco VPN Connection			
	Combination Lock			
В	ack Cancel Finish			

Removing a Vault

To remove a vault:

- 1. On the Configuration menu, select Secret Server Connections. The Secret Server Connections window opens.
- 2. Click the **Remove** text to the far right of the Secret Server connection to be removed. A warning prompt will ask you to confirm.

Secret Server Connections Add a Connection						
6	ss-current	t Edit	https://connmanagerss.thycotic.net/ss-current	Remove		
		This Secret S Are you sure ss-current	Server connection will permanently delete. that you wish to continue?			

Close

3. Click Yes to confirm.

Session Connections

This section contains information about:

- "Remote Systems " below
- "Integrated Connections" on page 81
- "Importing and Exporting Connections" on page 85

Remote Systems

This section contains information about:

- "Creating Connections" on the next page
- "Opening Connections" on the next page

- "Editing Local Connections " on page 76
- "Deleting Connections " on page 80
- "Duplicating Connections" on page 81

Creating Connections

Connection Manager allows users to create new connections to remote systems and store them locally. Secret Server secrets may only be viewed and initiated within Connection Manager.

All required fields and the appropriate optional fields must be filled out. If you choose not to enter a username and password, you will be prompted to enter this information when connecting. Many of the fields will have default values pre-entered. You may keep these values or modify them as appropriate.

- 1. From the Local connections section of the navigation tree, navigate to the folder where the new connection will be created.
- 2. Right-click the folder name and select New Connection followed by the connection type (RDP or SSH).

Depending upon the connection type (RDP or SSH), a dialog box will open. The options will vary based on the type of connection selected. View "Integrated Connections" on page 81 for additional information on credentials.

RDP Connection

- Connection Name: Enter a friendly name for the new connection.
- Computer Name: Enter the unique identifier for the computer name or IP address.
- Port: Enter the port number for the connection or leave default.
- **Credentials**: Select the appropriate credential for the new connection.

SSH Connection

- **Connection Name**: Enter a friendly name for the new connection.
- Computer Name: Enter the unique identifier for the computer name or IP address.
- Port: Enter the port number for the connection or leave default.
- **Credentials**: Select the appropriate credential for the new connection.

Note: The default value settings may be modified under the Configuration option.

- 3. Once all appropriate information is added, click Create to add the connection.
 - Important: Connection Manager does not support reauthentication for secrets enabled with proxies, checkout or session recording. If the connection to the server is lost, Connection Manager will terminate the session.

Opening Connections

The process of connecting to a Local connection or to a Secret from Secret Server is essentially the same.

- 1. Navigate to the remote connection. The remote session can be opened two ways:
 - In the main window, double-click the connection name. A new connection tab will open, or
 - Select the connection to open the Properties tab. In the bottom half of the Properties window there is a section that lists available Launchers for use. Click the desired launcher and the session will open.

Sessions launched from a Secret Server Secret may have workflows associated with the launching or closing of a session. If the connection requires no special workflow, the remote connection will be established as a new tab in the work area. If user entry is required for a workflow action, a window(s) will open prior to connecting so users can enter the appropriate or required data.

Note: When connecting to a Secret with an Allowed List, users will be prompted to enter a text value if the list is empty.

2. Select a launcher. For Secrets where multiple launchers are available, you are prompted to select one.

Launch Secret	
RDP10.10.200.69	
Select Launcher:	Remote Desktop 👻
	Cancel Launch Now

Click Launch Now.

3. Select a **Host** or **Machine ID**. For Secrets where a host is not specified, you are prompted to enter a host machine name into a search box. As soon as enough characters are typed to generate at least a partial match, Connection Manager returns matching machines.

Launch	Secret		
Host: *			
		Cancel	Connect

Click Connect.

4. Enter user credentials. For Connections or Secrets without an embedded username and/or password, a modal opens (based on launcher type) to enter credentials.

Please ente	r user name and password
User Name*	
Password	
	Cancel Continue

Click Continue.

Editing Local Connections

1. Navigate to the connection to be edited and click the connection name.

	Connections				
- Active Sessions	Local Connections			e	Q
Recent	6 Items			<u></u>	C × Harry's RDP Connection
✓ Shared With Me ✓ Favorites	NAME 1	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	Edit
Connections	Harry's RDP Connection	RDP	Local Connections		Computer Name ss-current
Local Connections Configuration	Ilya's connections	SSH	Local Connections		
✓ ☐ Ilya's folder	Il'ya's RDP connection	RDP	Local Connections		
ilya's folder 2	John's connections	SSH	Local Connections		
Ilya's folder 2	Max's connection	SSH	Local Connections		Launchers
Ilya's super secret folder ss-current	Ron's RDP connection	RDP	Local Connections		RDP
Personal Folders					
> 🛄 Max					
> 🗋 AutoTestGroup					
AutoTestGroup22 AutoTestGroup33 Configuration					

2. In the Connection properties area under the connection name, click **Edit**. An Edit dialog will open depending on the connection type.

Edit Remote Desktop Connection

General	Windows Mode	Local Resources
		N
GENERALC	ONNECTION INFORM	ATION &
Connectior	Name*	oscar normandy
Computer 1	Name*	10.10.10.10
		Enter a computer name or IP address
Port*		3389
Credentials	5*	None 👻
		Cancel Save

In the Local Resources tab, you can edit the resources for RDP connections:

Edit Remote Desktop Connection		
General Window	ws Mode Local Resources	
Local Devices	Select resources to use in remote session: Printer Drives Specify Drives Clipboard Smart Cards	
Windows Shortcuts	Only when using the full screen	•
Audio Playback	This Computer	•
Audio Recording		
	₽ N	
	Cancel Save	

For SSH connections, you will see the following window:

General	Advanced	Private Key File Tunnels	
GENERALC	ONNECTION INFO	DRMATION	
Connection	n Name*	pscar normandy	
Computer I	Name*	10.10.10.10	
		Enter a computer name or IP address	
Port*		22	
Credentials	5*	None	
			6

In the Advanced tab, you can edit the color schema and font size:

Edit Secure Shell (SSH) Connection				
General Advanced	Private Key Fi	le Tunnels		
Remote Character Set	Unicode (UTF-	-8)	•	
Font	Courier New	1	•	
Font Size	8 🔻			
Set Local Colors		Presets	Default 💌	
Background Color		Bold Color		
Foreground Color		Underlined Color		
		Cancel	Save	

- 3. Modify the fields as desired. (Most values in a local connection may be edited, except the required fields and the username field.)
- 4. Click **Save** when finished.

Deleting Connections

A Local connection may be deleted from Connection Manager

Important: This action is NOT reversible. Once a connection is deleted it cannot be recovered.

- 1. Navigate to the connection to be removed.
- 2. Right-click the connection and select **Delete**. A confirmation modal opens.

≡				0	– 🗆 🗡
	Connections				
♪ Active Sessions	Local Connections		•		Q
S Recent	6 Items		<u></u>		с×
Shared With Me				Edit	
Savorites	NAME 🔨	CONNECTION TYPE FOLDER PATH	SECRET TEMPLATE		
Connections	Harry's RDP Conn			ss-current	
Local Connections	lluc's consistions				
csdfdsfawewegeg	liya's connections	I his connection will be permanently deleted. Do you wish to continue?			
~ 🗋 Ilya's folder	ll'ya's RDP connec	,			
ilya's folder 2	John's connection	Harry's RDP Connection			
C Ron's folder				Laupchore	
🗋 Ilya's folder 2	Max's connection	No			
🗋 Ilya's super secret folder	Ron's RDP connec			RDP	
ss-current					
~ 🗋 Personal Folders					
> 🗀 Max					
> 🗋 Add Some Folders					
> 🗋 AutoTestGroup					
> 🗅 AutoTestGroup22					
Configuration					

3. Click **Yes** to confirm.

Duplicating Connections

- 1. Navigate to the connection you wish to duplicate and right-click the connection.
- 2. From the right-click context menu, click Copy. The connection is copied to your clipboard.
- 3. Right-click the Connection Manager screen and from the context menu, click **Paste**. The duplicate connection is added to the connections on the Connection Manager screen.
- 4. Edit the Connection name and other parameters as desired.

Integrated Connections

When logging into Connection Manager, if there are no existing Secret Server connections, a user will be directed to the Create a Secret Server Connection dialog box as shown in the Authenticate to Secret Server section.

Credentials

Users can apply credentials directly to new folders and connections and at the same time, ensure all sub-folders inherit the same credentials.

None: Allows a user to create new folders and connections without any credentials - i.e. no username and password values. This can be changed later.

Local Credentials: Allows a user to apply username and password credentials to the new folder or local connection.

CONNECTION CREDENTIALS	
User Name	
Password	

Inherit from Folder: Allows a user to apply credentials or a secret to a folder or connection to imitate the folder in which it will reside, or any sub-folders or connections created within it. While making the connection, if a connection already exists, it will be displayed.

CONNECTION CREDENTIALS	
Inherit from folder	Local Connections/II'ya's new folder
Credential	harry.potter

• Map Secret: Allows a user to apply secrets to the new folder or connection.

CONNECTION CREDENTIALS	

Secret*

Select Secret

Map a Vault Secret to a Folder

Connection Manager gives a user the ability to map secrets directly to folders.

Note: The process is the same whether the connection is RDP or SSH.

Important: For mapped secrets with a proxy enabled, Connection Manager selects the target host from the local secret. In previous versions, the target hosts were selected from the secret on the server.

- 1. From within Connection Manager, create a new folder or edit an existing folder. The Create a Remote Desktop Connection dialog box opens.
- 2. Enter the **connection name**, **computer name**, **port**, and from Credentials, select **Map Secret**. The Select Secret dialog box opens.

Select Secret

		Q
Ê s	ss-current	O1 Need to Checkout ss-current/Personal Folders/Max/01 Need to Checkout
> > >	Personal Folders Add Some Folders AutoTestGroup AutoTestGroup22 AutoTestGroup33	 1 Check Out workflow ss-current/Personal Folders/Max/Worflow secrets/1 Check Out workflow 111 - Request Access/Approval Workflow ss-current/Personal Folders/Max/Worflow secrets/111 - Request Access/Approval Workflow 192.168.11.225 ss-current/192.168.11.225
>	Empty Folder Test Folder With A Sub KLNK	192.168.11.225RDP connection555 ss-current/Personal Folders/Max/RDP/192.168.11.225RDP connection555 2 ss-current/Personal Folders/Max/2
>	Resting Folder 05/20/2019 View Only Folder	 3 workflow - require approval+doublelock 3 workflow - require approval+doublelock 3 wf ra dl rc

The Select Secret dialog box shows the currently existing connections. Those that are authenticated and accessible, are shown with an open lock next to the name. A closed lock indicated authentication is required, generally a username and password. Users can drill-down the navigation tree to access more folders.

Users may also search for a secret by name using the search bar at the top of the Select Secret window. Clicking on a connection and then typing in the search box will search only the folders within that connection.

Select

Cancel

3. Click the **Secret** to which you would like to map and click **Select**. The name of the secret will now appear within the Create a Remote Desktop Connection dialog box under Connection Credentials.

CONNECTION CREDENTIALS	
User Name	
Password	

4. Once all required information is entered, click Create.

Map a Vault Secret to a Connection

Connection Manager gives a user the ability to map secrets directly to connections.

Note: The process is the same whether the connection is RDP or SSH.

- Important: For mapped secrets with a proxy enabled, Connection Manager selects the target host from the local secret. In previous versions, the target hosts were selected from the secret on the server.
- 1. From within Connection Manager, go to "Creating Connections" on page 73 or "Editing Local Connections" on page 76. The Create a Remote Desktop Connection dialog box opens.
- 2. Enter the **connection name**, **computer name**, **port**, and from Credentials, select **Map Secret**. The Select Secret dialog box opens.

Select Secret

	Q
 Ss-current Personal Folders Add Some Folders AutoTestGroup AutoTestGroup22 AutoTestGroup33 Empty Folder Test Folder With A Sub KLNK Resting Folder 05/20/2019 View Only Folder 	 O1 Need to Checkout ss-current/Personal Folders/Max/01 Need to Checkout 1 Check Out workflow ss-current/Personal Folders/Max/Worflow secrets/1 Check Out workflow 111 - Request Access/Approval Workflow ss-current/Personal Folders/Max/Worflow secrets/111 - Request Access/Approval Workflow 192.168.11.225 ss-current/Personal Folders/Max/RDP/192168.11.225RDP connection555 2 ss-current/Personal Folders/Max//2 3 workflow - require approval+doublelock /3 workflow - require approval+doublelock 3wf ra dl rc /3wf ra dl rc A Doublelock+request comment ss-current/A Doublelock+request comment AA_W4
	cancel Select

The Select Secret dialog box shows the currently existing connections. Those that are authenticated and accessible, are shown with an open lock next to the name. A closed lock indicates authentication is required, generally a username and password. Users can drill-down the navigation tree to access more folders.

Users may also search for a secret by name using the search bar at the top of the Select Secret window. Clicking on a vault and then typing in the search box will search only the folders within that vault.

- 3. Click the Secret to which you would like to map and click Select.
- 4. Click Save.
- 5. Your secret is now mapped to a connection.

Importing and Exporting Connections

This section contains information about:

- "Exporting Connections" below
- "Importing JSON Files" below
- Importing Devolution Files" on page 88
- Importing RDG Files" on page 90
- "Importing RDP Files" on page 91
- "Importing CSV Files" on page 95

Exporting Connections

Export allows users to export all local connections. When a folder is selected, the contents of that folder, along with any subfolders (and their contents), are included in the export file.

To initiate an export, follow these steps:

- 1. On the Navigation menu, click the **desired folder or connection** under the Local connection section. Alternatively, the Local Connection or folder may be selected in the main window.
- 2. Right-click and select **Export**. The **Select file to export** window opens.

≡		Ø – □ ×
	Connections	
▲ Active Sessions	Local Connections	Q
Recent	I Selected ② 品 / 米 □ ↓ □	<u>•≏</u> ~.
Shared With Me	NAME Select file to export	
Connections	Harry's R	
 Local Connections Csdfdsfawewegeg 	V Ilya's con	
∼ 🗋 Ilya's folder	Il'ya's RD	
🗋 ilya's folder 2	John's co Browse	
🗋 Ilya's folder 2	Max's co Export Password(s):	
Ilya's super secret folder ss-current	Ron's RD Cancel Export	
~ 🗀 Personal Folders		
> 🗀 Max		
> 🛅 Add Some Folders		
> 🗋 AutoTestGroup		
> 🗋 AutoTestGroup22		
AutoTestGroup33		

3. Click Browse and enter the location and file name for export.

Note: If Export Password(s) is selected, passwords for the connections are exported in clear text.

4. Click **Export** to complete the action.

Importing JSON Files

The Import option is only available for Local connections and can only be accessed from the Navigation tree.

To initiate an import, perform the following:

- 1. On the Connection Manager navigation tree, select the Local Connection folder to which the contents should be imported.
- 2. Right-click and select Import. A file browser window opens.
- 3. Navigate to the location of the .JSON file containing the content for import.
- 4. Select the .JSON file and click **Open**. The Connections are imported.

JSON Example

The contents of any Export or Import file is in JSON format. The following is an example of the formatting:

```
{
 "SchemaVersion": "1.0",
 "Folders": [
  {
   "ld": "abcde123-456f-7890-12g3-456h78ij9kl0",
   "Name": "Folder1"
  },
  {
   "Id": "bgh9fkf5-771s-6218-6v8-z2ph441w0rr2",
   "ParentFolderId": " abcde123-456f-7890-12g3-456h78ij9kl0",
   "Name": "SubFolderA"
  },
    }
 ],
 "Secrets": [
  {
   "Name": "Connection1",
   "Type": "Rdp",
   "ParentFolderId": " bgh9fkf5-771s-6218-6v8-z2ph441w0rr2",
   "ComputerName": "MachineName".
   "Port": "3389",
    "UserName": "UserA"
  __Password": "PasswordInClearText"
  },
 ]
}
```

Note: The red text for the password field indicates that this part of the JSON file will only be included if the Export Password(s) option is used.

Importing Devolution Files

Connection Manager supports the import of Devolution files. To import a Devolution file:

- 1. Right click on Local Connections
- 2. Hover over Import and select Devolutions file

\equiv							⊘ – □ ×
<mark>ئ</mark>	Connection M	anager	Connections				
- \	Active Sessions		Local Connections			•	Q
Ö	Recent		0 Items				łił
7	Shared With Me		NAME 1	CONNECTION T			
쇼	Favorites		NAME 1	CONNECTION I	IFE FOEDERFAIN		
_ 🖸	Connections						
\odot	Local Connectio	ine					
		Launch Conn	ection(s)				
		Create SSH C	roup				
		New Folder					
		Edit					
		New Connec	on 🔸				
		Conv					
		0000					
		Cut					
		Paste					
		Delete					
		Export					
		Import	 Connection 	Manager (.json)			
		Collapse	CSV file (.cs	0			
	l,		RDP files (rr	(n)			
			RDP IIIes (10	(-)			
			RDCMan file	(.rog)			
	antio vetine	,	Devolutions	file (.csv)			
1,57	Johngurdulun	<pre></pre>					

3. A dialog window will appear. Select the files you would like to import.

Session Connections

Connection Manager	Connections					⊘ – □ >
Active Sessions	Local Connections 0 Items				0	へ ††
 Shared With Me Favorites Connections Local Connections 	NAME ↑	CONNECTION TYPE E	CONNECTION TYPE FOLDER DATH This PC > Downloads ~			×
	Organiz 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 4 Cristina 1 Cristina Cristi	e v New folder ttachments esktop ocuments Count of the second	Date modified 6/22/2023 8:41 AM	Type Siz	e	Đ
	ی چے ۲۵ ۱۹ ایس		6/1/2023 9:45 AM	Shortcut	1 KB	
	Desktop Downlea Desktop Downlea Dewnlea Pictures Pictures Pictures Pictures	esktop Conning ocuments ownloads lusic lictures ideos ocal Disk (C)	40.637,6043,6749 PM	File Tolder		
		File name: EntryList			CSV Files (*.csv)	

4. After the import is complete, a confirmation window will appear that the import was successful.

≡				⊘ – □ ×
Connection Manager	Connections			
Active Sessions	Local Connections		Θ	Q
C Recent	1 Items			łţł
 Shared With Me Favorites 	NAME 1	CONNECTION TYPE FOLDER PATH		
Connections	RDP	RDP Local Connections		
Local Connections				
		Import completed. 1 objects imported successfully. View more CK		
Configuration <				

5. Click **OK** to return back to your Local Connections.

Note: When exporting connections from Devolutions, do not click Export All Host Lists. Instead, click Export Vault from the Export Special list.

