



Connection Manager

Administrator Guide

Version: 2.5.x

Publication Date: 3/7/2025

Connection Manager Administrator Guide

Version: 2.5.x, Publication Date: 3/7/2025

© Delinea, 2025

Warranty Disclaimer

DELINEA AND ITS AFFILIATES, AND/OR ITS AND THEIR RESPECTIVE SUPPLIERS, MAKE NO REPRESENTATIONS ABOUT THE SUITABILITY OF THE INFORMATION CONTAINED IN THE DOCUMENTS AND RELATED GRAPHICS, THE SOFTWARE AND SERVICES, AND OTHER MATERIAL PUBLISHED ON OR ACCESSIBLE THROUGH THIS SITE FOR ANY PURPOSE. ALL SUCH MATERIAL IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. DELINEA AND ITS AFFILIATES, AND/OR ITS AND THEIR RESPECTIVE SUPPLIERS, HEREBY DISCLAIM ALL WARRANTIES AND CONDITIONS WITH REGARD TO SUCH MATERIAL, INCLUDING ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT.

THE MATERIAL PUBLISHED ON THIS SITE COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE PERIODICALLY ADDED TO THE INFORMATION HEREIN. DELINEA AND ITS AFFILIATES, AND/OR ITS AND THEIR RESPECTIVE SUPPLIERS, MAY MAKE IMPROVEMENTS AND/OR CHANGES IN THE MATERIAL DESCRIBED HEREIN AT ANY TIME.

Disclaimer of Liability

IN NO EVENT SHALL DELINEA AND ITS AFFILIATES, AND/OR ITS AND THEIR RESPECTIVE SUPPLIERS, BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF USE, DATA, PROFITS OR OTHER ECONOMIC ADVANTAGE) OR ANY DAMAGES WHATSOEVER, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE, OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF SOFTWARE, DOCUMENTS, PROVISION OF OR FAILURE TO PROVIDE SERVICES, OR MATERIAL AVAILABLE FROM THIS SITE.

Table of Contents

Administrator Guide	i
Introduction to Connection Manager	1
Installing Connection Manager	1
Permissions Required to Install/Uninstall Connection Manager	1
Product Versioning	1
Connection Manager Hashes	1
Version 2.5.4	2
Version 2.5.3	2
Version 2.5.2	2
Version 2.5.0	2
Version 2.4.0	3
Version 2.3.1	3
Version 2.3.0	3
Version 2.2.0	3
Version 2.1.0	3
Version 2.0.1	4
Version 2.0.0	4
Version 1.9.6	4
Version 1.9.5	4
Version 1.9.2	4
Version 1.8.0	5
Version 1.7.1 Hashes	5
Version 1.7.0 Hashes	5
System Requirements	5
Installing on Windows	6
Updates	9
Installing on macOS	9
Delinea Encryption Key	10
Enabling Screen Recording and Input Monitoring	11
Command Line Arguments	12
Pre-Configuring Vault Connections on Install	13
Disabling Local Vault on Installation	14
Enabling/Disabling Auto Reauthenticate	14
Specifying Custom Logo Images to Copy to the Proper Location	15
Delinea Platform Connection	15
Pre-Creating a Secret Server Connection	16
External Browser Connection	16
Local Connection	16
Internal Browser Connection	17
Disabling Local Vault	17