Session Connections

Naviga	©			Remote Desktop Manager
tion	Lock Application		Export Special	
	🍖 My Data Source Information	Export Vault (.rdm)	Export Vault (.csv)	
	Devolutions Account	Export Vault (,son)	Export Vault (.html)	
	් Badup	Export All Host List (.csv)	Export Vault (.xml)	
			Export Yauli's Documents	
	C Refresh		Export "My Personal Credentals" (.rdm)	
	🐚 Data Sources			
	of Background Services			
	🖁 My Account Settings			
	Manage Password			
	Import		k	
	🔀 Export			
	Templates			
	E Options			
	Ext			

Importing RDG Files

Connection Manager supports the import of RDG files. To import an RDG file:

- 1. Right click on Local Connections
- 2. Hover over $\ensuremath{\mathsf{Import}}$ and select $\ensuremath{\mathsf{RDG}}$

								⊘ – □ ×
63	Connection Mar	nager	Connections	5				
-~-	Active Sessions		Local Con	nections			•	Q
()	Recent		5 Iter	ms				ᆉᆉ
7	Shared With Me		NAM	F 1	CONNECTION TYP	E FOI DER PATH		
公	Favorites				00112011011111			
ď	Connections		10.10.	202.30	RDP	Local Connections		
\odot	Local Connections			nnection	RDP	Local Connections		
A	ss-current	Launch Cor	nnection(s)					
A	ss-current	Create SSH	Group	's connection	SSH	Local Connections		
		New Folder		ection	RDP	Local Connections		
		Edit						
		New Conne	ction	nection	SSH	Local Connections		
		Сору						
		Cut		Connection Manag	ger (.json)			
		Paste		CSV file (.csv)				
		Delete		RDP files (.rdp)				
Connect Connect Connect Connect Connect Connect Connect Connect Connect Connect Ss-curre Connect Ss-curre Connect Ss-curre Connect		Export		RDCMan file (.rdg)				
		Import		Devolutions file (.c	sv)			
6	Configuration	Collapse						

2. A dialogue window will appear. Select the files you would like to import.

		0 – D ×
Connection Manager	Connections	
Active Sessions	Local C 🗟 Open X 🔁	Q
Shared With Me		ŧīŧ
Favorites	NA Organize Vew folder	
Connections	10. This PC / Today (1)	
Local Connections	Ha > Desktop RDG File	
ss-current	He → Downloads He → Downloads V Earlier this year (6) → Downloads → Downloads	
 Configuration 	Qpen Cancel	_

3. After the import is complete, a confirmation window will appear that the import was successful.

	⊘ – □ ×`
Connection Manager	
Active Sessions Local Connections	Q
S Recent 5 Items	łţł
Image: Shared With Me NAME ↑ CONNECTION TYPE FOLDER PATH	
Connections 10.10.202.30 RDP Local Connections	
O Local Connections	
ss-current Import completed.	
A ss-current Hermione's conner 1 objects imported successfully. View more	
Ilyas connection OK	
Ron's connection	
Onfiguration <	

Click OK to return back to your Local Connections.

Importing RDP Files

Connection Manager support the import of RDP files. To import an RDP file:

- 1. Right click on Local Connections
- 2. Hover over $\ensuremath{\mathsf{Import}}$ and select $\ensuremath{\mathsf{RDP}}$

Ξ								Ø – □ ×
6Ĵ	Connect	ion Manager	🖸 Conn	ections				
~	Active Se	ssions	Loca	al Connections			•	Q
Ū	S Recent			6 Items				łtł
	Shared W	ith Me		NAME 1	CONNECTION TYPE	FOLDER PATH		
и П	Connecti	ons		10.10.202.30	RDP	Local Connections		
0	Local Cor	Launch Connection	(s)	0.10.202.30	RDP	Local Connections		
	ss-currer	Create SSH Group		larry's connection	RDP	Local Connections		
		New Folder		lermione's connection	SSH	Local Connections		
		Edit		yas connection	RDP	Local Connections		
		Сору		on's connection	SSH	Local Connections		
		Cut		Connection Manager (.json)				
		Paste		CSV file (.csv)				
		Delete		RDP files (.rdp)				
		Export		RDCMan file (.rdg)				
		Import	₿ .	Devolutions file (.csv)	1			
63 (Configurati	Collapse						

3. A new window will appear. Click **Browse** to start selecting RDP files to import.

Import RDP files (.rdp)

Select RDP files



4. Select all of the RDP files that need to be imported and click Finish

Import RDP files (.rdp)

Select RDP files

C:\Users\ilyus\Downloads\RDP Test.rdp	Remove
	Browse



5. A confirmation window will appear that the import was successful.

Session Connections

		⊘ – □ ×
Connection Manager	Connections	
Active Sessions	Local Connections	Ð
C Recent	7 Items	łţł
A Shared With Me		
☆ Favorites	NAME T CONNECTION TYPE FOLDER PATH	
Connections	10.10.202.30 RDP Local Connections	
Local Connections	1010 202 30	
Ss-current	Import completed.	
Ss-current	10.10.202.30 1 objects imported successfully. View more	
	Harry's connectic OK	
	Hermione's connection SSH Locar Connections	
	Ilyas connection RDP Local Connections	
	Ron's connection SSH Local Connections	
	Δ	
Configuration <	νζ	

6. Click OK to return back to Local Connections.

Importing CSV Files

Connection Manager allows the import of Connection Manager .JSON, CSV, and RDP files for local connections data.

This example is for CSV file imports.

- 1. Right-click on Local Connections.
- 2. Select Import.

≡							Ø	– 🗆 ×
	ON MANAGER	C Co	nnections					
- ∧ Active Se	essions	Lo	cal Connections			e		Q
C Recent	Uthe Max		6 Items					<u></u>
Favorites	a and a second sec		NAME 1	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	CONNECTION SOURCE	LAST
Connecti	ions		Harry's RDP Connection	RDP	Local Connections		Local Connections	
	unch Connection (s)		Ilya's connections	SSH	Local Connections		Local Connections	
~ 🗀 IIy Cri	reate SSH Group		Il'ya's RDP connection	RDP	Local Connections		Local Connections	
	ew Folder lit		John's connections	SSH	Local Connections		Local Connections	
D IIy Ne	IV New Connection	•	Max's connection	SSH	Local Connections		Local Connections	
Co ⊪y _{Co}	ppy		Ron's RDP connection Connection Manager (.json)	RDP	Local Connections		Local Connections	
~ [] P(iste		CSV file (.csv)					
	elete		RDP files (.rdp)					
> 🗅 AL EX	port		RDCMan file (.rdg)					
> 🗅 Ai 🛛 Imj	iport	•	Devolutions file (.csv)					
Config	ollapse							

3. Select from the import options available based on your source file.

Import Local Connections

The following example shows what to expect when importing local connections via CSV file into your Connection Manager instance.

- 1. In Step 1 of 2 of the Import process,
 - a. select the file to import,
 - b. specify the connection type, and
 - c. select which Delimiters are used in the import file, the default is comma separated.

CSV File*				Province	
	6			browse	
connection type					
Delimiters	۲	Comma (,)			
	0	Tab			
	0	Semicolon (;)			

2. Click Next.
Import from a CSV file

Step 2 of 2: Please, enter mapping



By default Connection Manager maps the data from the import file to field mappings for the local connection information. Any data not recognized/mapped is indicated as unmapped and duplicate mappings are highlighted red. These potential errors can be fixed prior to the import.

3. Click Finish.

Session Connections

	Connections					
▲ Active Sessions	Local Connections			•		0
 Recent Shared With Me 	10 Items					<u>م</u>
Favorites	NAME 个	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	CONNECTION SOURCE	LAS
Connections	Harry's RDP Connection	RDP	Local Connections		Local Connections	
Local Connections csdfdsfawewegeg	Ilya's connections	completed		1	Local Connections	
> 🗋 folder with local creds insid	Il'ya's RDP connect 12 obje	ects imported successfully.			Local Connections	
> folder with mapped secret > folder with only password	John's connection		ОК		Local Connections	
> 🗋 folder without creds	Max's connection	SSH	Local Connections		Local Connections	
Il'ya' Folder	RDP	RDP	Local Connections/folder wi		Local Connections	
 Ilya's folder 2 	RDP	RDP	Local Connections/folder wi		Local Connections	
🗋 II'ya's new folder	RDP	RDP	Local Connections/folder wi		Local Connections	
Ss-current	RDP	RDP	Local Connections/folder wi		Local Connection/Not Ex.	
> D Personal Folders	Ron's RDP connection	RDP	Local Connections		Local Connections	
Configuration						

Each connection in the file is imported as a Local Connection. Links to informational or error reports will be displayed, but only if the import encountered errors or if it automatically mapped fields during the import.

4. To further examine which information failed to import, click View more....

F	File Ho	ome Ins	ert D	raw Page	Layout F	ormulas	Data Re	eview Vi	iew Help	Q	Tell me what	t you want i	to do			- 1 10					Q₄ Share
P.	aste	Calibri B I	<u>U</u> ~	• 11 • ⊞ • <u>⊅</u>] A* A* = * <u>A</u> * =	= = =	& ✓	eb Wrap Te ∰ Merge 8 ent	xt کارکو Center ۲	General \$~	l % * 5	▼ 0 .00 F	Conditional ormatting ~	Format as Table ~ 3	Cell Styles ~	Insert Delet	e Format	∑ AutoSu ↓ Fill ~ ♦ Clear ~	m × A Sort & Filter Editing	k Find & Select ~	_
	5 · c	· 🔒 ·	Ŧ																		
A	1	•	× ✓	f _x N	lame																~
	A	В	с	D	Е	F	G	н	I.	J	к	L	м	N	0	Р	Q	R	S	т	U 🔺
1	Name	Host nam	Port	Usernan	ne Password	Custom w	Custom h	Auto expa	Color dep	Sharing c	li Sharing le	o Sharing	lo Sharing l	o Audio	Audio	rec Errors	Errors	Errors	Errors	Errors	Errors
2	3	3	3 33	89 EAM05\	ad pbdaemo	1600	1200	FALSE	16	FALSE	TRUE	FALSE	FALSE		2 FALS	E Compute	er Name sh	ould be a v	alid hostn	ame or IP	address
3	4	4	4 33	89 EAM05\	ad pbdaemo	1440	900	FALSE	32	TRUE	TRUE	TRUE	TRUE		2 FALS	E Comput	er Name sh	ould be a v	alid hostn	ame or IP	address
4	1notinhe	1notinhe	r 33	89 EAM05\	ad pbdaemo	800	600	FALSE	8	FALSE	FALSE	FALSE	FALSE		2 FALS	E Color de	p Color de	Color de	Color dep	Color de	p Color
5	2inheritfr	2inheritf	n 33	89 EAM05	ad pbdaemo	800	600	FALSE	8	FALSE	FALSE	FALSE	FALSE		2 FALS	E Color de	p Color de	Color de	Color dep	Color de	p Color
6																					
7																					
8																					
~																					

Connection Manager saved the connection data that failed to import in a separate Excel file. The data can be edited and the file can be used to retry the import for the remaining connections.

5. Back in the Connection Manager UI, click OK to close the Import completed window.

Example of Step 2 of 2 window showing errors:

Import from a CSV file

Step 2 of 2: Please, enter mapping

Has Headers	✓			
Parameter	CSV Field		< Example >	
Connection Name*	URI	•	SS Con 1	
Computer Name *	URI	•	SS Con 1	
Port	Port	•	27	
Credentials	Unmapped	•		
User Name	Unmapped	•		
User Domain	Unmapped	•		
Password	Unmapped	•		
Desktop Width	Unmapped	•		
Desktop Height	Unmapped	•		
Auto Expand	Unmapped	•		
	L			



Field Values and Types

Note: The CSV import file does not need to include all of the fields shown below.

Name	Туре	Applies to	Values
Connection Name (required)	String	RDP, SSH	
Computer Name (required)	String	RDP, SSH	
Port	Number	RDP, SSH	1 - 65535
Credentials	Enumeration: 0,1,2	RDP, SSH	0 - None 1 - Inherited 2 - Embedded
User Name	String	RDP, SSH	
User Domain	String	RDP, SSH	
Password	String	RDP, SSH	Cleartext
Desktop Width	Number	RDP	
Desktop Height	Number	RDP	
Auto Expand	Boolean	RDP	TRUE FALSE Or 10
Color Depth	Number	RDP	15 16 24 32
Run As Admin	Boolean	RDP	
Clipboard	Boolean	RDP	
Drives	Boolean	RDP	
Printer	Boolean	RDP	
Smart Cards	Boolean	RDP	
Audio Playback	Enumeration: 0,1,2	RDP	0 - Use local computer 1 - Disabled 2 - Use remote computer
Audio Recording	Boolean	RDP	

Name	Туре	Applies to	Values
Remote Character Set	String	SSH	
Font	String	SSH	
Font Size	Number	SSH	1-72
Connection Type	Enumeration: 1 - RDP, 2 - SSH		1 - RDP 2 - SSH

Desktop Size

The following combinations of Desktop Width/Desktop Height are valid (if combination is not valid, the default value is used):

//4:3 resolutions

- 640x480
- **800x600**
- 960x720
- 1024x768
- 1280x960
- 1400x1050
- 1440x1080
- 1600x1200
- 1856x1392
- 1920x1440
- 2048x1536

//16:10 resolutions

- 1280x800
- 1440x900
- 1680x1050
- 1920x1200
- 2560x1600
- 2880x1800

//16:9 resolutions

Global Configuration Settings

- 1024x576
- 1152x648
- 1280x720
- 1366x768
- 1600x900
- 1920x1080
- 2560x1440
- 3840x2160
- 7680x4320

Import Completed Reports

Imports and trigger none, one, or up to two reports.

Import completed.	
2 objects imported successfully. View more 2 objects did not import. View more	
	ок

- Successful: This report lists all objects that have been successfully imported.
- Not imported: This report lists all objects that failed to import. The report can be used to remediate the import issue(s) and the remaining connections can be reimported.

CSV Import Differences

If you are working with Devolutions type connection .csv files, do not use the standard .csv import option. Devolutions .csv files require a different mapping scheme than standard .csv. Connection Manager only imports RDP/SSH connections from Devolutions. Imports of "Folders", "Workstation", or "Domain" data returns a "Import failed. Invalid file format" message.

Global Configuration Settings

Using global configuration settings, a user can set default values to be used for new local connections, connections made directly from Secret Server, and connections made when Connection Manager is acting as a protocol handler.

Global configuration settings can be changed (over-ridden) on individual connections, and those override settings will not be impacted by subsequent changes to global configuration settings.

Global configuration settings do not impact existing local connections, even if they were exported and imported.

Connections from Secret Server do not support all available parameters. In such cases the default parameters are substituted.

On the Configuration menu, click **Global Configurations**. The Global Configurations dialog box opens to the **RDP Global Settings** tab, where you can configure settings such as **Desktop Size**, **Color Depth**, and **Local Devices**.

Windows Shortcuts

The Windows Shortcuts field can be set individually or in bulk and offers the following three options:

- On this computer: Windows shortcuts will execute on the local computer.
- On the remote computer: Windows shortcuts will execute on the remote computer.
- Only when using the full screen: Windows shortcuts will execute on the remote computer only when you are in full-screen mode.

Global Configurat	tions
RDP Global Settings	SSH Global Settings Preferences Launcher Settings
Initial Size	Auto 👻
Auto Resize	
Color Depth	True Color (24 bit)
Run As Admin	
Local Devices	Select resources to use in remote session:
	Clipboard Smart Cards
Windows Shortcuts	Only when using the full screen
Audio Playback	This Computer 👻
Audio Recording	
	Cancel Save

On the SSH Global Settings tab, you can configure settings such as Font and Font Size. You can choose one of the Color Presets or you can create a Custom color scheme by changing the individual values for Background Color, Foreground Color, Bold Color, or Underlined Color.

Important: These settings will be applied to all of your vault connections. If you would like to adjust the settings for local connections, see "Editing Local Connections " on page 76.



On the **Launcher Settings** tab, administrators can choose to use the Connection Manager protocol handler or the legacy protocol handler, Secret Server Launcher. Users can also switch between the two protocol handlers. If both protocol handlers are installed and the administrator uninstalls one of them, the other protocol handler will register itself as the protocol handler for all users on installation.

Global Configurations

000	01		O	
RDP	GIC	bai	Setti	nas
1.1001			0000	

SSH Global Settings

Preferences

Launcher Settings

Protocol Handler

Connection Manager	•
Connection Manager	
Secret Server Launcher	



Globally Enforced Secret Server Settings

The following settings can be configured in Secret Server and will be applied globally for any Connection Manager application that is connected to it.

To access this in Secret Server:

Global Configuration Settings

- 1. Navigate to Admin | See All.
- 2. Select Tools & Integrations.

α 🏢 (

What are you looking for?



These options are by default enabled:

- Allow Local Connections Allows or disables saving credentials for any Local Connections. The default is Yes.
- Allow Saving Credentials Allows or disables saving credentials for any Secret Server connections. The default

Global Configuration Settings

is Yes.



If Connection Manager is connected to multiple Secret Server Instances, and those instances have different values for these new settings, then Connection Manager will always use the more secure option set for security purposes. For example, if Connection1 allows Local Connections, and Connection2 does not allow Local Connection, then Connection Manager will not allow Local connections at all.

If "Allow Local Connections" is set to "off" and user imports local connection(s), credentials are not imported but the local connections are created.

Create a Remote Desktop Connection

General Windows Mode Local Resources

GENERAL CONNECTION INFORMATION

Connection Name*	
Computer Name*	Enter a computer name or IP address
Port*	3389
Credentials*	None 🔻

If you already have Local Connections saved, and the **Allow Local Connection** option is disabled, then the next time the Secret Server instance is connected to the Connection Manager instance we will prompt the user that the Local Connections will be deleted. If they agree, then Secret Server connects and the local connections are deleted. If they say No, then we prevent Secret Server from connecting.

Cancel

Create

The behavior is the same for saving credentials when setting the Allow Saving Credentials flag.

When creating or editing a Remote Desktop Connection, you can select and map the local drives you wish to share. On the **Local Resources** tab, click **Drives** and then click **Specify Drives**. Select the drives you wish to map and deselect any drives you don't want to map. If you choose to map all available local drives, the **Drives** box displays a check mark. If you decide to map only some of the available local drives, the **Drives** box displays a dash.

Global Configuration Settings

	Connections	Edit Remote Des	ktop Connection				0 – L	гx
Active Sessions	Local Connec	General Window	vs Mode Local Resources	_			Q	L
Omega Recent ✓ Shared With Me ☆ Favorites ✓ Connections ✓ Local Connections	1 Items NAME Ilyas con	Local Devices	Select resources to use in rer	note session: Drives Specify Drives Smart Cards	ST TEMPLATE	Ilyas connection Edit Computer Name 188.163.72.94	GX	
ss-current Personal Folders Add Some Folders Add Some Folders AutoTestGroup AutoTestGroup22		Windows Shortcuts Audio Playback	Only when using the full : This Computer	Local Drives Choose local drives to share C:\ C:\				
AutoTestGroup33 Empty Folder Test Folder With A Sub KLNK Resting Folder 05/20/2019		Audio Recording			Cancel	ОК		
View Only Folder				Cancel Save				

Using a Custom Logo in the Connection Manager Interface

In Connection Manager version 1.6.0 and higher, you can substitute the default logo in the Connection Manager interface with your own company branded logo using either of the two procedures below.

Manual Procedure

- 1. Create two versions of your logo image file in PNG format, with names exactly as specified below:
 - One sized to 250 x 50 pixels, named logo.png. This version is the full-sized logo that will appear in the main interface.
 - One sized to 100 x 50 pixels named logo_collapsed.png. This version is the collapsed logo that appear when the left navigation panel is collapsed
- 2. Store both image files in the following location (if you don't have this folder structure already, you'll need to create it): C:\ProgramData\Delinea\Connection Manager\Resources\
- 3. Assign all users permissions to read, execute, and list folder content from this location.
- 4. Restart Connection Manager

Command Line Procedure

Users with administrator privileges can specify the location of custom logo files during installation by running the following command:

```
Delinea.ConnectionManager.WindowsInstaller /quiet RUNCM=runCM KEYS="-logo
C:\install\logo.png -logocollapsed C:\install\logocollapsed.png"
```

Protocol Handler Approved URLs

When launching protocol handler, Connection Manager checks the source URLs of the Secret Server that launched the secret. If a user does not have a previously approved URL, Connection Manager will display a message requesting the user to either approve of deny approval URL and the system will automatically remember this selection for future use.



Connection Managerwill not run secret from denied SS URLs. If the user denied the SS url by mistake, and wants to fix this issue, they should delete the ApprovedSsUrlStorage.dat file located in the application's data folder (reload application).

Desktop Size and Auto Expand

In the Global RDP Settings, users are able to select either a fixed desktop size or an automatic one

Global Configurations



Global Configurations

RDP Global Settings	SSH Global Settings	Preferences	Launcher Settings
Initial Size	Auto		•
Auto Resize			
Color Depth	True Color (24 bit)		•
Run As Admin			
Local Devices	Select resources to use i	n remote session:	
	PrinterClipboard	Drives Drives Smart Cards	Specify Drives
Windows Shortcuts	Only when using the f	full screen	•
Audio Playback	This Computer		•
Audio Recording			
\searrow			
		Cancel	Save

Note: Auto Resize is not supported on target systems running Windows Server 2012 or older.

Important: Auto resize is unavailable on macOS when proxy is enabled. Full screen mode is also unavailable for proxied connections launched via protocol handler.

The table below should be used as a guide into how an RDP session will be displayed depending on the chosen desktop size. The following settings are applicable for both Local and Global RDP connections.

Initial Size	Auto Resize	Connect	Expand	Shrink
Auto	Yes	Fill CM window	No rescale, border	Rescale image, no scrollbars
Auto	No	Fill CM window	No rescale, border	No rescale, scrollbars
Fixed	Yes	Fixed size, border	Fixed size, border	Rescale image, no scrollbars
Fixed	No	Fixed size, border	Fixed size, border	No rescale, scrollbars

Note: If RDP proxy is ON, no reconnect will be attempted because RDP proxy requires a one time password and it is impossible to reuse the same credentials to reconnect.

Launchers

Connection Manager can act as a protocol handler, which means that Connection Manager can launch Secret Server Secrets that use other Launcher types directly from the Connection Manager UI. Connection Manager supports any launcher that is supported by Secret Server and includes, but is not limited to: PowerShell, CmdLine, MS Word, Notepad, Excel. These launchers also support opening a tab in Connection Manager, session recording, and workflows.



Note: ActiveX components will not be recorded.

Important: Connection Manager cannot launch secrets created with the Web Password Filler template inside the application itself, but can launch such secrets via web launcher.

=					◎ – □
	Connections				
Active Sessions	ss-current > Personal Folders > Max				۹ ۵
C Recent	52 Items All Templates			C ≈	C X
Shared With Me Favorites	NAME 个	SECRET TEMPLATE	FOLDER PATH	CONNECTION SO	Edit
Connections	T3 - test andy - secret	Active Directory Acc	ss-current/Personal Folders	ss-current	10.10.200.97
 Local Connections Csdfdsfawewegeg 	T3-andy	Windows Account	ss-current/Personal Folders	ss-current	Username .\Administrator
> 🛅 Ilya's folder	T3-XXX-andy - T3	Active Directory Acc	ss-current/Personal Folders	ss-current	Password
 Ilya's folder 2 Ilya's super secret folder 	test	Active Directory Acc	ss-current/Personal Folders	ss-current	Launchers
ss-current	TestADSecret	Active Directory Acc	ss-current/Personal Folders	ss-current	Remote Decision
Personal Folders Add Same Folders	TestingEventSubscription	Active Directory Acc	ss-current/Personal Folders	ss-current	PuTTY-SSH
> C1 AutoTestGroup	testss	Active Directory Acc	ss-current/Personal Folders	ss-current	Powershell Launcher
> AutoTestGroup22	🔲 UniXASSH 🛧	Unix Account (SSH)	ss-current/Personal Folders	ss-current	WinWord Proce
AutoTestGroup33 C Empty Folder Test	VM1-node0	Windows Account	SS-Curre ss-current/Personal Fold	ers/Max	SQL Server Launcher
Folder With A Sub	WIWI	Windows Account	ss-current/Personal Folders	ss-current	cmd+ RMW

Note: The number of launchers visible in the right navigation panel will depend on your screen size, screen resolution, and text size. The below matrix offers approximate guidance in terms of the number launchers visible:

Screen Size	Screen Resolution	Screen Scale	Font Size	# of Launchers
27 in	4k	100%	Normal	25+
15 in	4k	225%	Normal	<25



The Secrets with launcher can be launched in the Secret Server UI and have the protocol handler open and run the launcher in Connection Manager. The Secret needs to be configured to use the protocol handler, and when launched it uses Connection Manager if available. When Connection Manager opens, it will be in a "Locked" state, with only the Secret Server launched session(s) being available. Please note that when launching a connection from protocol handler you will not be able to reconnect.

If Connection Manager is launched using the protocol handler and is in the "Locked" state, users have a "Sign In" option available to fully log into Connection Manager to use their other connections.

When a remote session is connecting over a proxy, the connection tab displays the remote host name instead of the local host name.

Note: Local Connections are limited to RDP and SSH launchers.

Proxy Tabs Show Remote Host Name

When a session is connecting through a proxy, the tab label displays the identity of the remote host.

Screen Resolution for New Session Window Views

When you maximize an active RDP session window or you drag it as a standalone window to a second monitor, the session automatically disconnects and reconnects so it can use the highest supported screen resolution for the new window view. When you do the same with an active RDP *Proxy* session window, the session cannot automatically reconnect because RDP Proxy sessions launch with a one-time password (OTP) that cannot be regenerated. Therefore an RDP Proxy session cannot use the highest supported screen resolution for a new window view. Note:

no RDP session of any kind can use the highest supported screen resolution for a new window view if the default setting for Desktop Size has been changed from **Auto** to a fixed size under RDP Global Settings.

Moving and Reorganizing Session Tabs and Windows

You can undock, move, and redock session tabs and windows in Connection Manager. To undock a session window, click the session tab and drag it out of the tab dock area. The tab becomes a standalone session window, which you can drag to another monitor or to another location on your desktop.

To redock a session window, click and drag it toward the row of docked tabs in the main Connection Manager window. As you drag the window close to the tab dock, a blue line appears around the dock:



When you drag the window onto the tab dock, the dock turns light blue to indicate that you can drop the window:



Session Recording

If session recording is configured to run only on the primary secret, only the primary session will be recorded. If the secret is configured to record multiple windows, Connection Manager honors the setting and all sessions started from the initial session are also recorded.

The default screenshot queue limit is set to 0 in the Application Configuration file, but, if you are experiencing a slow internet connection speeds or interruptions, Delinea recommends increasing the *ScreenshotsQueueLimit* to any positive value, such as 30 screenshots. The greater the value you set, the more screenshot data will be queued

before the session is terminated. Please see "Setting the Screenshot Queue Limit" on page 138 for more information.

A typical example are Xming implementations of Secure Shell (SSH) to securely forward X11 sessions from other computers. While recording an Xming session, all windows created are recorded and if a user tries to use X11 forwarding for example in Chrome, the new Chrome window will be recorded too.

Working With Third-Party Applications (Preserve SSH Client Process)

When using Connection Manager with third-party applications, users will need to create a custom launcher for their application. If the user closes the Connection Manager tab, the third-party application will not close unless *Proxied SSH Process* is set and the flag *Preserve SSH Client Process - True* is enabled.

Secret Server			۲
Dashboard	Launcher		
Secrets	GENERAL SETTINGS		
L Inbox	Launcher Type	Proxied SSH Process	
I Reports	Launcher Name	FileZilla SFTP - Mac - Proxied SSH Process	
	Active	Yes	
Administration	Launcher Image		
	Wrap custom parameters with quotation marks	No	
	Track Multiple Windows	Yes	
	Record Additional Processes	< None >	
	Preserve SSH Client Process	Yes	
	Use SFTP Tunneling with SSH Proxy	No	

Launching from Secret Server without Connection Manager Open

If a protocol handler is launched from Secret Server, without having an open Connection Manager, the **Open Connection Manager?** window opens:

	Open Delinea Connection Manager?
	https://ss-next.eastus.cloudapp.azure.com wants to open this application.
	Always allow ss-next.eastus.cloudapp.azure.com to open links of this type in the associated app
	Open Delinea Connection Manager Cancel
Ļ	

Click **Open Connection Manager** and an active session is launched in Connection Manager:



In this example the application was opened and placed inside the new tab. Certain applications won't fit in the tab and will be opened in an independent window outside the tab. Other windows opened by the user won't be placed inside the tab either, but everything that originated from the originally launched application will be tracked.

For applications launched from within a Secret Server, the other configured local and existing Secret Server connections remain locked in Connection Manager.



Only navigation between different Active Session tabs initiated from Secret Server is possible.

Signing In After the Launch

To sign in after an app launch was initiated from Secret Server,

1. From the hamburger menu, select File | Sign in or right-click on Active Session and select Sign in.

Sign In Enter your password to a	access the local storage file.	
Password		
Create new local storage (All existing connections w	e file II be lost)	Cancel Sign In

- 2. Enter your password.
- 3. Click Sign In.

Once signed in, the user has access to all connections and all Connection Manager functionality is unlocked.



Creating a New Local Storage File

During the sign in, users can select to create a new local storage file by clicking the link in the sign in window:

Ent	
	All your existing connections will be lost. Are you sure that you want to continue?
Pas	
L	No Yes

Note: If this option is used, existing connections will be lost.

Solution Guide: Launching SSH Sessions with Mac-Native SSH Client

	🚞 ruslanmishin — -zsh — 80×24	
Last login: Mon Sep 16 08 ruslanmishin@MacBook-Air-F	:39:57 on ttys000 Ruslan ~ %	

These instructions show how to launch SSH sessions through Delinea Connection Manager to the Mac-native SSH client on MacOS. This allows users to use the Mac-native SSH client as their preferred terminal implementation.

Use Cases

Starting in Connection Manager 2.5.3, the Mac-native SSH client supports the ability to launch usernames and passwords as well as private keys over proxy. It does not support private keys without proxy or sessions with session recording.

Prerequisites

Prior to using the Mac-Native SSH Client, users need to verify that they have:

- 1. Connection Manager version 2.5.3 installed or newer on the client machine.
- 2. A secret configured with SSH proxy to the target machine
- 3. GPG installed on the client machine. This can be accomplished by running the following terminal command:

brew install gpg

Note: Connection Manager will look for GPG in the default homebrew folder. If users want to install GPG in a different location, users must pass the modified path to the folder as a launcher argument: --environment-path /your/path

Setup

Step 1: Create a Custom Launcher in Secret Server

Follow the directions for creating a custom launcher using the parameters named below:

General Settings

- Launcher Type: Proxied SSH process
- Launcher Name: macOS Terminal
- State: Enabled
- Preserve SSH Client Process: Yes

MacOS Settings

- Process Name: TerminalSSH
- Process Arguments: --password \$PASSWORD --port \$PORT --username \$USERNAME --host \$HOST

Note: If GPG was installed to a non-default location, add the following process argument: --environmentpath /your/paths

General settings

Launcher type 💿	Proxied SSH process
Launcher name	macOS Terminal
State	Enabled
Use additional prompt	No
Track multiple windows	No
Wrap custom parameters with quotation marks	No
Preserve SSH Client Process	Yes
Use SFTP Tunneling with SSH Proxy	No

Windows settings

Configure the command that will run on Windows computers when this launcher is initiated How do I process arguments E^a

Process name	None
Process arguments	None

Mac settings

Configure the command that will run on Mac computers when this launcher is initiated How do I process arguments $\ensuremath{\mathbb{C}}$

Process name	TerminalSSH
Process arguments	password \$PASSWORDport \$PORTusername \$USERNAME host \$HOST

Step 2: Map the New Launcher to the SSH Secret Template in Secret Server

Follow the directions for <u>editing a secret template</u> to map the macOS Terminal launcher to the appropriate SSH secret template (e.g., Unix Account (SSH)). Be sure to map the launcher fields as shown below.

Add mapping		
Mapping type	os	~
	LAUNCHER TYPES	
	macOS Terminal	

Launcher name	macOS Terminal		Remove	Edit
Restrict user input	No			
Fields				
LAUNCHER FIELD		SECRET FIELD		
Host		Machine		
Password		Password		
Port		22		
Username		Username		

Step 3: Launch SSH Secret from Connection Manager

Within the Connection Manager application, <u>authenticate to the desired vault</u> and use macOS Terminal as the secret launcher rather than PuTTY.

Beta			•	q
214 itema 🖌 All Templates		c	9 444	CMUSER-SSH ∠ C ×
NAME +	SECRET TEMPLATE	CONNECTION TYPE		
	unix eccount (pan)	UTEX HULLUTE (JOAT)		Launchers
CheckOut secret-Clone 🔺	Unix Account (SSP)	Unix Account (55H)		PuTTY Putty X11 forwarding
CheckProxy	Active Directory Account	Active Directory Account		Cill AWS Batch
cm-engine-host-1/Access	Windows Account	Windows Account		FileZila SFTP - Mac - Proxied
🗋 CMUSER - SSH 🚖	Unix Account (SSH)	Unix Account (SSH)		Cille Zille Win
CMUSER - SSH - Approve +	Unix Account (SSH)	Unix Account (SSH)		FileZilla SFTP Launcher - Win
CMUSER - SSH - Check-Out 🔺	Unix Account (SSH)	Unix Account (SSH)		WinSCP TCP Proxy
CMUSER - SSH - Comment 🔺	Unix Account (SSH)	Unix Account (SSH)		Secure CRT Provied with Van
CMUSER - SSH - Comment	Unix Account (SSH)	Unix Account (SSH)		WinSCP TCP Proxy - SSH
CMUSER - SSH - DoubleLock 🚖	Unix Account (SSH)	Unix Account (SSH)		🕞 macOS Terminal
CMUSER - SSH - PROXY 🚖	Unix Account (SSH)	Unix Account (SSH)		Details
dev-cloud-manager (admin)	Web Paseword	Web Password		Machine
different RDPs 🔺	AD Different	AD Different		10.60.19.117
DoubleLock secret 🔺	Unix Account (SSH)	Unix Account (SSH)		Username cmuser01
Duplicate of AD site select.	Active Directory Account - Resticted Launch	Active Directory Account - Resticted Launch		Password
Duplicate of list field - den.	AD - ListLaunch	AD-ListLaunch		
Duplicate of RDP Proxy - V.,	Windows Account	Windows Account		notes
Dublicate of RDP Srini 2 (RFC)	Windows Account	Windows Account		Private Key Pasaphrase

The macOS Terminal should open for the selected secret.

On first launch, users may see a terminal window asking to save the fingerprint key. Enter yes to confirm the connection fingerprint as a known host.

● ● ■ ruslanmishin — 13BF56BE-3C4C-45B8-92C4-FF6C4077CA05 — expect < 1	
The authenticity of host '10.60.19.117 (10.60.19.117)' can't be established. ED25519 key fingerprint is SHA256:f9kSoDhqTwxFkmnjGnUTdTbocMLwERZ0Zh+arqASTLo. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])?	
📀 😑 🚞 ruslanmishin — cmuser01@omegacentos04:~ — expect 🛚 746D1EC3-3136	
The authenticity of host '10.60.19.17 (10.60.19.17)' can't be established. ED25519 key fingerprint is SHA256:Ii0Z86NnTeQzmYsTxa+dpSHT4kFW0eKGBHtEpEoyBZ4. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes yes Warning: Permanently added '10.60.19.17' (ED25519) to the list of known hosts. cmuser01@10.60.19.17's password: Last failed login: Fri Sep 13 01:46:42 EDT 2024 from 10.60.11.65 on ssh:notty There were 41 failed login attempts since the last successful login. Last login: Wed Sep 11 09:15:51 2024 from 172.25.134.56 [cmuser01@omegacentos04 ~]\$	

When tasks on the connection are complete, please ensure the terminal is terminated. Because the Preserve SSH Flag setting is required, it is important to close these tabs correctly.

💿 😑 🛑 🚞 ruslanmishin -	- cmuser01@omegacentos04:~ - ex	pect < 746D1EC3-3136
The authenticity of host ED25519 key fingerprint i This key is not known b Are you sure you want t yes Warning: Permanently ac cmuser01010.60.19.17's Last failed login: Fri There were 41 failed lo Last login: Wed Sep 11 [cmuser010omegacentos04	'10.60.19.17 (10.60.19.17)' can't is SHA256:Ii0Z86NnTeQzmYsTxa+dpSHT	<pre>be established. '4kFWOeKGBHtEpEoyBZ4. 'print])? yes .st of known hosts. 1.65 on ssh:notty 1 login.</pre>
	processes in this window?	
	Closing this window will terminate the running processes: bash (2), ssh, expect.	
	Cancel Terminate	
C [®] Connections CMUSER - SSH - Comment (m	acOS Termin /	
	The connection will be terminated. Are you sure you want to pro	ceed?
	No	Yes
	This connection is in use by the external application Terminal	ISH and uses the Preserve SSH Client setting.
	Closing this tab will terminate the underlying co The external application will stay open but it r This tab needs to be manually closed by the user when the externa	nnection to the target machine. may not function as expected. I application no longer needs to use the connection.

Known Issues

Fingerprint Confirmation

If the fingerprint is confirmed after 2 minutes or longer, it will still be accepted by the system; however, the user will need to reconnect because the connection will timeout.

```
• • • ruslanmishin — EBB68158-C132-4E75-805F-BF52026CDC43 — 80x24
The authenticity of host '10.60.19.117 (10.60.19.117)' can't be established.
ED25519 key fingerprint is SHA256:f9kSoDhqTwxFkmnjGnUTdTbocMLwER20Zh+arqASTLo.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
yes
Warning: Permanently added '10.60.19.117' (ED25519) to the list of known hosts.
Connection closed by 10.60.19.117 port 22
Saving session...
...copying shared history...
...completed.
[Process completed]
```

Attaching Files to Secret Launchers

This section contains information about:

- "Attaching Files to Secret Launchers on Windows " below
- "Attaching Files to Secret Launchers on MacOS" on page 130

Attaching Files to Secret Launchers on Windows

Step 1: Creating a Custom Launcher

- 1. Navigate to the Secret templates page in Secret Server and click the Launchers tab.
- 2. Click Create.
- 3. Enter the launcher information as shown below:

General Settings

- Launcher Type: Process
- Launcher Name: [Enter launcher name]
- State: Enabled
- Preserve SSH Client Process: No
- Use SSH Tunneling with SSH Proxy: No

Windows Settings

- Process name: [Full path to file]
- Process arguments: -file.filenameslug

Note: -file.filename slug must match the field in the secret template where the attachment is located.

- Run process as secret credentials: No
- Use Operating System Shell: No

	Settings	Settings > Launchers >		Q Search	0	∻	Û	ID
44	Overview	Oscar's New Launcher						
Home	Connection points Engine management	Overview Audit						
Secret Server	Connectors	General settings					Ed	it
O Inventory	Registration codes Privileged remote access	Launcher type ③	Process					- I
Insights	Registered apps	State						- 1
Discovery	Directory integrations Federation providers	Use additional prompt Track multiple windows Record additional processes	No Yes					- 1
Policies	Directory services User attributes	Wrap custom parameters with quotation marks Preserve SSH Client Process	Yes No					- 1
Identity Posture	Governance	Use SSH Tunneling with SSH Proxy	No					- 1
A Threat Center	Access setup Configuration System	Windows settings Configure the command that will run on Windows compu- How do I process arguments 앱	uters when this launcher is initiated					- 1
Access	Identity management	Process name Process arguments	notepad -file.filenameslug					- 1
Marketplace	MFA and security	Run process as secret credentials	No					- 1
	Authentication profiles MFA providers	Use Operating System Shell Escape character	No 					
~	 Security questions Security devices 	Mac settings	-					Ŧ

Step 2: Creating a Custom Template

- 1. Create a new template inside Secret Server
- 2. Select the **Fields** tab and add a new field for each file you would like to launch. Make sure that the *Data type* is set to **File**.