Table of Contents

Getting Started	17
Creating a Password	17
Signing into Connection Manager	18
User Interface Components	20
Main Screen	20
Menus	20
Stack Menu	20
Right Click Navigation Menu	22
Work Area Menu	23
Search	23
Global Search	23
Configuration	23
Navigation Tree	23
Active Sessions	23
Favorites	24
Shared With Me	25
Recent	25
Connections	26
Local Connections	27
Shared with me	28
Configuration	28
Properties Area	28
Work Area	29
Authenticating to a Vault	29
Authenticating to a Delinea Platform Vault	29
Authenticating to the Delinea Platform via External Browser	30
Authenticating to the Delinea Platform via Internal Browser	35
Authenticating to Secret Server	42
Secret Server Requirements	42
Authenticating to Secret Server via External Browser	43
Authenticating to Secret Server via Internal Browser	47
Authenticating to Secret Server via Local Username	52
Authenticating to a Local Vault	59
Local Vault Enabled	59
Local Vault Disabled	59
Enable or Disable Local Vault on Installation or Upgrade	59
Windows	60
Mac	60
Enable or Disable Local Vault When Authenticating to Secret Server	60
Enable or Disable Local Vault at Any Time	61
How to Change the Local Vault Location	62
Re-authenticating to a Vault	62
Modifying a Vault	63
Removing a Vault	66

Table of Contents

Session Connections	67
Remote Systems	67
Creating Connections	68
Opening Connections	68
Editing Local Connections	71
Deleting Connections	75
Duplicating Connections	76
Integrated Connections	76
Credentials	76
Map a Vault Secret to a Folder	77
Map a Vault Secret to a Connection	79
Importing and Exporting Connections	80
Exporting Connections	81
Importing JSON Files	81
JSON Example	82
Importing Devolution Files	83
Importing RDG Files	85
Importing RDP Files	86
Importing CSV Files	90
Import Local Connections	91
Field Values and Types	95
Import Completed Reports	98
CSV Import Differences	98
Global Configuration Settings	98
Windows Shortcuts	99
Globally Enforced Secret Server Settings	102
Using a Custom Logo in the Connection Manager Interface	106
Manual Procedure	106
Command Line Procedure	106
Protocol Handler Approved URLs	107
Desktop Size and Auto Expand	107
Launchers	110
Proxy Tabs Show Remote Host Name	111
Screen Resolution for New Session Window Views	111
Moving and Reorganizing Session Tabs and Windows	111
Session Recording	112
Working With Third-Party Applications (Preserve SSH Client Process)	112
Launching from Secret Server without Connection Manager Open	113
Signing In After the Launch	114
Creating a New Local Storage File	115
Solution Guide: Launching SSH Sessions with Mac-Native SSH Client	116
Use Cases	116
Prerequisites	116

Table of Contents

Setup	117
Step 1: Create a Custom Launcher in Secret Server	117
Step 2: Map the New Launcher to the SSH Secret Template in Secret Server	118
Step 3: Launch SSH Secret from Connection Manager	118
Known Issues	121
Fingerprint Confirmation	121
Common User Activities	122
Connections	122
Batch Opening Connections	123
Batch Opening Connections Using Multi-select	123
Batch Opening All Connections in a Folder	123
Batch Editing Local Connections	125
Batch Editing Local Connections Using Multi-Select	125
Batch Editing Credentials for All Connections in One or More Folders	125
Application Configuration File	126
Windows Configuration File Location	126
macOS Configuration File Location	126
Disabling Update Check on Startup for Windows	126
Disabling Update Check on Startup for macOS	127
Enabling Software Rendering for the Internal Browser on Windows	127
Enabling/Disabling Auto Reauthenticate	127
Enabling the Session Status Popup on Windows	128
Configuring Proxy Settings	128
Setting the Screenshot Queue Limit	128
Configuring RDP Connection Timeout Over TCP	129
Incorrect Handling of System Keys	129
User Configuration File for Windows	130
Windows Configuration File Location	130
Enabling/Disabling Auto Reauthenticate on Windows	130
Folder: Creating, Editing, Moving, Deleting	130
Creating a New Folder	130
Editing a Folder	132
Moving a Folder	132
Deleting a Folder	132
Transferring Files Using Local Drives	133
Using SSH Session Groups	134
Creating and Naming an SSH Group	134
Sending Commands to the SSH Group	136
Options for Displaying SSH Sessions on the Group Tab	137
Building an SSH Group	138
Closing an SSH Group	138
SSH Tunneling	138