Add field	
Name *	pdf-file-name
Field slug name *	pdffilename
Description	
Data type *	File ~
	Cancel Save

- 3. Select the Mapping tab and click Add mapping.
- 4. Select the launcher you created in Step 1:

A	And and a second se	Annual - Annual Annual -		· · · · · · · · · · · · · · · · · ·
	Second Second	dearer		Name Same
		Passed changing		
-	Augustan and Augustan and Augustan and Augustan and Augustan and Augustan Aug	Tall and part to pay	:	
0		Add mapping		
<u></u>	Termination and the second	Mapping type	Search or pick one	
-			LAUNCHER TYPES IBM iSeries Launcher	-
	Long-sea	Extended mappings	Oscar's New Launcher Powershell Launcher	
-			PuTTY Remote Desktop	
-	American prime		SQL Server Launcher	
-	Reading and the second			

- 5. Map the fields from the templates to the launcher.
- 6. Launch the secret.

Attaching Files to Secret Launchers on MacOS

Step 1: Creating a Custom Script for Your Application

Create a shell script, containing the full file path to your application, in the following format:

#!/bin/bash\

open \$1 -a "/Applications/PDF/[AppName].app

Example:



Step 2: Creating a Custom Launcher

- 1. Navigate to General Settings > Secret Templates > Launchers.
- 2. Click Create.
- 3. Enter the launcher information as shown below:

General Settings

- Launcher Type: Batch file
- Launcher Name: [Enter launcher name]
- State: Enabled
- Use additional prompt: No
- Track multiple windows: Yes
- Record additional processes: None
- Wrap custom parameters with quotation marks: Yes

Windows Settings

- Batch file: None
- Process arguments: None
- Run process as secret credentials: No
- Use Operating System Shell: No
- Escape character: None
- Characters to escape: None

Mac Settings

- Shell script: [Custom script from Step 1]
- Process arguments: [Your file names]

Important: Paths to arguments must be in the following format: -file.[slug from secret template]

Multiple files can be inserted as shown in the screenshot below:

₽	Settings All settings	(i) INFORMATION Your support licenses are expired or incomplete.			View Dismiss
Home	Configuration search	Admin > Launchers >		Q ③ ⊕ L	6 🗉 💿
Secrets O Discovery	Distributed engine Sites and engines Site connectors	TextEdit - 3 files			
Reports	Log	General settings		View Legad	y Page Edit
e,	Audit	Launcher type ③	fatch file		
Access	Proxying SSH	Launcher name State	TextEdit - 3 files Enabled		
CO3 Settings	RDP SSH terminal	Use additional prompt Track multiple windows Record additional processes	No Yes None		
	Endpoint configuration	Wrap custom parameters with quotation marks	Yes		
	Remote Password Changing Configuration Password changers Dependency changers Heartbeat log Password change log	Windows settings Configure the command that will run on Windows computers wh How do I process arguments of Batch file Process arguments Run process as secret credentials Like Obsertion System Shell	en this launcher is initiated None No		
	General	Escape character	None		
	Secret policy	Characters to escape	None		
	Secret templates Event pipeline policy Event subscriptions Workflow	Mac settings Configue the command that will run on Mac computers when th How do I process arguments ී Shell script Process arguments	is launcher is initiated open_all_textedit.sh -file.file1 -file.file2 -file.file5		

Step 3: Creating a Custom Template

- 1. Create a new template inside Secret Server.
- 2. Select the **Fields** tab and add a new field for each file you would like to launch. Make sure that the *Data type* is set to **File**.

Add field	
Name *	text-edit-app
Field slug name *	texteditapp
Description	
Data type *	File ~
	Cancel Save

- 3. Select the **Mapping** tab and click **Add mapping**.
- 4. Select the launcher you created in Step 1.
- 5. Map the fields from the templates to the launcher.
- 6. Launch the secret.

Common User Activities

Since there are many variations and configuration options for remote connectivity, it is not possible to cover all of them in detail. However, Connection Manager does support many variations.

- Folder Editing
- "Creating Connections" on page 73
- Integrated Connections
- "Re-authenticating to a Vault" on page 66
- Log File Location

Connections

The following Connections related topics are available:

- "Re-authenticating to a Vault" on page 66
- Remote connections
- Integrated connections

Batch Opening Connections

In Connection Manager there are several ways to simultaneously open multiple connections, including combinations of Secret Server and Local connections.

Batch Opening Connections Using Multi-select

You can batch open multiple Local and Secret Server Connections, even when they are in different folders

1. Click to check the box before each connection you wish to open.

T 0.1					~
3 Selected	└」 '↓ □				2
NAME 1	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	CONNECTION SOURCE	LAS
Harry's RDP Connection	RDP	Local Connections		Local Connections	
Ilya's connections	SSH	Local Connections		Local Connections	
Il'ya's RDP connection	RDP	Local Connections		Local Connections	
John's connections	SSH	Local Connections		Local Connections	
Max's connection	SSH	Local Connections		Local Connections	
Ron's RDP connection	RDP	Local Connections		Local Connections	

2. In the toolbar click the **Connect** icon.

Batch Opening All Connections in a Folder

You can batch open all connections in a folder, at the folder level.
1. Click to check the box before the folder whose connections you wish to batch open.

6 Selected 🛛 🔠 🥂 🛠	በ <u>ነ</u> ቨ				
NAME 1	CONNECTION TYPE	FOLDER PATH	SECRET TEMPLATE	CONNECTION SOURCE	L
Harry's RDP Connection	RDP	Local Connections		Local Connections	
/ Ilya's connections	SSH	Local Connections		Local Connections	
Il'ya's RDP connection	RDP	Local Connections		Local Connections	
John's connections	SSH	Local Connections		Local Connections	
Max's connection	SSH	Local Connections		Local Connections	
Ron's RDP connection	RDP	Local Connections		Local Connections	

2. In the toolbar click the **Connect** icon.

You can also open all connections in a folder by right-clicking the folder in the left-hand navigation and selecting Launch Connection from the context menu.

						0 -	
	Connections						
Active Sessions	ss-current	> Personal Folders > Max			•		Q
C Recent	52 Ite	ms All Templates				C	<u>.</u>
Shared With Me							
Favorites	NAME	↑	SECRET TEMPLATE	FOLDER PATH	CONNECTION SOURCE		
Connections	D 0	100 Bulk Connect Test		ss-current/Personal Folders			
Local Connections	0	00NEW		ss-current/Personal Folders			
 Csalasiawewegeg Ilya's folder 	1 1	11-NEW		ss-current/Personal Folders			
ilya's folder Launch Connec	ction(s)	plder		ss-current/Personal Folders			
Lilya's folder 2 Create SSH Gro	oup	exey test		ss-current/Personal Folders			
🗋 Ilya's super se New Secret		plication		ss-current/Personal Folders			
Ss-current Refresh	26	to test - compatibility		ss-current/Personal Folders			
> 🗅 Max		lutoTestGroup		ss-current/Personal Folders			
> 🗋 Add Some Folders	-			as auropt/Deveced E-1-1			
> 🗋 AutoTestGroup		lutorestGroup2		ss-current/Personal Folders			
> 🗋 AutoTestGroup22	L 1	eremy test		ss-current/Personal Folders			
AutoTestGroup33							

Batch Editing Local Connections

In Connection Manager there are several ways to batch edit multiple RDP connections or multiple SSH connections. You cannot edit RDP and SSH connections together.

Batch Editing Local Connections Using Multi-Select

You can batch edit parameters for multiple local connections (all RDP or all SSH) using multi-select.

1. Click to check the boxes for all connections you wish to batch edit

Έ						Ø – в ×
Connection Manager	Connections					
Active Sessions	Local Connections	Edit Rem	ote Desktop Connect	ions	0	Q
Recent	2 Selected 🖸 🗄 🖉	2 connecti	ons selected			+†+
Favorites	NAME 1	General	Windows Mode Loo	cal Resources		
Connections	10.10.202.150	EDIT	FIELD	VALUE		
Local Connections Folder1	Mapped Secret - List Con		Initial Size	Åuto 🖉		
FED Auth0 SAML	Mapped Secret - Proxy		initial Size	AULO		
FED Auth0 OIDC	SSH		Auto Resize			
FED Okta OIDC	SSH with MFA		Color Depth	True Color (24 bit)		
FED Okta SAML	SSH with MFA 2					
A cust			Run As Admin			
Ss next						
G US Delinea						
				Cancel Save		
	-				_	
Configuration						

- 2. In the toolbar click the **Edit** icon.
- 3. Edit the settings you wish to apply to all of your selected connections and click **Save**.

Batch Editing Credentials for All Connections in One or More Folders

You can batch edit Credentials for all connections in one or more folders, at the folder level.

1. Click to check the boxes for the folder or folders whose connections you wish to batch edit.

Connections	Edit Fol	ders						
Local Connec	2 folders	selected				•		Q
2 Select								<u>00</u>
NAME	EDIT	FIELD	VALUE			T TEMPLATE	CONNECTION SOURCE	LAST
🔽 🗅 ilya':		Oredentialet	Naza					
🗹 🛅 Ron		Credentials*	None		Ť			
			Capcal	Savo				
			Caricer	Save				

- 2. In the toolbar click the **Edit** icon.
- 3. Edit the Credentials you wish to apply to all connections in your selected folder or folders and click Save.

Application Configuration File

The Connection Manager configuration files can be found at the default locations indicated below.

Windows Configuration File Location

C:\Program Files\Delinea\Connection Manager\Delinea.ConnectionManager.exe.config

macOS Configuration File Location

/Users/<yourusername>/Library/Preferences/com.Delinea.ConnectionManager.plist

Disabling Update Check on Startup for Windows

To disable automatic checking for updates on startup, for Windows open the configuration file and change the value to False as depicted in the screen shot below.

Disabling Update Check on Startup for macOS

To disable automatic checking for updates on startup for macOS, in Terminal type: defaults write com.Delinea.ConnectionManager Env.CheckUpdateOnStartup -bool false

Enabling Software Rendering for the Internal Browser on Windows

The CEF browser is an internal browser built into Connection Manager. It has the same functionality as a regular web browser and can be useful for handling browser content redirection. It uses hardware accelerated rendering by default. If you are experiencing issues with it, you may opt to enable software rendering by running the following command.

Adjust the Application Configuration file setting with the needed value:

```
<setting name="SoftwareRenderForCEF" serializeAs="String">
<value>True</value>
</setting>
```

Enabling/Disabling Auto Reauthenticate

This feature provides the option to configure vault reauthentication behavior in Connection Manager. Users may keep the existing behavior that automatically restarts the authentication flow or force a fresh login when their vault session/refresh tokens have expired--mimicking the existing web API behavior.

The default value is **y** which automatically restarts the authentication flow. If the value is set to **n**, the behavior will be more similar to the web API which forces a fresh login. The **n** option is beneficial for users who use SAML configuration through an external identity provider with a longer session/refresh length and enables audit logs to correctly generate upon logout.

Important: Please see the "User Configuration File for Windows" on page 142 file for editing this parameter on Windows.

Example for Windows

Adjust the Application Configuration file setting with the needed value:

```
<setting name="AutoReauthenticate" serializeAs="String">
```

<value>n</value> </setting>

Example for macOS

Run the following command in the MacOS terminal:

defaults write com.Delinea.ConnectionManager Env.AutoReauthenticate n

Run the following command in the MacOS terminal:

Enabling the Session Status Popup on Windows

The Session Status popup window is disabled by default. This window would appear every time a user signed out of a session, confirming that they also signed out of the server. However, if you are experiencing memory leak issues, Delinea recommends enabling this window with the following command:

Adjust the Application Configuration file setting with the needed value:

```
<Delinea.ConnectionManager.Wpf.Properties.Settings>
<setting name="ShowDisconnectMessage" serializeAs="String">
<value>True</value>
</setting>
</Delinea.ConnectionManager.Wpf.Properties.Settings>
```

Configuring Proxy Settings

Users can configure the proxy settings via the following command after </startup>

Adjust the Application Configuration file setting with the needed value:

Important: This parameter should only be added under the direction of your administrator. Any errors in configuration could cause errors authenticating to the Delinea Platform or Secret Server.

Setting the Screenshot Queue Limit

If you have session recording enabled and are experiencing unstable internet connectivity, Connection Manager may no longer be able to send screenshots to the server and your session will be terminated. If you continue to experience internet connectivity issues, you can try increasing the screenshot queue limit to allow screenshots to be temporarily saved locally until connectivity is restored. The screenshot queue limit can be increased by changing 0 to any positive value in the following commands:

Windows

Adjust the Application Configuration file setting with the needed value:

macOS

Run the following command in the MacOS terminal:

defaults write com.Delinea.ConnectionManager Env.ScreenshotsQueueLimit -int 0

Configuring RDP Connection Timeout Over TCP

This configuration allows the ability to customize RDP connection timeouts in seconds. This is helpful for situations involving proxy, MFA, or other configurations that require additional time to connect before timeout due to inactivity. The timeout can be adjusted as needed, but the recommended suggestion is to start with 60 seconds as shown below:

MacOS

Run the following command in the MacOS terminal:

```
defaults write com.Delinea.ConnectionManager Env.RDPConnectionTimeout -int 60
```

In Connection Manager versions 2.5.x, the timeout was configured using the SSH. ConnectionTimeOut value, which was measured in milliseconds. This value will be deprecated in the next release.
 Upgrade Behavior: If you upgraded from a 2.5.x version and already had a value set for SSH. ConnectionTimeOut (in milliseconds), this value will be ignored if a new value is explicitly set in the Env.SSH. ConnectionTimeOut parameter.
 Default Value: If no value was previously set in SSH. ConnectionTimeOut, the Env.SSH. ConnectionTimeOut parameter will default to 60 seconds.

Windows

Adjust the Application Configuration file setting with the needed value:

```
<setting name="RdpConnectionTimeout" serializeAs="String">
<value>60</value>
</setting>
```

Important: In versions 2.5.x of Connection Manager, this value was measured in milliseconds. If users already had a value set in milliseconds, Connection Manager will preserve that value after upgrade. Otherwise, the default value will be set, which is 60 seconds.

Configuring SSH Connection Timeout Over TCP

This setting allows administrators to configure the amount of time (in seconds) during which a user can be inactive (i.e., not interacting with the system in any way) without any impact on their SSH session. After the timeout expires, the user will be disconnected from the session and session itself will be closed. The default value is set at 60 seconds, but can be adjusted as needed by changing the value shown in the example below:

Windows

Adjust the Application Configuration file setting with the needed value:

Important: In versions 2.5.x of Connection Manager, this value was measured in milliseconds. If users already had a value set in milliseconds, Connection Manager will preserve that value after upgrade. Otherwise, the default value will be set, which is 60 seconds.

MacOS

Run the following command in the MacOS terminal:

```
defaults write com.Delinea.ConnectionManager Env.SSHConnectionTimeout -int 60
```

In Connection Manager versions 2.5.x, the timeout was configured using the SSH. ConnectionTimeOut value, which was measured in milliseconds. This value will be deprecated in the next release.
Upgrade Behavior: If you upgraded from a 2.5.x version and already had a value set for SSH. ConnectionTimeOut (in milliseconds), this value will be ignored if a new value is explicitly set in the Env. SSH. ConnectionTimeOut parameter.
Default Value: If no value was previously set in SSH. ConnectionTimeOut, the Env. SSH. ConnectionTimeOut parameter.

Env.SSH.ConnectionTimeOut parameter will default to 60 seconds.

Adjusting the SSH Scrollback Buffer Size on MacOS

Adjusting the value of the SSH scrollback buffer size allows users to update the amount of lines they can scroll back inside the terminal during the SSH session to view the session history. The default value is set at 10,000 lines, but it can be increased to as much as 100,000 lines as shown in the example below. After adjusting the scrollback buffer size you will need to restart Connection Manager for the changes to take effect.

Run the following command in the MacOS terminal:

defaults write com.Delinea.ConnectionManager SSH.TerminalScrollback -int 100000

Note: It is not recommended to set the scrollback buffer size to more than 100,000 lines since this could negatively impact the performance of the SSH terminal.

Configuring Special Characters in SSH Connections on MacOS

The Env.OptionAsMetaKey setting allows you greater control over of how Connection Manager handles special characters and symbols when working in SSH connections. This setting is a preference that can be set at the user level.

- The default setting is true, which enables the use of the Option key as a Meta key in the terminal during SSH connections.
- When set to false, this setting permits the use of special symbols (e.g., @, #, ~) in certain keyboard layouts, particularly non-English keyboards, during terminal sessions over SSH connections. Example:

defaults write com.Delinea.ConnectionManager Env.OptionAsMetaKey -bool false

Incorrect Handling of System Keys

In the event that system keys are not handled correctly, users will need to adjust the corresponding parameters in the config file *user.config* by setting the variable "SshFunctionKeysMode". The default value is "CommonExtended" but can be set to the following values:

- CommonExtended
- Common
- Linux
- XtermR6
- VT400
- VT100Plus
- Sco
- CommonAlternative
- VT52
- LinuxAlternative
- ScoAlternative
- Wyse60
- HpUx
- Pick



Note: Strings are case sensitive

User Configuration File for Windows

This file contains parameters pertaining to individual users.

Windows Configuration File Location

C:\Users\Dell\AppData\Local\Delinea_Inc

Enabling/Disabling Auto Reauthenticate on Windows

This feature provides the option to configure vault reauthentication behavior in Connection Manager. Users may keep the existing behavior that automatically restarts the authentication flow or force a fresh login when their vault session/refresh tokens have expired--mimicking the existing web API behavior.

The default value is **y** which automatically restarts the authentication flow. If the value is set to **n**, the behavior will be more similar to the web API which forces a fresh login. The **n** option is beneficial for users who use SAML configuration through an external identity provider with a longer session/refresh length and enables audit logs to correctly generate upon logout.

Example

```
<setting name="AutoReauthenticate" serializeAs="String">
<value>n</value>
</setting>
```

Folder: Creating, Editing, Moving, Deleting

Creating a New Folder

Connection Manager uses folders to help organize local connections.

- 1. Navigate to the location where a new folder should be created.
- 2. Right-click and select New Folder.

Create a New Folder	
Enter a name for your new folde	r
GENERAL FOLDER INFORMATION	ON
Folder Name*	
	Parent Folder: Local Connections
Credentials*	None 🔻
	None
	Local Credentials
	Inherit from Folder
	Map Secret
	Cancel Create

- 3. Enter the Folder Name and click Create.
- 4. Choose the appropriate **credential option** from the list:
 - **None**: No credential values will be set or required for the new folder.
 - Local Credentials: Allows a user to create the credentials for the new folder.
 - Inherit from Folder: Allows a user to set credentials for a sub-folder to imitate the folder in which it will reside.
 - Map Secret: Allows a user to apply secrets to the new folder.

View Integrated Connections for additional information on credentials.

Editing a Folder

1. Navigate to the folder to be edited and right-click. The Edit Folder dialog box opens.

Edit Folder		
Enter a name for your fo	lder	
GENERAL FOLDER INFO	DRMATION	
Folder Name*	lya's folder	
	Parent Folder: Local Connections	
Credentials*	None	-
	Cancel	Save

2. Make any desired change to the folder and click Save.

View the Integrated Connections section for additional information on credentials.

Moving a Folder

Move folders to organize them by dragging and dropping them in the Local Connections view.

Deleting a Folder

When a folder is deleted, the folder and its contents (Local connections and other folders) are deleted.

Important: This action is NOT reversible. Once a connection is deleted it cannot be recovered.

- 1. Navigate to the folder to be deleted.
- 2. Right-click the **folder name** and select **Delete**. A confirmation modal opens.



3. Select Yes to confirm.

Transferring Files Using Local Drives

Customers can copy files from their local machine to remote targets, and vice versa, by mapping local drives to remote targets via RDP when using Connection Manager.

- 1. Right click on a local connection and click Edit.
- 2. Click the Local Resources tab.
- 3. In the Local Devices section, check the Drives box.

General Window	s Mode	Local Reso	ources			
Local Devices	Select re	esources to us Printer Clipboard	se in remo	ote session Drives Smart C	n: Specify Drives ards	
Windows Shortcuts	Only	when using th	ne full scr	een		
Audio Playback	This	Computer				
Audio Recording						
				Cancel	Save	

- 4. Specify the drives to use in the remote session and click OK.
 - Note: You can also set this as the global configuration default in the global RDP settings.

Using SSH Session Groups

Users can now create one or more groups of active SSH sessions, then send a command or a series of commands in bulk to all active sessions in the group.

Creating and Naming an SSH Group

You can create a new SSH Group two ways. The first is this way:

- 1. Select the sessions you want to include in the group
- 2. Click the Create a Group toolbar icon.

=		◎ – ₽ ×
Connection Manager	Connections	
Connection Manager Active Sessions Recent Shared With Me Favorites Connections Connection	Connections Ss-current ■ 3 Selected All Templates C BL NAME ↑ Create SSH Group ○ 01 Need to Checkout ○ 11 Check Out workflow 1 11 - Request Access/Approval Workflow 192168.11.225RDP connection555 2 3 workflow - require approval+doublelock 3 workflow - require approval+doublelock	C H
View Only Folder	A Doublelock+request comment AA_W4	
	Active Directory Account 05/20/2019 13:38:39	
	Active Directory RDP NO proxy	

The second is to use the Create SSH Group option in right-click context menus.

		0 –	6	×
Connection Manager	Connections			
Active Sessions	ss-current > Personal Folders		Q	
C Recent	1 Items All Templates	C	벆	
✓ Shared With Me				
Favorites				
Connections	🗋 Max ★ ss-current/Personal Folders			
Local Connections				
Ss-current				
> Personal Folders				
> Add Launch Connection(s)				
> Auto Create SSH Group				
> Aut(New Secret				
Aut(Refresh				
Add To Favorites				
Resting Folder 05/20/2019				
View Only Folder				
Configuration <				۰.

When the SSH Group is created, it opens in its own window with a special Group tab followed by the individual tabs for each SSH session in the group.

Group 1	- 0	×
Group 1		
Group 1 Rename		
() No active sessions in this group		
Type commands here to send to all active sessions in the	ihis group.	
	Clear Input Ctrl+C Ctrl+Z Ctrl+D Ctrl+L Send Command(s)	

If the user has generated the SSH Group from sessions occupying a single folder, the group tab will be labeled with the name of the original folder. If the user has generated the SSH Group from sessions that did not occupy a single folder, the group tab will be labeled with a generated sequential name such as Group 1, Group 2, etc. The user can always change any group name from the name it was assigned initially.

Sending Commands to the SSH Group

At the top of the Group tab is a command window, where users can input one or more commands to send to all sessions in the group. To send a single command, the user simply enters the command and presses the Enter key or clicks the **Send Command(s)** button. To send a series of commands as a group, the user enters each command followed by Ctrl+Enter. When the user has entered the last command in the series, pressing the Enter key or clicking the **Send Command(s)** button sends all of the commands to all SSH sessions in the group, following the sequence in which they were entered.

Group 1	– 🗆 ×
Group 1	
Group 1 Rename	
() No active sessions in this group	
Type commands here to send to all active sessions in th	iis group.
品目	Clear Input Ctrl+C Ctrl+Z Ctrl+D Ctrl+L Send Command(s)
	N

The four commands listed below are built into the user interface as individual buttons:

- **Ctrl+C** Kill whatever you are running. The confirmation alert should be displayed, the command should be broadcast to all sessions, and the top command should be stopped.
- **Ctrl+D** Exit the current shell. The "exit" should be displayed on all SSH sessions in the group; all sessions in the group should be closed, and the Group window should be closed.
- **Ctrl+L** Clear the screen, similar to the Clear command.
- **Ctrl+Z** Send whatever you are running into a suspended background process. fg restores it. The top command should be sent into the background.

Options for Displaying SSH Sessions on the Group Tab

The main SSH Group tab displays the SSH sessions in a grid by default. In this grid view the session panels do not change size, but as the user makes the Group window larger or smaller, the panels rearrange themselves in the window for optimal fit and display.

The user can change the display of SSH sessions from a grid to a stack (single column) layout, which leaves more horizontal space across the window, allowing each session to be enlarged for better visibility. The two views can be toggled back and forth using the grid and stack icons shown below.



Group 1 10.10.202.156 (s 10.10.202.156 (s	
Group 1 Rename	
② 2 active sessions in this group	
# shjhyhjhsdjh	
	Enter to send
	Clear Input Ctrl+C Ctrl+Z Ctrl+D Ctrl+L Send Command(s)
10.10.202156 (sshgroup)	10.10.202156 (sshgroup)
And a second sec	A CALE AND
The second secon	• See a gain with the set of t

Building an SSH Group

An SSH session cannot belong to more than one group at a time, so you cannot add an SSH session that already belongs to an SSH Group into a second SSH Group. But if an SSH session does not belong to any group, you can add it to an existing SSH Group by detaching the session tab from a window and dragging and dropping the tab into the Group window. Once a session has been added to a Group, you cannot remove the session from the group by detaching its tab and dragging it elsewhere.

Closing an SSH Group

You cannot close an SSH Group by closing the Group tab or by removing the active sessions. The only way to close an SSH Group is to close the Group window.

SSH Tunneling

SSH tunneling is a method to transport additional data streams within an existing SSH session. To create an SSH tunnel, left click on an SSH connection. The **Edit SSH Connection** window appears.

In the Tunnels tab, you will see available tunnels, if any, as well as the ability to add a new tunnel.

Edit Secu	ure Shell (SSI	H) Connection		
General	Advanced	Private Key File	Tunnels	
Available Tu	innels 0 items			
Add a Tunne	el			
Local Port				
Destination	Server			
Destination	Port	•		
			Cancel	Save

Connection Manager supports a variety of Delinea Platform and Secret Server workflows associated with remote connections and the workflows functions are very similar to Secret Server such as:

- Multi-factor authentication
- Require Comment
- Check in or Check out (Able to check-in a secret if it was checked-out by the same user)
- Change Password on Check-in

- Prompt for Reason or Ticket System
- Request Access
- QuantumLock

Users will see a notification in the secret properties pane and if a Secret has a workflow associated with it, Connection Manager will prompt you for the appropriate workflow options in the Properties pane. Please see the Secret Server Secret Workflows.

Once the workflow is successful, the connection is established.

Accessing Secrets Guarded by Multi-Factor Authentication

Delinea Platform users can access secrets guarded by MFA through Connection Manager. The authentication challenge can be completed via external or internal browser. When a user attempts to access a secret guarded by MFA, they will see a message that they must complete an additional MFA challenge:

٥Ĵ	Connection Manager	🖸 Cor	nnections				
-∿-	Active Sessions	OSC	car.normandy			Ð	Q
G	Recent		25 Items All Templates			C #	Test Secret 10101010 C X
7	Shared With Me		NAME A				
☆	Favorites		NAME 1	SECRETTEMPLATE	POLDER PATH		
ď	Connections		Ilya's Sesion Recording Secret	Active Directory Acc	oscar.normandy/Shared		
() 0	Local Connections		LinuxDockerServer	Unix Account (Privil	oscar.normandy/Shared		
A	Internal Vault		Office Manager - Bob	Contact	oscar.normandy/Shared		
8	oscar.normandy		RAS Demo - Azure Linux	Unix Account (Privil	oscar.normandy/Shared		\bigcirc
>	 Personal Folders Shared 		RAS Demo - Azure Windows	Windows Account	oscar.normandy/Shared		
۵	Super Secret Vault		RAS Demo - RemoteApp (Secret	Windows Account	oscar.normandy/Shared		Multifactor Authentication
			Salesforce	Web Password	oscar.normandy/Shared		Required You must complete your
			Supplies Cabinet - door lock co	Combination Lock	oscar.normandy/Shared		Multifactor Challenge to view this Secret.
			Test Secret	Unix Account (Privil	oscar.normandy/Personal Folders/Oscar Normany		
			Test Secret 10101010	Windows Account	oscar.normandy/Personal Folders/Oscar Normany		Challenge
			Warehouse ADT Code Box	Security Alarm Code	oscar.normandy/Shared		
			Windows VM - Admin	Windows Account	oscar.normandy/Shared		
@	Configuration <						

After clicking **Challenge**, users will be prompted to complete the MFA challenge in a separate Connection Manager window. When the MFA challenge has been successfully completed, users can return back to Connection Manager to view or launch the secret.

\equiv									⊘ – □ ×
ď	Connection Manager	Connections							
-∿-	Active Sessions	art.decco				G		Ð	Q
C	Recent	29 Item	All Templates				G	łţ	C X
⊼ ☆	Shared With Me Favorites	NAME	Ϋ́	SECRET TEMPLATE	FOLDER PATH				Edit URL
ď	Connections	github.c	com	Web Password	art.decco/Personal Folders/Art Decco				https://github.com/signup
© A∎	Local Connections art.decco	i-love-ib	m	IBM iSeries Mainfra	art.decco				Username artdecco@mycompany.com
	Personal Folders	ilya's ba	nkaccount	Bank Account	art.decco				Password Show
	Shared	LinuxDo	LinuxDockerServer Unix Account (Privil art.decco/Shared						
		Nepal-C	Office	Windows Account	art.decco				
		New AA	Daccount	Azure AD Account	art.decco/Personal Folders/Art Decco				Launchers
		New AA	D Account	Azure AD Account	art.decco/Personal Folders/Art Decco				
		Office N	fanager - Bob	Contact	art.decco/Shared				
		Salesfor	rce	Web Password	art.decco				
		Supplie	s Cabinet - door lock co	Combination Lock	art.decco/Shared				
		Top Sec	aret Secret	Windows Account	art.decco				
		UPS		Web Password	art.decco				
		Wareho	use ADT Code Box	Security Alarm Code	art.decco/Shared				
0	Configuration <								

Secret Check Out Timer

As part of the secret workflow, Connection Manager offers a secret check out timer which informs users how much time they have remaining to access a secret. The workflow for the secret checkout timer is described below:

1. Simply click on any secret and in the right pane you will see information on whether or not the secret requires check out and how much time you will have to access the secret.

Connection Man	nager	Connections			
- ▲ Active Sessions		Delinea		0	٩
() Recent		12 items All Templates	•	\$	Secret 2 C X
➤ Shared With Me		NAME 🛧	TEMPLATE	FOLDER NAME	
☆ Favorites		Secret 1 *	Unix (SSH)	connmanagerss/Personal	
		Secret 2	Active Directory Account	connmanagerss/Personal	
Configuration		Secret 3	Unix (SSH)	connmanagerss/Personal	
Connections		Secret 4 🗯	Active Directory Account	connmanagerss/Personal	\bigcirc
O Local Connections		Secret 5	Windows Account	connmanagerss/Personal	
~		Secret 6	Active Directory Account	connmanagerss/Personal	
Folder Item	Ý	Secret 7 ★	Active Directory Account	connmanagerss/Personal	This secret requires checkout to view. You will
ConnManagerss		Secret 8 🗯	Windows Account	connmanagerss/Personal	Charth Out
Folder Item	~	Secret 9	Unix (SSH)	connmanagerss/Personal	Check Out
Folder Item	~	Secret 10	Active Directory Account	connmanagerss/Personal	
Delinea	^	Secret 11	Windows Account	connmanagerss/Personal	
		Secret 12	Active Directory Account	connmanagerss/Personal	
Folder Item	~				
Folder Item	~				
Delinea					
Uennea	<u> </u>				

- 2. If the secret requires check out, click Check Out
- 3. Once you have been granted access to the secret, you will see a timer in the right pane, along with all of the needed information about the secret.

≡				0	- 6
Connection Manager	Connections				
<u> </u>	ss-current max			Ð	Q
Active Sessions			a H	-	сx
Shared With Me	107 Items All remplates		G fi	CheckOut secret	0 //
Favorites	NAME 1	SECRET TEMPLATE	FOLDER PATH	Checkout expires in 4 minutes.	
Connections	CheckOut secret 🔺	Unix Account (SSH)	ss-current max/Personal Folders/Max/Auto test - compatibility	Check In	
Local Connections	cm.engine.host-UAccessECM	Windows Account	es auront may lEuro and Seco	CHRONIN	
Folder1	cm-engine-nost-irAccesseCM	windows Account	ss-current maxieveryone sees	Machine	
Conmanagerss - next - max	different RDPs 🔺	AD Different	ss-current max/Personal Folders/Max/Test data (don't touch)	10.10.200.20	
conmanagersss - current - me	DoubleLock secret	Unix Account (SSH)	ss-current max/Personal Folders/Max/Auto test - compatibility	Username	
da-cust	Duplicate of Duplicate of RDP Pr.	Active Directory Acc.	ss-current max/Personal Folders/Max/Test data (don't touch)/list field	Password	
ss current - Internal				- doomoid	
ss-current admin	Duplicate of SSH	Unix Account (SSH)	ss-current max/Personal Folders/Max/Test data (don't touch)	Launchers	
Ss-current max	error SSH	Active Directory Acc	ss-current max/Personal Folders/Max/Test data (don't touch)/test for	PUTTY	
	European Servers	Active Directory Acc	ss-current max/Personal Folders/Max/Test data (don't touch)/list field	putty X11 forwarding	
> 🗀 Max	European Servers 🔸	Active Directory Acc	ss-current max/Evervone Sees	Secure CRT Proxied wi	
Add Some Folders	~	,		AWS Batch	
> D Everyone Sees	Fake SSH Key	SSH Key		FileZilla SFTP - Mac	
Many Secrets Dublic Folder	Favorite secret 🔺	Windows Account	ss-current max/Personal Folders/Max/Auto test - compatibility	FileZilla Win	
Ss-next admin	gamma/sessionrecording	Active Directory Acc	ss-current max/Everyone Sees		
Ss-next max	hhhh	Windows Account	ss-current max/Personal Folders/Max		
	I have many machines	AD Account with Ma	ss-current max/Everyone Sees		
	University of the second second second	APA A			
Configuration <					

4. When the time remaining with the secret falls below the threshold set in Secret Server, the timer color will turn red to alert users that they are running out of time to access the secret.

-				•	(
Active Sessions	ss-current max				
S Recent	107 Items All Templates		C	뷰	CheckOut secret
Shared With Me	NAME 1	SECRET TEMPLATE	FOI DER PATH		Edit
Favorites		DEGRET TEMP ENTE	TOLDER MIN		Checkout expires in 1 minute.
Connections	CheckOut secret 🄺	Unix Account (SSH)	ss-current max/Personal Folders/Max/Auto test - compatibility		Check In
2 Local Connections	cm-engine-host-1/AccessECM 🔺	Windows Account	ss-current max/Everyone Sees		
conmanagerss - next - max	different RDPs 🔺	AD Different	ss-current max/Personal Folders/Max/Test data (don't touch)		Machine 10.10.200.20
conmanagersss - current - ma	DoubleLock secret	Unix Account (SSH)	ss-current max/Personal Folders/Max/Auto test - compatibility		Username Do
ss current - internal	Duplicate of Duplicate of RDP Pr	Active Directory Acc	ss-current max/Personal Folders/Max/Test data (don't touch)/list field		Password
ss-current admin	Duplicate of SSH	Unix Account (SSH)	ss-current max/Personal Folders/Max/Test data (don't touch)		Launchers
ss-current max	error SSH	Active Directory Acc	ss-current max/Personal Folders/Max/Test data (don't touch)/test for		Putty
~ Personal Folders	European Servers	Active Directory Acc	ss-current max/Personal Folders/Max/Test data (don't touch)/list field		putty X11 forwarding
> 🔄 Max	European Servers 🔺	Active Directory Acc	ss-current max/Everyone Sees		Secure CRT Proxied wi
> 🗋 Everyone Sees	Fake SSH Key	SSH Key			AWS Batch
Many Secrets Details Folder	Favorite secret 🔺	Windows Account	ss-current max/Personal Folders/Max/Auto test - compatibility		FileZilla Win
ss-next admin	gamma/sessionrecording	Active Directory Acc	ss-current max/Everyone Sees		
ss-next max	hhhh	Windows Account	ss-current max/Personal Folders/Max		
	I have many machines	AD Account with Ma	ss-current max/Everyone Sees		
	Electro de la consecto para del ana		an an investigation (Francisco Para)		

5. Users can extend the secret check out timer by clicking Extend. (Optional)

			© – Ф
Connection Manager	C Connections		
▲ Active Sessions	US Delinea	•	Q
Secont Image: Shared With Me Image: Shared With Me	I Items All Templates NAME ↑ CMUSER - Check-Out Timer - SSH ★ CMUSER - Comment - SSH ★ CMUSER - Combile Lock - SSH ★ CMUSER - MFA + Approvel - SSH ★ CMUSER - MFA + Approve + Check-Out + Comment - SSH ★ CMUSER - MFA + Approve + Check-Out + SSH ★	C H	CAUSER - Check-Out Timer - SSH Edit You have exclusive access to this secret for 2 minutes Checkin Extend Machine 10.601917 Username cmuser01 Password Launchers
Ss -current	CMUSER - MFA + Check-Out - SSH * CMUSER Approve - MFA - DoubleLock - Comment - SSH * Duplicate of 10.10.202150 - RDP-MFA-Vitaliy GitHub * MFA - 10.10.202156 - SSH * MFA - Comment 10.10.202156 - SSH *		• PUTTY

Users must enter a reason for extending the secret check out time

							Ø – ₽ ×
6 ¹	Connection Manager	Connections					
~	Active Sessions	US Delinea				¢	Q
0	Recent	31 Items All Ter	nplates			G iți	C X CMUSER - Check-Out Timer - SSH
/ ☆	Shared With Me Favorites	NAME 🕆					Edit You have exclusive access to this secret for 1
ď	Connections	CMUSER - Check-O	ut Timer - SSH 🔺				minute
0	Local Connections	CMUSER - Comme	Extend Check Out				Check In Extend
۵	FED Auth0 SAML	CMUSER - DoubleL					Machine 10.60.19.17
A	FED Auth0 OIDC	CMUSER - MFA + A	Reason*	Extend Reason			Username
	FED Azure SAML FED Okta OIDC	CMUSER - MFA + A					cmuser01 Password
Ā	FED Okta SAML	CMUSER - MFA + A					Launchers
Å	QA Cust ss -current	CMUSER - MFA + C					PuTTY
6	US Delinea	CMUSER - SSH					
	MFA MFA	CMUSER Approve -			Cancel Extend Check Out		
		Duplicate of 10.10.20	2150 - RDP-MFA-Vitaliy			_	
		GitHub ★					
		MFA - 10.10.202.156 -	ssh ★				
		MFA - Comment 10.1	10.202.150 - RDP 🔶				
		MFA - Comment 10.1	0.202.156 - SSH ★				
â	Configuration						

Important: The extend check out functionality needs to be configured in Secret Server.