Table of Contents

Secrets with Workflows	139
Accessing Secrets Guarded by Multi Factor Authentication	140
Secret Check Out Timer	141
Troubleshooting	145
Log Files	145
Windows Log File Location	145
MacOS Log File Location	145
Changing the Log Level	146
Generating Additional Log Entries	146
Advanced Log Entries	147
MacOS Installer Log Entries	147
Downgrading to an Older Version of Connection Manager	148
Delinea Vault Connections	148
Local Connections	148
Custom Settings	149
Fixing the .DAT File Location After Upgrading on macOS	149
Expected File Location	149
Possible Solutions	149
Solution 1: Move the File Manually to the Correct Location (Recommended)	149
Solution 2: Reinstalling Connection Manager (Not Recommended)	149
Troubleshooting Auditing Issues	150
Password Displayed Events Occurring in the Audit Log or System Log	150
Vault Authentication Issues	150
Troubleshooting Vault Authentication Timeout	150
DPI Scaling Issues	152
Display Column Issues	152
The Machine Field is Not Visible in the Connection Manager Grid View	152
Troubleshooting SSH Connections	153
Troubleshooting RDP Connections	153
Resolving Flickering Issues in MECM and SCVMM Consoles Launched via Connection Manager	153
RDP Connection Timeout Issues	154
Troubleshooting Proxies	154
Issues With the Clipboard Functionality	154
AVBlock Error with Session Recording	155
Problem	156
Workaround	157
CM Crashing When Offline and Checking Certificates	157
Issue	157
Resolution	157
Encryption	157
General	157
What are the default locations for the Connection Manager application and log files?	157
Is there a local session timeout for sessions within Connection Manager (CM)?	157
I'm seeing a Connection failed error message while trying to connect to SS	157

Table of Contents

Is there a way to refresh the SS connections?	157
Where and how is the data for Connection Manager stored?	158
Is there a way to push scripted code out to multiple SSH sessions at one time for updates or commands?	158
What happens if the SS Heartbeat fails?	158
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.	158
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"?	158
Host Names	158
Licenses	159
Does a Current Customer Drop in the Platinum Trial License Key Into Their Current Secret Server Instance to Receive the Connection Manager Feature?	159
Does it Matter, if Connection Manager is Working With a Different Secret Server Instance Than the One Aligned With the Trial Key?	159
Is it Okay to Add a Trial License to a Production Server? Will it Overwrite or Add to the Current License?	159
Are There Any License Restrictions to connection-manager?	159
Manually Cleaning the Connection Manager File System	159
Instructions for Windows Users	159
Remove files and folders	159
Clear entries from the Registry	160
Instructions for macOS Users	160
Release Notes	160
Connection Manager Version Compatibility with Secret Server	160
Release Notes History	160
Changelog	161
Connection Manager Version Compatibility with Secret Server	161
November 2024	161
October 2024	161
July 2024	162
April 2024	162
January 2024	162
November 2023	162
September 2023	162
August 2023	162
July 2023	162
May 2023	162
April 2023	162
January 2023	162
September 2022	162
April 2022	163
November 2021	163
2.5.4 Release Notes	163
Improvements	163

Table of Contents

Fixed Issue	163
Windows-Specific	164
MacOS-Specific	164
2.5.3 Release Notes	164
Improvements	164
Fixed Issues	164
Windows	164
macOS	164
2.5.2 Release Notes	165
Bug Fixes	165
Windows Specific	165
macOS Specific	165
Known Issues	166
2.5.1 Release Notes (Windows Only)	166
Bug Fixes	166
2.5.0 Release Notes	166
Features	167
Improvements	167
Deprecations	167
Bug Fixes	167
Windows Specific	167
macOS Specific	167
2.4.0 Release Notes	168
Features	168
Improvements	168
Bug Fixes	168
Windows Specific	168
2.3.1 Release Notes	169
Improvements	169
Bug Fixes	169
2.3.0 Release Notes	169
Features	169
Improvements	169
Bug Fixes	169
2.2.0 Release Notes	170
Features	170
Improvements	170
Bug Fixes	170
Windows Specific	170
macOS Specific	171
2.1.0 Release Notes	171
Features	171
Improvements	171
Bug Fixes	171