Note: Connection Manager automatically checks in secrets after the user logs off the endpoint server. To

total connection manager datematically checke in coordia and the deer lege a		
	Secret Server	Application Language
	Dashboard	LAUNCHER SETTINGS (RUNTIME)
	Secrets Control Inbox Reports Administration	The settings in this section apply only to laur of the Protocol Handler from this server, see Enable Launcher Enable Protocol Handler Auto-Update Send Secret URL to Launcher Allow the server to Retrieve Website Content Allow Web Launcher Mappings to be Downloade Allow Web Launcher Mappings to be Uploaded O
	Г	Check In Secret On Launcher Close
	L	Close Launcher on Check In Secret
		PROTOCOL HANDLER SETTINGS (INSTALL-TIME) The settings in this section are applied only a only take effect for new installations. Users in configuring these settings via Group Policy is
prevent this from occurring, please adjust the relevant setting in Secret Server.	Delinea <	Enable Install-Time Settings

Troubleshooting

This section provides helpful troubleshooting tips and answer to frequently asked questions.

- General
- "CM Crashing When Offline and Checking Certificates" on page 169
- AVBlock Error with Session Recording
- Host Names
- Encryption
- Licensing
- Generate Additional Log Entries

Log Files

The Connection Manager log files can be found at the following default locations:

Windows Log File Location

C:\Users\{username}\AppData\Roaming\Delinea\Connection Manager\ConnectionManager.log

CEF Browser Log File Locations

- C:\Users\{username}\AppData\Local\CEF\User Data
- C:\Users\{username}\AppData\Roaming\Delinea\Connection Manager\CefBrowser.log

MacOS Log File Location

```
~/Users/{username}/Library/Application Support/Delinea/Connection
Manager/ConnectionManager.log
```



Note: If a user installs Connection Manager for all users on the machine, the log files will be located in: ~/Users/{username}/Library/Application Support/Delinea/Connection Manager/ConnectionManager.log

Changing the Log Level

On Windows system the default log level can be changed via the **Delinea.ConnectionManager.exe.config** file. Under *log4net* search for the default **INFO** level and change it to **DEBUG** for detailed troubleshooting logging.

On macOS you change the logging level of Connection Manager's logs to DEBUG mode by opening **Terminal** and typing:

defaults write com.Delinea.ConnectionManager Log.FileLevel Debug

Note: For Connection Manager versions 1.7 and older, the directory names will use *Thycotic* instead of *Delinea*

Generating Additional Log Entries

Should you need to generate more detailed logging to help troubleshoot Connection Manager issues, you can set the log level to DEBUG per the steps below. Setting the log level to DEBUG will generate larger log files so it is recommended that you return the setting back to INFO when you are done troubleshooting.

- 1. Open the Application Configuration File:
 - Windows default location:C:\Program Files\Delinea\Delinea Connection Manager\Delinea.ConnectionManager.exe.config
 - macOS default location: /Users/<yourusername>/Library/Preferences/com.Delinea.ConnectionManager.plist
- 2. Find the snippet below and change INFO tO DEBUG.

Note: For Connection Manager versions 1.7 and older, the directory names will use *Thycotic* instead of *Delinea*

Before:

```
<root>
<level value="INFO" />
<appender-ref ref="LogFileAppender" />
<appender-ref ref="TraceAppender" />
</root>
```

After:

```
<root>
<level value="DEBUG" />
<appender-ref ref="LogFileAppender" />
<appender-ref ref="TraceAppender" />
</root>
```

Advanced Log Entries

Setting the log level to TRACE will enabled more advanced debugging scenarios as needed. Remember to turn off TRACE once debugging is complete as this can significantly impact log file size over an extended period of time.

```
<root>
<level value="TRACE" />
<appender-ref ref="LogFileAppender" />
<appender-ref ref="TraceAppender" />
</root>
```

MacOS Installer Log Entries

To generate MacOS installer log entries:

- 1. Check the crash reports from installer app:
 - a. Open the Console app
 - b. Select Crash Reports on the right
 - c. Check if there are any crash reports for the installer process

If there are installer crash reports:

- a. Right click on the report
- b. Reveal in Finder

Troubleshooting

c. Send as a crash report file

É Console File Edit Action V	ïew Window Help		
	Console		
Devices	All Messages Errors and	d Faults	
Reports	Process Name	Date	∨ Kind
▲ Crash Reports	coreaudiod	10/31/24, 2:59 PM	System
🛞 Spin Reports	78e11cd6-8ok-Pro-2.ips	10/31/24, 6:39 AM	System
	dotnet	10/29/24, 2:18 PM	User
Log Reports	coreidvd	10/28/24, 10:35 AM	User
🎾 Diagnostic Reports	bird	10/25/24, 8:10 PM	User
	78e11cd6-8ok-Pro-2.ips	10/23/24, 10:42 PM	System
Mac Analytics Data	78e11cd6-8ok-Pro-2.ips	10/16/24, 4:18 PM	System
🕒 system.log	78e11cd6-8ok-Pro-2.ips	10/9/24, 11:16 AM	System
	78e11cd6-8ok-Pro-2.ips	10/1/24, 9:35 AM	System

2. Check the /var/log/install.log file

Send this file to the Delinea Support team, if you have permission to do so.

Downgrading to an Older Version of Connection Manager

Older versions of the Connection Manager installer are unable to downgrade through the installer UI. As such, users wishing to downgrade need to manually uninstall the application prior to installing the new application version.

In addition, users using Delinea Vault Connections, Local Connections, and Custom Settings require additional steps to ensure a smoother downgrade experience.

Delinea Vault Connections

When downgrading to an older version of Connection Manager with connections from a Delinea Vault, please authenticate to the vault to retrieve the connections.

Note: Delinea Vault credentials will need to be readded to access these connections.

Local Connections

When downgrading with local connections, first export the local connections as JSON using the steps included in "Exporting Connections" on page 86.

Important: Please ensure to keep this file in a secure location as credentials are not encrypted.

Next, implement the Connection Manager downgrade and reimport the local connections using the steps from "Importing JSON Files" on page 86.

Custom Settings

While the "Application Configuration File" on page 136 must be readjusted for each version change, "User Configuration File for Windows" on page 142can be manually copied and work as expected.

Fixing the .DAT File Location After Upgrading on macOS

These instructions explain how to fix the .DAT file location after upgrading Delinea Connection Manager on macOS. This resolves an issue where Connection Manager occasionally saves session files in the incorrect folder, resulting in the loss of local connections.

Expected File Location

After upgrading Connection Manager, local connection files may occasionally save in an **incorrect** location, such as:

/Users/\$USER/Documents/Library/Application Support/Delinea/Connection Manager/ConnectionManager.dat

The **expected** location for local connections is:

/Users/\$USER/Library/Application Support/Delinea/Connection Manager/ConnectionManager.dat

Possible Solutions

Solution 1: Move the File Manually to the Correct Location (Recommended)

- 1. Close Connection Manager.
- 2. Move all files stored in incorrect local connection file directory by the executing the following command in the terminal:

```
rsync -r "/Users/$USER/Documents/Library/Application Support/Delinea/Connection
Manager/" "Users/$USER/Library/Application Support/Delinea/"
```

3. Execute the following command in the terminal to change the local connection file directory:

```
defaults write com.Delinea.ConnectionManager Env.DataLocation
"/Users/$USER/Library/Application Support/Delinea/Connection Manager"
```

Solution 2: Reinstalling Connection Manager (Not Recommended)

Note: This solution is not recommended as all local connections, Delinea vaults, and custom configurations will be lost.

- 1. Uninstall Connection Manager.
- 2. Remove preferences file by running the following command:

plist '/Users/\$USER/Library/Preferences/com.Delinea.ConnectionManager.plist'

- 3. Remove the incorrect local connection file directory located at: /Users/\$USER/Documents/Library/Application Support/Delinea/Connection Manager/
- 4. Reinstall Connection Manager.
- 5. Launch Connection Manager and choose the correct local connection file directory location at: /Users/\$USER/Library/Application Support/Delinea/Connection Manager/ConnectionManager.dat

Troubleshooting Auditing Issues

Password Displayed Events Occurring in the Audit Log or System Log

If a user accesses a secret or launches a session via Connection Manager, a password displayed event may be triggered in the audit log or system log even if the password was not displayed. To prevent this from occurring, administrators need to filter their report by the *Application* column and remove all rows that contain "CM" or "Connection Manager".

Secret Server	Secrets >		D Launch Platform	○ ⑦ ⊕ 📮 & 🗉 🐢
Dashboard	Folders [Nepal-Office ☆ © Overview Security Audit Dependencies St	naring Settings Metadata	More ∽ ≲ ^g Launch
Inbox II Reports Administration *	 Ouick Access ☆ Favorites ⊘ Recent ₩ Most Used Secrets 	Do not include password change log audits → UTC → 29 items DATE ↓ FULL NAME USERNAME	ACTION NOTES SESSION	IF Date 해 날 () NRECOR APPLICATION
	Checked Out	04/19/2024 12:24 Ph. Art Decco artdecco@myco 04/15/2024 03:03 Pl. Art Decco artdecco@myco	View Password Displa_ Fields: (Password	SecretServerClo
	All Polders D Personal Folders D Art Decco	04/15/2024 03:03 Pt Art Decco artdecco@myco 04/15/2024 02:53 Pt Art Decco artdecco@myco	View View	DelineaPlatform SecretServerClo
	D Shared	03/21/2024 07:44 PF Art Decco artdecco@myco 03/21/2024 07:44 PF Art Decco artdecco@myco	Password Displa Fields: (Password) View	CM CM
		02/29/2024 02:37 Pi Art Decco artdecco@myco 02/29/2024 02:37 Pi Art Decco artdecco@myco	Launch Remote Desktop H Password Displa Fields: (Password	RemoteAccessS
		02/29/2024 02:37 Pi Art Decco artdecco@myco 02/26/2024 04:53 Pi Art Decco artdecco@myco	View View	DelineaPlatform SecretServerClo
Oelinea 🔇		02/22/2024 02:44 P Art Decco artdecco@myco	Launch Remote Desktop F	RemoteAccessS

Vault Authentication Issues

Troubleshooting Vault Authentication Timeout

If your session times out prematurely, be sure to check the corresponding settings in both Secret Server and the Delinea Platform.In Secret Server, you need to check the following settings:

- Session Timeout for Webservices Set a Session time limit on Webservices API. Once Webservices expires, the user must log in again with their username and password.
- Enable Refresh Tokens for Webservices Tell OAuth2 to send back a refresh token during Authentication. This token will allow the user to get a new access token without having to enter credentials.
- Maximum token refreshes allowed Set the maximum amount of times a user can refresh an access token.



Inside the Delinea Platform, Administration > User Management > Identity Policies and check the User Idle Timeout setting:

	Administration > User Management > Identity Policies >				Q Search	0	Û C 💿
Home	Default Policy			Delete Policy			
Secret Server	Overview Authentication User security Summary						
O Inventory	Authentication Rules		Edit				
Insights	Create rules to specify conditions for authentication challenge requ rules are configured, the default authentication profile will be applie top. The rule at the top of the table will hold precedence in the polic	irements. Each rule correspond d. Arrange rules in order of prio y, overriding the default authent	s to a customizable authenticatio ity by moving the highest priority ication profile if applicable.	n profile. If no rule to the			
Policies	1 item			* C			
Access	RULE NAME		AUTHENTICATION PROFILE				
Marketolace	1 Identity cookie is not present		Default New Device Login Pr				
	Browser Session Parameters	Edit	_				
Settings	User idle timeout (Minutes)	60 Time until an idle user sessio	n expires. 1 minute to 60 minutes				
eetge	Keep me logged in	Allow the 'Keep me log browser sessions)	ged in' checkbox option at login (;	session spans			
	Session length (Hours)	2 Time until the user must re-a	uthenticate. 1 hour to 24 hours				
	Delinea Mobile Application Session Para	meters	Edit				
»	Session length (Days)	14 Time until the user must re-a	uthenticate. 1 day to 90 days				

To learn more about Connection Manager's Auto Reauthenticate parameter, please see "Enabling/Disabling Auto Reauthenticate " on page 137.

DPI Scaling Issues

Delinea recommends using a maximum of 125% scaling when running Connection Manager on full HD (1920x1080) monitors. If this scaling limit is exceeded, the Connection Manager application window size will exceed the display resolution size of your monitor.

Display Column Issues

The *Machine* Field is Not Visible in the Connection Manager Grid View

Out of the box, all Machine fields are encrypted and, therefore, can only be seen in a grid if customers adjust the Field on the Secret Server template to "Exposed for display." This unencrypts the field and allows it to show in grids without a permission check.



The Machine field is now visible:

Connections		
Delinea Platform		¢
2 Items All Templates	15	
NAME 1	MACHINE	
cm-nix-target	111.111.111.111	



Note: When you change *Expose for display* to **Yes**, there could be a short delay from background processing before all data populates.

Troubleshooting SSH Connections

If you are having issues connecting to the target host via SSH, the issue could be incorrect authentication method setup on the target host. This can be fixed by changing the "PreferredAuthentications" key in the Application Configuration file, which contains a list of preferred authentication methods.

The default values are "gssapi-with-mic,hostbased,keyboard-interactive,publickey,password" (gssapi-with-mic and hostbased are not currently supported and are included for future updates). Removing or reordering methods in this list can resolve connection issue. Possible solutions include:

- Placing the password before other methods such as: "gssapi-with-mic,hostbased,password,keyboardinteractive,publickey"
- Removing other methods completely such as: "gssapi-with-mic,hostbased,password"

Please note that these settings affect all the SSH hosts connected through Connection Manager. Therefore, removing an authentication method (for example "publickey") will make all hosts with the "publickey" access-only method unreachable.

Troubleshooting RDP Connections

Resolving Flickering Issues in MECM and SCVMM Consoles Launched via Connection Manager

If you notice flickering in the Configuration Manager Console and Virtual Machine Manager Console (MECM or SCVMM), you can resolve the issue by the following the steps below:

- 1. Open the Application Configuration file. (See "Application Configuration File" on page 136 for more information)
- 2. Add the following parameter after the ScreenShotQueueLimit parameter:



- 3. Save the changes.
- 4. Open the application(s) to see if the flickering still exists.

RDP Connection Timeout Issues

If you are experiencing connection timeout issues when using a VPN, firewall or any other software that negatively impacts the network speed, try increasing the SSH Inactivity Timeout setting in the Application Configuration File. See "Configuring RDP Connection Timeout Over TCP" on page 139 for more information.

Troubleshooting Proxies

To troubleshoot issues with proxies, start by <u>Enabling Debug Mode in the DE Log Files</u> inside Secret Server. In addition to the DE logs, users can see the IP address of the distributed engine they have connected to in order to help troubleshoot issues.

Issues With the Clipboard Functionality

If you are experiencing issues with the clipboard functionality (copy/paste), please try the following:

1. Check if clipboad access is enabled on the secret

Delinea	Secrets > Personal Folders > rasauto@automa	tion >	Q Search the Delines	Platform	0 6	0
Home Secret Server	Folders E	AD-DomainUser1 ☆ G General Security Audit Dependencies Sharing Settings Metai	iata		Launch	More ~
& Assets	Guick Access Access Favorites	Send Email When Viewed	io			(
🗍 Insights 🗸	Recent Most Used Secrets Shared With Me	Send Email When Changed N Send Email When Heartbeat Falls N	0			l
m Marketplace		RDP Launcher Choose your personalized RDP louncher settings for this secret. The settings defined will apply to sessions launched by Photocol Handler and Connection Manager.	Edit			
	D rasaute@automation	Enforce these RDP Settings for All Users	0			
	D bill	Connect to Console	o			
	Customerissues	Allow Access to Printers	io			
	D RemoteApps	Allow Access to Drives N	0			
	🗅 Srini	Allow Access to Clipboard	ia i			
	TestFolder WindowsAndSSHServer	Allow Access to Smart Cards	o			
		Use Custom Window Size	0			
		Window Height				
		Window Width				

Note: If you are mapping a local connection to a secret, make sure the clipboard functionality is also enabled on the secret.

2. Make sure the clipboard functionality is enabled for RDP.

Global Configurations

RDP Global Settings	SSH Global Settings	Preferences	Launcher Setting
Initial Size	Auto		-
Auto-fill	This option will trigge when the window is r	er an automatic recor esized.	nect event
Color Depth	True Color (24 bit)		•
Run As Admin			
Local Devices	Select resources to use i Printer Clipboard	n remote session: Drives Smart Cards	Specify Drives
Windows Shortcuts	Only when using the	full screen	•
Audio Playback	This Computer		•
Audio Recording			
		Cancel	Save

AVBlock Error with Session Recording

Connection Manager utilizes a third-party library for video encoding known as AVBlocks. This library performs a license check through the URL 1ms.primosoftware.com.



Note: This is a third-party check for licensing.

The license is checked infrequently and cached in the username\local\temp\primosoftware.lm.cache folder on Windows. If the license check fails, Connection Manager will be unable to record a session and provide an error message, although all other functionalities will continue to operate normally.

Note: Connection Manager's AVBlock license was recently extended.

Thycotic.Video.AVBlocks.Common.AvBlocksException

To facilitate this process, we recommend open network access via port 80 (HTTP) and 443 (HTTPS). If it is not possible to keep the ports open continuously, please use allow port 80 and 443 access to primosoftware.com and its subdomains through DNS filtering or other appropriate mechanism depending on your company policies for client machines.

In some cases, Connection Manager may cache and invalid license on the client machine. In this case, we recommend deleting the contents of the cache folder for all affected users.

In Connection Manager when attempting to launch a Secret Server Secret that has session recording enabled, the session may fail to launch and return an exception error in the logs.

Examples of these error exceptions:

- ERROR Delinea.ConnectionManager.Core.ViewModels.ExplorerViewModel: Unhandled exception in Connect: Autofac.Core.DependencyResolutionException: An exception was thrown while activating Delinea.ConnectionManager.SecretServer.SecretServerSessionBackgroundWork.
- ERROR Delinea.ConnectionManager.Core.Managers.ErrorProcessingManager: Show error to user: An exception was thrown while activating Delinea.ConnectionManager.SecretServer.SecretServerSessionBackgroundWork.

Problem

This is caused when a component that Connection Manager uses for session recording starts caching an invalid license for that component on the client machine. The invalid license causes an rdpwin.exe error for the recorded session when it launches, resulting in the error messages as shown in the examples above.

AVBlocks can call home to a licensing server, here https://lms.primosoftware.com/, from the client endpoint where the Protocol Handler is installed and it creates a local cache of the licence in %temp%\primosoftware.lm.cache.

If the access to the license server is then blocked, the cached license will eventually expire and cause a PH recording error:

Failed to open transcoder: Error=Unlicensed feature Facility=AVBlocks, Code=9, Hint=vp8-enc;

This can be seen in 6.0.0.13 and newer logs with verbose logging enabled in C:\Program Files\Thycotic Software Ltd\Secret Server Protocol Handler\log4net-rdp.xml.

Workaround

- 1. Re-enable access to https://lms.primosoftware.com/.
- 2. Delete the contents of %temp%\primosoftware.lm.cache for all affected users.

CM Crashing When Offline and Checking Certificates

Issue

If a Connection Manager end user is using untrusted certificates in their environment while they are offline, CM will try to reach out to an MS DNS to confirm the certificate. This happens even after a DNS sinkhole is set on that domain through the host file. But because there is no outbound internet connection, CM pauses while waiting indefinitely for a confirmation that will never come, eventually freezing and crashing.

Resolution

To resolve this issue, edit the local group policy using the information in the article, <u>An Automatic Updater of</u> Untrusted Certificates for Windows.

Encryption

- Encryption for CM login:
 - 256-bit encryption > AES 256. To check its integrity, we use HMAC + AES 256

General

What are the default locations for the Connection Manager application and log files?

Windows, application file: C: $\Program Files \Delinea Software Ltd \Delinea Connection Manager on windows$

Windows, log file: C:\Users\Appdata\Roaming\Delinea\Connection Manager

macOS, application file: Applications/delinea/Connection Manager.app

macOS, log file: users/<username>/library/application support/delinea/Connection Manager

Is there a local session timeout for sessions within Connection Manager (CM)?

Yes. - For Local Connections, the Windows default socket connect timeout applies (e.g. standard RDP/SSH remote session timeout). The session timeouts on secrets can be set in Secret Server (SS).

I'm seeing a Connection failed error message while trying to connect to SS

Connection failed reason: Request to Secret Server failed. Internal server error. An error has occurred. Seeing this error upon connection to SS means the currently installed version of SS is lower than 10.7.

Is there a way to refresh the SS connections?

Yes. - The Secret Server connection got a refresh button with the 1.2.0 version update.
Where and how is the data for Connection Manager stored?

A Connection Manager data file containing the list of connections is stored in C:\Users\\AppData\Roaming\Delinea\Connection Manager. The file is stored using AES 256 (256-bit) encryption.

Is there a way to push scripted code out to multiple SSH sessions at one time for updates or commands?

Is there a way to send a scripted file out to multiple PuTTY sessions at once using commands?

There is currently no support to run this type of action from Connection Manager. This is sometimes done with X11, but we do not currently support that connection type. There is a Feature Request in the backlog to add support.

What happens if the SS Heartbeat fails?

Connection Manager does monitor Secret Server heartbeat. If an active RDP/SSH session detects a heartbeat failure the session will be closed automatically.

Is there any current performance data for Connection Manager? Including: general memory, amount of space needed, number of open connections that can be made at one tie, etc.

We are getting more information. Currently we have tested with up to 30 open connections. Some of the performance numbers will depend on the system hardware for the machine that is running Connection Manager.

While recording a session, if a user isn't on tab, what's the behavior? Do we reduce what we record and send? Or does it stay the same? How can we tell if it's the "focus"?

We follow the same behavior as the Secret Server session recording. If a user is not on the Tab, then we record and send less information.

Note: For Connection Manager versions 1.7 and older, the directory names will use *Thycotic* instead of *Delinea*

Host Names

We follow these general naming conventions and constraints:

https://support.microsoft.com/en-us/help/909264/naming-conventions-in-active-directory-for-computers-domains-sites-and

An underscore "_" in the host name is not currently supported. The underscore has a special role, as it is permitted for the first character in SRV records by RFC definition, but newer DNS servers may also allow it anywhere in a name. For more details, see: http://technet.microsoft.com/en-us/library/cc959336.aspx

Licenses

Does a Current Customer Drop in the Platinum Trial License Key Into Their Current Secret Server Instance to Receive the Connection Manager Feature?

Yes, if the platinum trial license was created recently.

Does it Matter, if Connection Manager is Working With a Different Secret Server Instance Than the One Aligned With the Trial Key?

Connection Manager can connect to any Secret Server instance that is licensed with the Connection Manager Addon license for Secret Server.

Is it Okay to Add a Trial License to a Production Server? Will it Overwrite or Add to the Current License?

It should add and run alongside the current license. While the Trial is active, they will have access to Secret Server Platinum level features, but once the trial expires, they will revert to their existing license.

Are There Any License Restrictions to connection-manager?

If users do not have a license, they may see the following message when connecting - "connection-manager is currently not licensed for secret-server. You may still download it to test with locally stored connections.

Manually Cleaning the Connection Manager File System

To manually clean up the Connection Manager file system, you need to remove files and folders specified below, and then clear Registry entries specified below.

Instructions for Windows Users

Remove files and folders

Remove the specified files and folders at the following paths:

- C:\Users\UserName\AppData\Roaming\Delinea (folder **Delinea** must be deleted)
- C:\Users\UserName\AppData\Local\Delinea_Inc
 (folder Delinea_Inc must be deleted)
- C:\Program Files\Delinea
 (folder Delinea Software Ltd must be deleted)
- C:\ProgramData\Delinea\

(Delete this folder entirely)

Clear entries from the Registry

Clear entries from the registry as specified below:

- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\sslauncher
- HKEY_CURRENT_USER\Software\Delinea
- HKEY_LOCAL_MACHINE\SOFTWARE\Delinea Inc
- HKEY_CURRENT_USER\Software\Classes\sslauncher
- HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Internet Explorer\Version Vector
- HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Internet Explorer\Version Vector

In addition, run regedit, search for and remove all registry keys that contain "delinea" as part of a key name.

Instructions for macOS Users

- Delete /Applications/Delinea/ directory (which holds the Delinea Connection Manager and ProtocolHandler apps)
- Delete /Users/<userID>/Library/Application Support/Delinea/ directory (which holds user settings.dat, logs, and ConnectionManger.dat)
- If you want to save your Local Connections, you will want to copy the ConnectionManager.dat elsewhere before deleting the directory above
- If you want to save your Global Configuration settings, you will want to copy the Settings.dat elsewhere before deleting the directory above
- Open Terminal and run the command (this should delete install receipts, typically MDM's check against install receipts before they push a required package. If that is the case, as it is here, the MDM will see the application still installed and won't push):
- sudo pkgutil --forget com.Delinea.ConnectionManager
- Delete /Users/<userID>/Library/Preferences/com.Delinea.ConnectionManager.plist

Release Notes

Connection Manager Version Compatibility with Secret Server

Your Connection Manager version is compatible with any Secret Server version released within the 12 months preceding the Connection Manager release.

Example: For Connection Manager Version 1.6.2 that was released in August 2021, the oldest Secret Server compatible version would be 10.9.000000, which was released in August 2020.

Release Notes History

The following Connection Manager release notes are available:

Release Notes

- "2.6.1 Release Notes " on page 175
- "2.6.0 Release Notes" on page 175
- "2.5.4 Release Notes" on page 177
- "2.5.3 Release Notes" on page 178
- "2.5.2 Release Notes " on page 179
- "2.5.1 Release Notes (Windows Only)" on page 180
- "2.5.0 Release Notes" on page 180
- "2.4.0 Release Notes " on page 182
- "2.3.1 Release Notes " on page 183
- "2.3.0 Release Notes " on page 183
- "2.2.0 Release Notes" on page 184
- "2.1.0 Release Notes" on page 185
- "2.0.1 Release Notes" on page 186
- 2.0.0 Release Notes
- 1.9.7 Release Notes
- 1.9.6 Release Notes
- 1.9.5 Release Notes
- 1.9.2 Release Notes
- 1.8.0 Release Notes
- 1.7.1 Release Notes
- 1.7.0 Release Notes

Changelog

A chronological list of documentation changes to help track additions, deletions, and contents edits other than spelling and grammar corrections.

Connection Manager Version Compatibility with Secret Server

Your Connection Manager version is compatible with any Secret Server version released within the 12 months preceding the Connection Manager release.

Example: For Connection Manager Version 1.6.1 - Released August 2021, the oldest Secret Server Version compatible would be 10.9.000000, released in August 2020.

November 2024

2.5.4 Release Notes, refer to "2.5.4 Release Notes" on page 177

October 2024

2.5.3 Release Notes, refer to "2.5.3 Release Notes" on page 178

July 2024

2.5.2 Release Notes, refer to "2.5.2 Release Notes " on page 179

April 2024

- 2.5.1 Release Notes, refer to "2.5.1 Release Notes (Windows Only)" on page 180
- 2.5.0 Release Notes, refer to "2.5.0 Release Notes" on page 180

January 2024

2.4.0 Release Notes, refer to "2.4.0 Release Notes " on page 182

November 2023

- 2.3.1 Release Notes, refer to "2.3.1 Release Notes " on page 183
- 2.3.0 Release Notes, refer to "2.3.0 Release Notes " on page 183

September 2023

• 2.2.0 Release Notes, refer to "2.2.0 Release Notes" on page 184

August 2023

2.1.0 Release Notes, refer to"2.1.0 Release Notes" on page 185

July 2023

• 2.0.1 release notes, refer to <u>Release Notes</u>

May 2023

2.0.0 release notes, refer to <u>Release Notes</u>

April 2023

- 1.9.7 release notes, refer to <u>Release Notes</u>
- 1.9.6 release notes, refer to <u>Release Notes</u>

January 2023

1.9.5 release, refer to <u>Release Notes</u>

September 2022

1.9.2 release, refer to <u>Release Notes</u>

April 2022

- 1.8.0 release, refer to <u>Release Notes</u> for details.
- Updated Connection Manager to reflect Delinea Inc. rebranding along with our new company colors and icons.

November 2021

- 1.7.1 hotfix release, refer to <u>Release Notes</u> for details.
- 1.7.0 release, refer to <u>Release Notes</u> for details.
- Added section, <u>Using SSH Session Groups</u>
- Added more command line arguments to the <u>documentation</u> and we clarified related content such as which arguments should be used for installation and which should be used for startup.
- Added information to the <u>documentation</u> identifying default folders for macOS.
- Updated and clarified content in the <u>documentation</u> on Global Configuration options and their related behaviors.

2.6.1 Release Notes

Release Date: April 24, 2025

Improvements

Added a new Env.OptionAsMetaKey configuration setting on MacOS to allow for better handling of special characters and symbols when working with SSH connections. See "Configuring Special Characters in SSH Connections on MacOS" on page 141 for more information.

Fixed Issues

 Fixed an issue where RDP connections using mapped secrets would reconnect to the distributed engine server when proxy is enabled. [643314]

MacOS Specific

 Resolved an issue where the pipe symbol would not work for RDP connections with German keyboard layouts. [638935]

2.6.0 Release Notes

Release Date: March 31, 2025

DAs of the 2.6 release, MacOS 12 (Monterey) is no longer supported. See "System Requirements" on page 6 for more information on supported operating systems.

In the 2.6 release, the CEF browser was updated to the latest version. This can cause additional files to appear in the C:\Users\[username]\AppData\Roaming\Delinea\Connection Manager folder.

For mapped secrets with a proxy enabled, Connection Manager selects the target host from the local secret. In previous versions, the target hosts were selected from the secret on the server

Features

- Users can now complete challenges to secrets guarded by MFA via external browser. See "Accessing Secrets Guarded by Multi-Factor Authentication" on page 152 for more information.
- Connection Manager now offers MacOS users a fullscreen display for a more native experience.
- The SSH terminal on MacOS was upgraded for improved performance, usability, and convenience. See "Using SSH Session Groups" on page 146 for more information.

Improvements

- Administrators can now centrally disable local vault for all users both during and after installation. See "Disabling Local Vault via Admin Enforcement" on page 17 for more information.
- Users can now launch files attached to secrets using Connection Manager. See "Attaching Files to Secret Launchers" on page 127 for more information.
- Users can now adjust the scrollback buffer size on MacOS to update the amount of lines they can scroll back inside the SSH terminal. See "Adjusting the SSH Scrollback Buffer Size on MacOS" on page 140 for more information.
- Important: The configuring SSH and RDP connection timeout over TCP parameters are now measured in seconds, as opposed to milliseconds. For more information on how this change will effect Windows and MacOS users, see "Configuring SSH Connection Timeout Over TCP" on page 140 and "Configuring RDP Connection Timeout Over TCP" on page 139.
- Users can now filter secrets by template when searching for a secret. See "Template Search " on page 27 for more information.
- After upgrading to version 2.6, Connection Manager will now relaunch automatically after upgrade. See "Updates" on page 9 for more information about this and other upgrade improvements.

Fixed Issues

- Fixed an issue where Connection Manager was not honoring the Browser Session Parameters. [562777]
- Fixed an issue where Connection Manager was not preserving the search results secrets in sub folders after a launching session. [570749]
- Fixed an issue where Connection Manager would ignore the machine name on mapped secrets for local SSH connections. [567590]
- Fixed an issue where users were not able to launch secrets from Secret Server when using Connection Manager as the protocol handler. [588139]
- Fixed an issue where Connection Manager would display an access denied message when attempting to convert a mapped secret to another template. [419431]

Windows Specific

- Fixed an issue where Connection Manager would display an error when clicking the RDP launcher after upgrading to version 2.5. [567956]
- Fixed an issue where no action was concurring after clicking Next in the Edit Vault window. [563159]
- Fixed an issue where the Connection Manager pin to start icon was no longer functional after upgrade. [604588]
- Fixed an issue where Connection Manager would display an error message when attempting to add a vault connection on 2.5.x. [608438]
- Fixed an issue where RDP sessions would close unexpectedly in Connection Manager version 2.5.3. [625811]
- Fixed an issue where Connection Manager was intermittently displaying a "Value cannot be null. Parameter name: rgb" error message when connecting to Windows servers. [628737]

MacOS Specific

- Fixed instability issues in Connection Manager when attempting to print documents from RDP secrets with shared printers. [584126]
- Fixed an issue where Connection Manager would display an incorrect default path for .DAT file after install.
 [596858]

2.5.4 Release Notes

Release Date: December 5, 2024

Improvements |

- Connection Manager now offers a simplified authentication flow when authenticating to Secret Server via external browser. Users no longer need to click on a Secret Server page to launch Connection Manager. See " Authenticating to Secret Server via External Browser " on page 47 for more information.
- Connection Manager now makes it easier for users to troubleshoot distributed engine connection issues. See "Troubleshooting Proxies" on page 166 for more information.
- The Screenshot Queue Limit error message has been updated for improved clarity. See "Setting the Screenshot Queue Limit" on page 138 for more information.
- Administrators can now preconfigure multiple vaults so that users do not have to create connections themselves when opening Connection Manager for the first time. See "Pre-Configuring Vault Connections on Install " on page 13 for more information.
- Connection Manager now allows users to customize the RDP connection timeout over TCP (Windows). See "Configuring RDP Connection Timeout Over TCP" on page 139 for more information.
- When a new version of Connection Manager is available, users will see the version number of the latest version and a link to the release notes.
- The *About* page was updated with new icon and text styling.

Fixed Issue

 Fixed an issues where Connection Manager would display an "Unable to Connect" error message when disconnecting from a VPN. [603286]

Windows-Specific

- Fixed an issue where users would see flickering on the Virtual Machine Manager console and Configuration Manager Console when launching a secret from Connection Manager. [560833]
- Fixed an issues where Connection Manager was displaying an error when accessing servers. [596337]

MacOS-Specific

- Fixed an issue where Connection Manager was displaying an error after encountering an error with SSH connections. [574276]
- Fixed stability issues when authenticating to Connection Manager or connecting to an RDP session. [592726]
- Fixed stability issues when upgrading to version 2.5.3 from a previous version of Connection Manager. [607181]

2.5.3 Release Notes

Release Date: October 1, 2024

Improvements

- Connection Manager now displays release candidate installer versions, making it easier to update from an older release candidate to a newer one.
- Connection Manager now supports macOS 15 (Sequoia).
- All instances of *DoubleLock* were renamed to *QuantumLock*.
- Connection Manager now allows users to customize the RDP connection timeout over TCP (MacOS). See "Configuring RDP Connection Timeout Over TCP" on page 139 for more information.

Fixed Issues

- Fixed an issue where Connection Manager was not saving the color settings for the terminal under Advanced Settings.
- Fixed an issue where Connection Manager was displaying an error when selecting a secret with an SSH Proxy.

Windows

Fixed an issue where the Connection Manager display was not adapting to the resolution of user monitors.

macOS

- Fixed an issue where users were not able to change the font family or font sizes.
- Adjusted the default value for the Screenshot Queue Limit.

Note: Prior to launching Connection Manager 2.5.3 for the first time, MacOS users will see a new password request. See "Delinea Encryption Key" on page 10 for more details

2.5.2 Release Notes

July 18, 2024

D Customers who installed a prior Early Access build, should uninstall this build and do a clean reinstallation of the 2.5.2 version of Connection Manager.

Important notice for customers upgrading from 2.5.x. The Application Configuration file in the 2.5.2 release will be moved from C:\Program Files\Delinea\Delinea Connection Manager\Delinea.ConnectionManager.dll.config to C:\Program Files\Delinea\Delinea Connection Manager\Delinea.ConnectionManager.exe.config. This means you will need to manually transfer all data from the old location to the new one.

Bug Fixes

- Fixed an issue where users were not able to import RDP connections in RDG format.
- Fixed an issue where authentication from Connection Manager toSecret Server Cloud and Secret Server OnPrem 11.7.000016 resulted in 40x error codes.
- Fixed an issue where Connection Manager would terminate Secret Server sessions without reauthenticating.

Windows Specific

- Fixed a .NET memory leak related to opening and closing RDP sessions.
- Fixed a .NET memory leak related to reconnecting to RDP sessions.
- Fixed an issue regarding closing invisible tabs.
- Fixed an issue where Connection Manager fails to start after adding proxy configuration to the configuration file.
- Fixed an issue where Connection Manager would freeze when running RDP connections with session recording.
- Fixed an issue where Connection Manager displayed a reconnect dialog window for an extended period of time.
- Fixed an issue where Connection Manager would crash with a "Cannot access disposed object" error.

macOS Specific

- Fixed an issue where Connection Manager periodically crashes
- Fixed an issue where Connection Manager quit unexpectedly after opening and closing a number of RDP sessions.
- Fixed an issue where Connection Manager periodically crashes.

Known Issues

- A memory leak can occur when disconnecting RDP sessions via the "Disconnect" button on Windows. This leak can be addressed by "Enabling the Session Status Popup on Windows " on page 138 message.
- A minor memory leak in the UI can occur when opening and closing RDP sessions. This will be addressed in a future release.
- In the event of a slow internet connection or internet connection interruption, users may encounter an "OutOfMemory" exception (or noticeably slow performance from Connection Manager) for sessions with recording enabled. The workaround for this is to increase the *ScreenshotsQueueLimit* in the Application Configuration file. See "Session Recording" on page 117 for more information.
- Connection Manager for Windows is currently not rescaling RDP sessions dragged across multiple monitors with different DPI scaling values. The workaround steps for this issue are listed below:
 - 1. In your *Program Files* folder, right-click on the *Delinea.ConnectionManager.exe* application file and select **Properties**
 - 2. Select the Compatibility tab
 - 3. Click Change high DPI settings
 - 4. Check the Override high DPI scaling behavior box and select System from the dropdown.
 - 5. Click Ok to close the Properties window

2.5.1 Release Notes (Windows Only)

Release Date: April 24, 2024

Due to ongoing memory leak issues from the .NET upgrade, this release is no longer available for download. We are actively working on a fix and will share once available. Until a fix is ready, we encourage users to download Connection Manager 2.4 for Windows and MacOS and follow these instructions to ensure as smooth an experience as possible: "Downgrading to an Older Version of Connection Manager" on page 160

Bug Fixes

• Fixed an issue where Connection Managerdisplayed an "Exception has been thrown by the target of an invocation" error when launching RDP or SSH launcher.

2.5.0 Release Notes

Release Date: April 23, 2024

Due to ongoing memory leak issues from the .NET upgrade, this release is no longer available for download. We are actively working on a fix and will share once available. Until a fix is ready, we encourage users to download Connection Manager 2.4 for Windows and MacOS and follow these downgrade instructions to ensure as smooth an experience as possible.