Table of Contents

2.0.1 Release Notes	172
Improvements	172
Bug Fixes	172
2.0.0 Release Notes	172
Features	172
Bug Fixes	172
Known Issues	172
1.9.7 Release Notes	173
Bug Fixes	173
1.9.6 Release Notes	173
Features	173
Bug Fixes	173
1.9.5 Release Notes (Windows)	173
Features	174
General Improvements	174
Maintenance Improvements	174
Bug Fixes	174
1.9.2 Release Notes	174
Features	175
General Improvements	175
Security Improvements	175
Bug Fixes	175
iOS Specific	175
1.8.0 Release Notes	175
Features	176
General Improvements	176
Bug Fixes	176
iOS Specific	176
1.7.1 Release Notes	176
Bug Fixes	176
1.7.0 Release Notes	177
Product Enhancements	177
SSH Grouping	177
General	177
Bug Fixes	177
macOS Bug Fixes	178
Known Issues and Workarounds	178

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 2.5.4

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 f7065e116fb2da88c0638d8ad9509e904aeceeb8e6d608a2f8f7e56445ce8d3f

Version 2.5.2

Windows Installer Hashes for **Delinea.ConnectionManager.WindowsInstaller.msi**

- SHA1 1346d7e83193ecaec818dc42e8fc2156a1d6bf2
- 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 91c7a23bcd911a1c3adda58d37a6b44a3630213
- SHA256 3494ab7f2c655371e83632142d423cdd4460abadd6938b75a39cae304d27898d

Mac Installer Hashes for **Delinea.ConnectionManager.MacOSInstaller.pkg**

Installing Connection Manager

- 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 b78f4fceb367f92a74345088ae2fda8512f55fcd77edbb4acc6d2c464be07a3

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**

Installing Connection Manager

- 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 – e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855

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 – 343c82d10b79abcf9302b7b1772f4caa8637047
- 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:

Installing Connection Manager

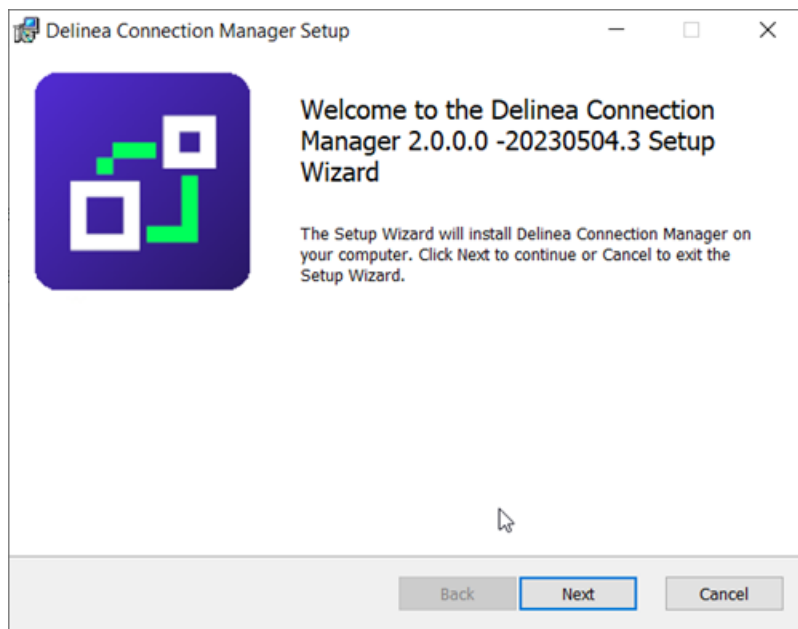
- Microsoft Windows: Windows 10 or later, Windows Server version 2016 or later; 8GB RAM.
- Apple macOS: 12 (Monterey), 13 (Ventura), 14 (Sonoma), 15 (Sequoia); 8GB RAM. Both Intel and Apple based systems are supported.

Minimum requirements for connectivity to Secret Server vaults:

- Secret Server Version: 10.7 or later

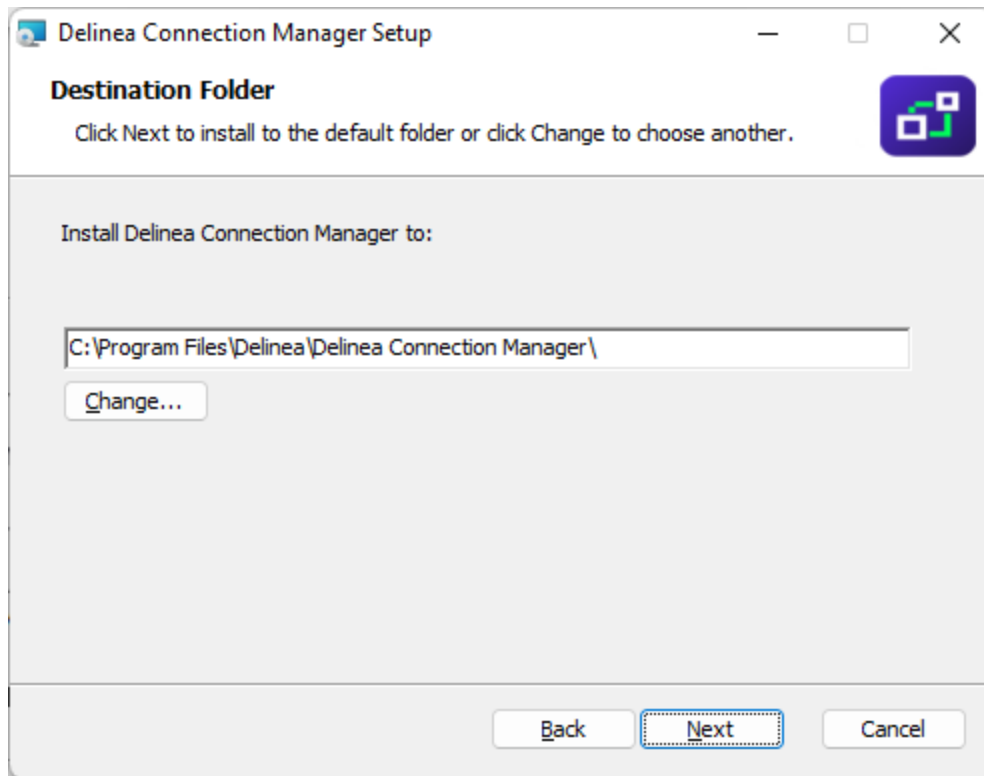
Installing on Windows

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



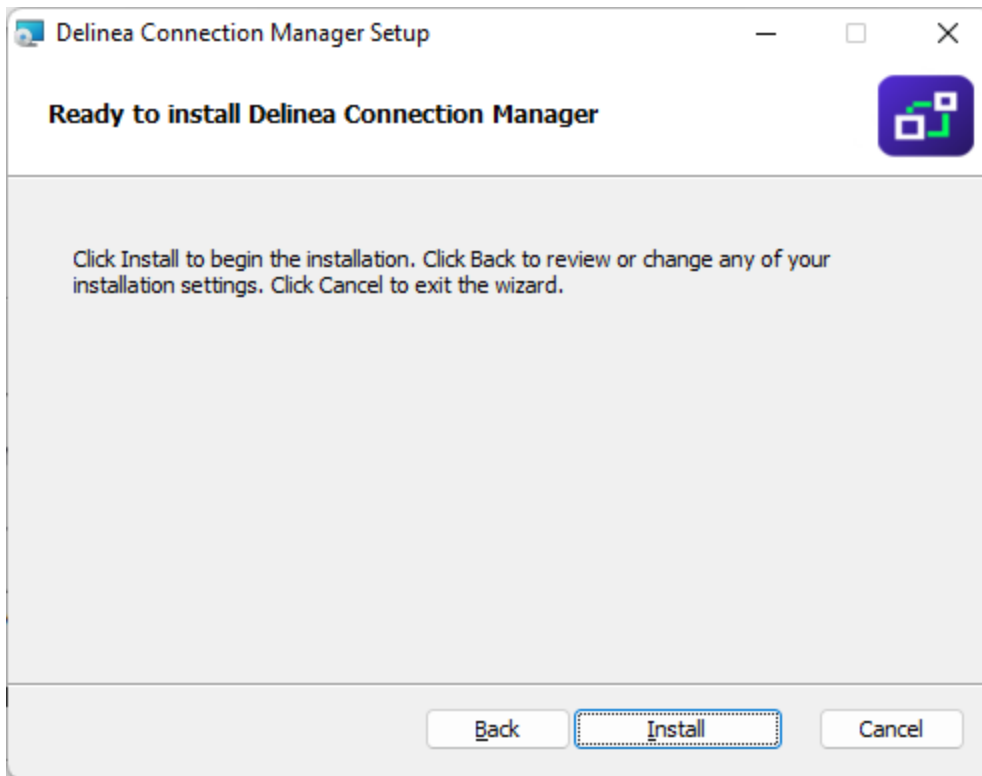