Features

Users can now configure the vault reauthentication behavior in Connection Manager. They can either keep the
existing behavior that automatically restarts the authentication flow or force a fresh login when their vault
session/refresh tokens have expired--mimicking the existing web API behavior. This new setting is beneficial for
users who use SAML configuration through an external identity provider with a longer session/refresh length
and enables audit logs to correctly generate upon logout.

Improvements

- The Session Status popup window is now disabled by default. This message appears every time a user signed out of a vault confirming that they have also signed out of the server. Users can reinstate this pop-up via configuration if they are experiencing any memory leak issues.
- Connection Manager now displays a "Machine" field from Secret Server, making it easier for users to identify the correct target when the secret name is not explicit. Any machine field that displays in the Secret Server grid view will also show in the Connection Manager grid view.

Deprecations

• The embedded apps functionality, on Windows, has been deprecated in the 2.5.0 release.

Bug Fixes

- Fixed an issue where Connection Manager was not displaying the server name.
- Fixed an issue where customers were unable to import connections from the Devolutions Remote Desktop Manager.
- Fixed an issue where the Secret Server version text was displayed as "Must be on Secret Server Version 11.2" instead of "Must be on Secret Server Version 11.2 or higher" when authenticating to a vault.

Windows Specific

- Fixed an issue where the "Home" and "End" keyboard buttons were not working in the Vim/Vi editor when launched via PuTTY in Connection Manager.
- Fixed an issue where a text message was displayed without an information link when using Connection Manager in dark mode.
- Fixed an issue where the "click here" button did not return RDP to full screen.

macOS Specific

- Fixed an issue where Connection Manager displayed the error message "The client and the server have no common host key algorithm" after running an SSH launcher.
 - Note: Windows configuration is now split between app configuration and user configuration.
 App configuration is located at C:\Program Files\Delinea\Delinea Connection Manager\Delinea.ConnectionManager.dll.config.
 - User configuration is located at C:\Users\%username%\AppData\Local\Delinea_ Inc\Delinea.ConnectionManager_Url_%hash%\2.5.0.0\user.config.
 - Note: If you are upgrading to 2.5 from 1.7, please upgrade to any version between 1.8 and 2.4 first before upgrading to 2.5. This will ensure you do not experience any issues with the backup functionality as part of the upgrade.
 - Note: If you experience any unusual error messages, please try uninstalling Connection Manager and doing a clean install or repair of the application.

2.4.0 Release Notes

Release Date: January 29, 2024

Features

External Browser Authentication enables users to connect to the Delinea Platform via an external browser. This allows users to reuse their existing sessions and password managers in addition to advanced functionality like biometric MFA, FIDO2 support, and conditional access configurations with their preferred identity provider.

Improvements

Users can also view updated properties and launcher panels with improved usability.

Bug Fixes

- Fixed an issue where Connection Manager was displaying the incorrect checkout time after extending checkout.
- Fixed an issue with bulk connections.

Windows Specific

- Fixed an issue where an error message was displayed after extending the checkout time.
- Fixed an issue where the Smart Card option was intermittently not being displayed in RDP sessions.
- Fixed an issue with multiple display monitors on Connection Manager version 1.9.6.
- Fixed an issue where an object reference error was being displayed when exiting out of full screen mode in SSH sessions.
- Fixed an issue where a "Cannot perform the requested operation in current session state" error was being displayed when connecting via SSH.

- Fixed an issue where Connection Manager was not able to connect to a local Secret Server connection after rebranding with a local URL.
- Fixed an issue where users were not able to start an SSH Group with multiple SSH Secrets.
- Fixed an issue where the "Extend Check Out" pop-up persists after session closure due to checkout time expiry.
- Fixed an issue where the "Connecting" message appeared and the "Reload" button was disabled when reloading Delinea Platform connections.
- Fixed an issue where the Connection Manager UI was not performing as expected when clicking or doubleclicking on secrets.
- Fixed an issue where an error message was displayed in Delinea.app tenant's log files.
- Fixed an issue where secrets could not be edited from the Explorer View.
- Fixed an issue where the "Extend Checkout" button was mislabeled in Favorites.
- Fixed an issue where Connection Manager's return URL was malformed when the connection URL contained a trailing "/".
- Fixed issues with the Connection Manager UI where users were unable to click or double click to perform certain actions.
- Fixed an issue where sessions could not be launched from the menu bar when proxy with AD site selection was enabled.

2.3.1 Release Notes

Release Date: November 21, 2023

Improvements

 PreferredAuthentications setting added that allows specifying the SSH authentication methods priority order. Leaving the PreferredAuthentications value as empty will use previous version functionality (2.2) and will not use the new methods.

Bug Fixes

• Fixed an issue with the SSH authentication method selecting.

2.3.0 Release Notes

Release Date: November 13, 2023

Features

- Connection Manager now offers support for macOS 14 Sonoma.
- Users are now able to extend the secret checkout timer directly from the Connection Manager UI. (Windows only)

 Connection Manager can now complete logins when MFA is enabled on target machines with the Delinea Privilege Control. (Windows only)

Improvements

• Auto-fill has been relabeled to Auto Resize.

Bug Fixes

- Fixed an issue where external browser login was not working correctly on Windows Server (Using the Local Group Policy Editor)
- Fixed an issue where users had to complete multiple MFA prompts after upgrading to Connection Manager version 2.0.
- Fixed an issue with a double SAML token request in Connection Manager version 2.0.1 and newer.
- Fixed an issue where the "WinWord Process Launcher" was keeping an RDP connection active, even if the user activated the "Terminate immediately" option.
- Fixed an issue where the Smart Card option was intermittently not being displayed while in an RDP session.
- Fixed an issue where auto-fill was not working correctly when changing a window's size during the launch process.
- Fixed an issue where Connection Manager was not able to launch a URL link with ":" if this symbol was entered manually.
- Fixed an issue where Connection Manager was using a high amount of GPU.
- Fixed an issue where the full screen mode was not actually full screen when using RDP Proxy.

2.2.0 Release Notes

Release Date: September 27, 2023

Features

When using local secrets mapped to vaulted secrets, Connection Manager users can now select any defined proxy site they need to use for connecting with the target specified in the local secret.

Improvements

The auto-expand feature has been improved to allow customers to automatically resize their remote connection view when working with RDP connections.

- Fixed an issue where the check in/check out information was missing from the countdown timer.
- Fixed an issue where users were unable to automatically map headers from imported CSV files.

Windows Specific

- Fixed an issue where Connection Manager did not clean up memory when connections were closed.
- Fixed an issue where users were unable to create a folder using the right click mouse button.
- Fixed an issue where the Connection Manager tab would not close correctly when attempting to exit out of a proxied connection.
- Fixed an issue where an incorrect app name was displayed in the Connection Manager installer.
- Fixed an issue where the Connection Manager remote session name tab did not display the correct machine name.
- Fixed an issue where auto resize was not working consistently when maximizing the Connection Manager window.
- Fixed an issue where a CSV file could not be imported with a tab delimiter.
- Fixed an issue with Connection Manager instability when the RDP reconnect clipboard would fail.
- Fixed an issue where the Connection Manager session tab would freeze because of multiple reconnection attempts when switching between tabs with an active RDP session.

macOS Specific

 Fixed an issue where Connection Manager would display an RDP Error "Unable to connect to Server to verify its HTTPS certificate".

2.1.0 Release Notes

Release Date: August 17, 2023 Release Date: August 14, 2023

Features

 Users are now able to access secrets guarded by MFA by completing the MFA challenge from within Connection Manager.

Improvements

- Improved scroll-back buffer size in SSH on Windows. Clients can now use a 32k-line scroll-back buffer out of the box for SSH sessions. The macOS buffer size is unlimited
- The launcher icon and text are now clickable. The hover and alt-text now mirror the label for improved accessibility [Windows]
- Connection Manager now assumes https if the user has not entered a protocol as part of their vault URL (Delinea Platform or Secret Server)

Bug Fixes

- Fixed an issue where Connection Manager's custom launcher was not displaying the correct field name
- Fixed an issue where Connection Manager was displaying an error message and allowing users to open unencrypted DAT files in the DEBUG log
- Fixed an issue where Connection Manager was not accepting SSH keys with a passphrase
- Fixed an issue where Connection Manager was displaying an invalid response when an RDP Launcher session
 was launched with a server field on Windows
- Fixed an issue where the Connection Manager launcher allowed the prompt to contain an forward slash character
- Fixed an issue where Connection Manager was displaying a warning about the version when using the external browser with Secret Server Cloud
- Fixed an issue where Connection Manager would crash after closing the popup window that is waiting for authentication
- Fixed an issue where Connection Manager was not checking secrets when connected to Secret Server Cloud using the external browser and local connection
- Fixed an issue where Connection Manager was not displaying the version of Secret Server and information text for the *Connection* dialog
- Fixed an issue where Connection Manager was displaying an incorrect URL message error message for Secret Server sites on macOS

2.0.1 Release Notes

Release Date: July 5, 2023

Improvements

• Connection Manager now supports universal-token based authentication with the Delinea Platform.

Bug Fixes

Fixed a bug that caused instability with Connection Manager when a secret was checked out by a different user

2.0.0 Release Notes

Release Date: May 24, 2023

Features

Users can add connections to their vault by using their Delinea Platform tenant URLs. Connection Manager will
connect seamlessly to their Platform tenant vault and users will be able to use secrets in the vault in the same
way as they do today with a direct Secret Server integration.

Bug Fixes

- Fixed an issue where Connection Manager was only displaying the top 30 secrets of a Secret Server folder containing more than 30 secrets.
- Fixed an issue where Connection Manager was evaluating Batch Launcher Parameters incorrectly.

Known Issues

- Audit session recordings can be found in the vault direct web portal (Secret Server web UI). The ability to send
 audit session recordings to the Delinea Platform will be added in a future release.
- Users with MFA-enabled secrets (a Platform-only feature) will not be able to use these secrets from Connection Manager version 2.0.0. A future release of Connection Manager will support this capability.
- Connection Manager version 2.0.0 does not currently support a small subset of federated logins related to Azure AD Conditional Access when used with the Delinea Platform. Support for this ability is scheduled for a future release.

1.9.7 Release Notes

Release Date: April 18, 2023

Bug Fixes

Fixed an issue on the Mac platform, where Connection Manager would crash when viewing a secret with an active "Hide Password" flag.

1.9.6 Release Notes

Release Date: April 3, 2023

Features

Connection Manager now offers support for the *Preserve SSH Client Process*. This prevents custom launchers
that result in single tabbed processes from exiting when multiple launches are pulled into it.

- Fixed an issue where a tab would not close after Connection Manager crashed.
- Fixed an issue where an incorrect *Properties* panel was displayed in the secret check-out timer.
- Fixed an issue where Connection manager would close third-party apps after the connection was terminated.
- Fixed an issue where an error message was displayed to the users when a connection was terminated after the secret check-out timer expired.
- Fixed an issue where an incorrect screen was displayed to the users after the secret check-out timer expired.
- Fixed an issue where Connection Manager would crash after updating from version 1.8 to 1.9.5.
- Fixed an issue where Connection Manager would crash when attempting to check-out two secrets.

- Fixed an issue where an incorrect *Properties* panel was displayed if the user was not able to connect to host on the secret.
- Fixed an issue where an error message was not being displayed after the checkout timer expired on a secret.
- Fixed an issue where Connection Manager would crash after clicking the *Check-Out* button.
- Fixed an issue where Connection Manager would crash after clicking *Check-In* on Secret Server in browser.

1.9.5 Release Notes (Windows)

Release Date: January 17, 2023

Features

- Connection Manager now supports custom launchers using the *Proxied SSH Process* launcher type when the *Preserve SSH Client Process* is selected. Closing the Connection Manager tab for these sessions will no longer enforce terminating the external application, allowing for other connections within the external application to continue uninterrupted.
- Connection Manager now shows a secret checkout timer which allows users to see how much time they have before the checkout expires.
- Connection Manager now offers a new version number which makes it easier for users to see which version of Connection Manager they are using from the *About* menu.

General Improvements

• When creating a new Secret Server connection, the "External browser" option will now be selected as the default connection type. This was implemented to support a security hardening initiative in Secret Server.

Maintenance Improvements

The EULA link in Help > About was updated to point to Delinea's Master Subscription and License Agreement. Previously the link pointed to the delinea.com website EULA

- Fixed an issue where users would encounter an error message after double-clicking on a connection to a Secret Server instance
- Fixed an issue where proxied RDP connections would disconnect when the screen was resized
- Fixed an issue where Connection Manager was preventing users from launching Unix secrets that use "User Input" for the launcher
- Fixed an issue where users would encounter an error when attempting to launch SSH connections from a mapped secret where an Active Directory secret template was used
- Fixed an issue where Connection Manager would crash when clicking on the Favorites folder
- Fixed an issue where the Help button in the 1.8 version of Connection Manager would take users to an old documentation page for the 1.7 version of Connection Manager
- Fixed an issue where Connection Manager would prompt users for credentials if the connection was interrupted

- Fixed an issue where Connection Manager would disable the Alt+F4 keystroke combination across all windows
- Fixed an issue where Connection Manager's RDP clipboard was rendered inoperable with the CrowdStrike Falcon agent installed on Windows

1.9.2 Release Notes

Release Date: September 1, 2022

Features

- Users can now create a Secret Server connection via an external browser. This resolves issues with limitations
 in the embedded browser that prevent some SAML logins from completing successfully.
- Users can now automatically see secrets created on new templates without editing connection settings. The 3rd step of the Edit Connection dialog now contains two options: one to select all templates including ones created later, and one to select specific templates to view in Connection Manager. The default option for new installations is All Templates and can be changed by the user by editing the Secret Server connection.
- Silent installations will now set the selected templates to All Templates. This can be changed by the user after installation by editing the Secret Server connection.

General Improvements

• Updated FreeRDP 2.4.0 to the latest version.

Security Improvements

- Updated Coverlet.Collector to the latest version.
- Updated Newtonsoft.Json to the latest version.
- Updated log4net 2.0.13 to the latest version.

- Fixed an issue where Connection Manager was not showing the full password.
- Fixed an issue where the 1.8 version of Connection Manager was missing the Refresh button in dark theme.
- Fixed an issue with the RDP Client title bar behavior with RDP Proxy. The title was not showing the target in full screen mode.
- Fixed an issue where the connections list attempted to connect to the wrong server.
- Fixed an issue where users were seeing the wrong font for SSH Local Connection after installing Connection Manager.
- Fixed an issue where users where getting an error message when clicking the **Show** button to show the password.
- Fixed an issue where Connection Manager was not honoring the *Hide Password* setting when adjustments were made at the Secret Template level

iOS Specific

• Fixed an issue where the cursor position would change when the window was resized on a Mac.

1.8.0 Release Notes

Release Date: April 19, 2022

Features

- Delinea Connection Manager now supports:
 - All M1 chipsets
 - Windows 11
- Delinea Connection Manager now allows AD Site Selection.
- This release includes the new Delinea Inc rebranding along with our new company colors and icons.

General Improvements

- Users will now be able to see the ServerName (proxied over "proxy name") in a tab header when connecting through proxy.
- We optimized load performance in larger environments with 65K or more secrets and 40K or more folders. This performance improvement should be especially noticeable on slower connections.

Bug Fixes

- Fixed an issue users were experiencing where the screen size would automatically change from the set desktop size to the one in the secret settings.
- Fixed an issue where Connection Manager command lines did not allow both -disablelocalvault and Secret Server connection switches.
- Fixed an issue where the remote host name is not displayed on the tab for proxied RDP session.
- Fixed an issue where users were unable to scroll inside Connection Manager if there is any text selected.
- Fixed an issue where an update couldn't be automated under local system account (in quiet mode)
- Fixed an issue where Connection Manager cannot be uninstalled with SYSTEM account

iOS Specific

• Fixed an issue with the Clipboard feature macOS users were experiencing, which prevented them from copying from a Mac to an RDP endpoint.

1.7.1 Release Notes

Release Date: November 30, 2021

Bug Fixes

- Fixed an issue where the login URL is not detected properly if SS URL ends with '/'.
- Fixed an issue where an error occurs when connecting to a RDP session when proxy is enabled.
- Fixed issues related to SecretServer URL validation in certain federation scenarios.
- Fixed an issue with SAML login when the Secret Server web services timeout is set to "Unlimited". We do not recommend setting the web services timeout to "Unlimited".

1.7.0 Release Notes

Release Date: November 9, 2021

Product Enhancements

SSH Grouping

 Users can now create one or more groups of active SSH sessions using a new toolbar icon or by using the Create SSH Group option in right-click context menus. By creating an SSH group, a user can send a command or series of commands in bulk to all active sessions in the group. See Using SSH Session Groups.

General

- The way Connection Manager takes screen shots of active connections has been optimized for efficient resource usage.
- Users can now drag the left edge of a secret's Properties panel to enlarge the panel.
- Users can now view helpful information about Secrets in pop-up windows by mousing over different parts of a Secret in the main Secrets view.
- On Secret Details screens, users can now manually refresh the display of the secret's information by clicking a Refresh button. The information is refreshed simultaneously in the Properties, Shared With Me, and Favorites panels.
- Using the column picker, you can now add a Heartbeat column to the main Secrets view to display heartbeat results returned by Secret Server.

The heartbeat value represents a point in time; it is not automatically updated in real time. The user must manually refresh the page yo see the most current value.

- Every password field and Private Key Passphrase field now offers the user an option to show the hidden password characters if you have View permissions. Depending upon permissions in Secret Server, you might be able to copy the password using the Copy icon, without having View permissions.
- WLOG output can now be viewed in Connection Manager debug logs for macOS.
- We added more command line arguments to the Connection Manager <u>documentation</u> and we clarified related content such as which arguments should be used for installation and which should be used for startup.
- We added information to the Connection Manager <u>documentation</u> identifying default folders for macOS.

- We updated and clarified the content in the Connection Manager <u>documentation</u> on Global Configuration options and their related behaviors.
- For secrets protected by both Checkout Required and Enter Comment workflows, users can input their comment text and then simply click the "Enter Comment" button to automatically check out the secret.

Bug Fixes

- We fixed an issue where RDP screen shots came out black when taken in full screen mode.
- We fixed an issue where auto-sizing was not working as expected.
- We fixed an issue where only the first machine was displayed in a secret's Machine field list, rather than the machine connected to when launching from Secret Server.
- We fixed an issue where Connection Manager's Map Secret feature was throwing no authentication method for .ppk (private key) files.
- We fixed an issue that arose when a user using two monitors opened an RDP connection in full screen mode on one monitor, and that monitor's active session screenshot display was black.
- We fixed an issue in the user interface that was preventing some users from connecting to the last Secret Server connection listed in the left navigation panel.

macOS Bug Fixes

- We fixed an issue where a user reconnecting to Secret Server received the error message, "Object reference not set to an instance of an object," followed by Connection Manager crashing.
- We fixed an issue where Connection Manager was crashing after a PuTTY paste with the error message, "Object referenced not set to an instance of an object."
- We fixed an issue where Connection Manager was crashing when a user performed a copy and paste in an SSH session.
- We fixed an issue where macOS (Big Sur v.11.5) was getting stuck when attempting to connect to Secret Server via Connection Manager.

Known Issues and Workarounds

- Connection Manager "Local Login" allows users to log in with their username, but if they try to log in with their UPN, the login fails.
- Connection Manager does not generated a token when the URL for a web login ends on a /.