3. Click **Next** to continue.

Installing Connection Manager

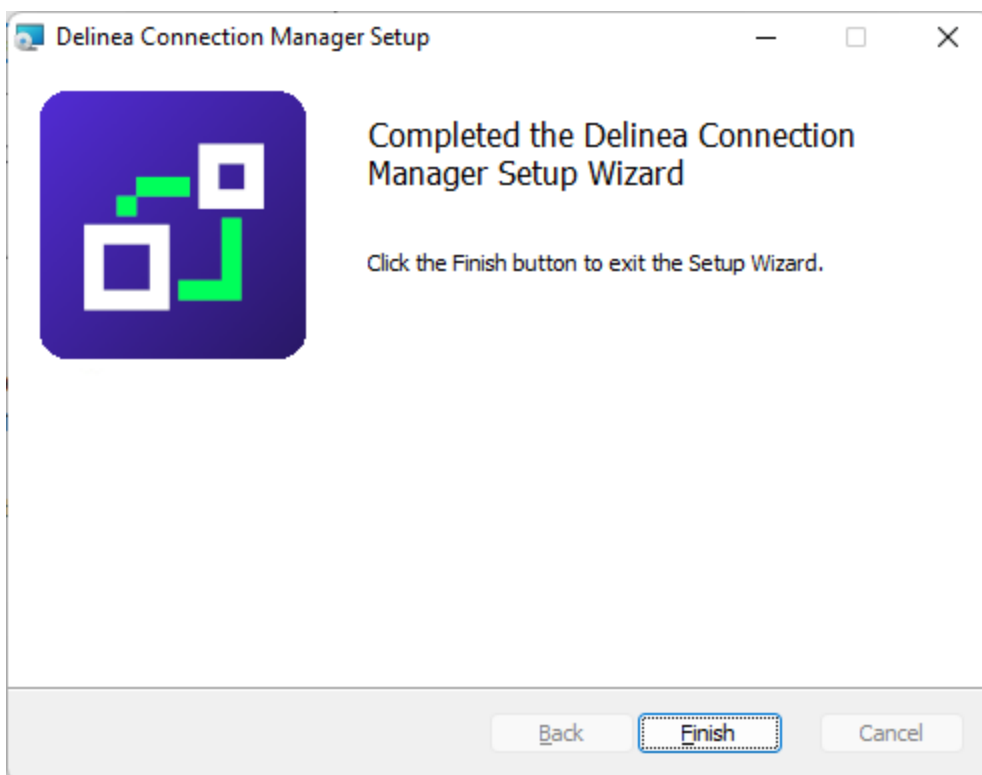


4. Select the **location to install Connection Manager** or leave the default location.
5. Click **Next** to confirm the location and accessibility for the install.

Installing Connection Manager



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



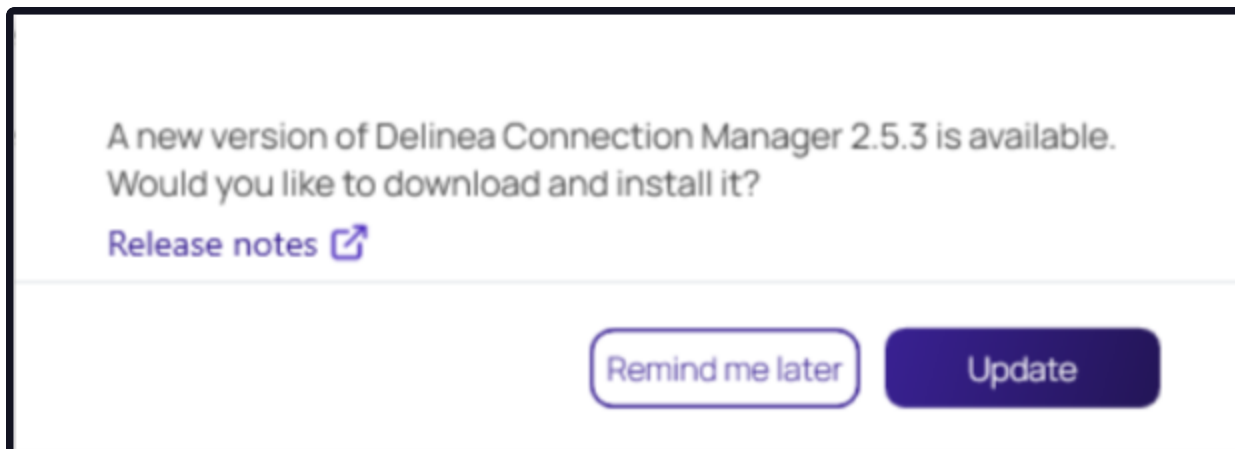
Installing Connection Manager

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 **Download** 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.



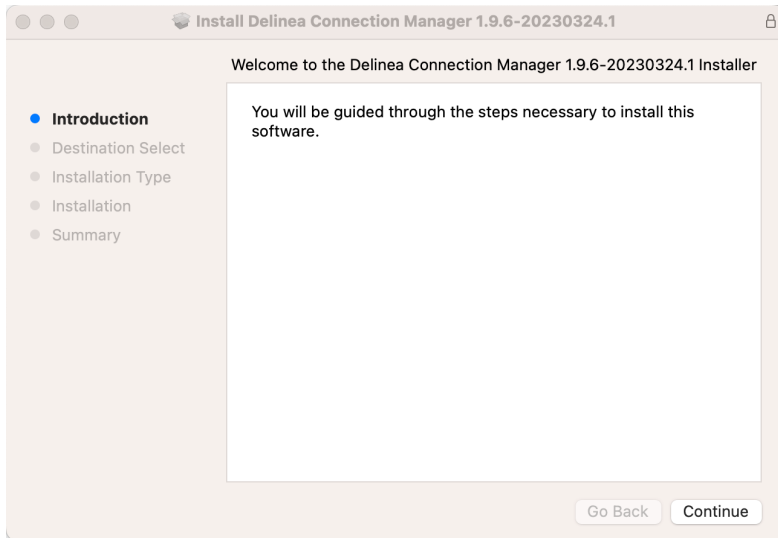
Installing on macOS

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.

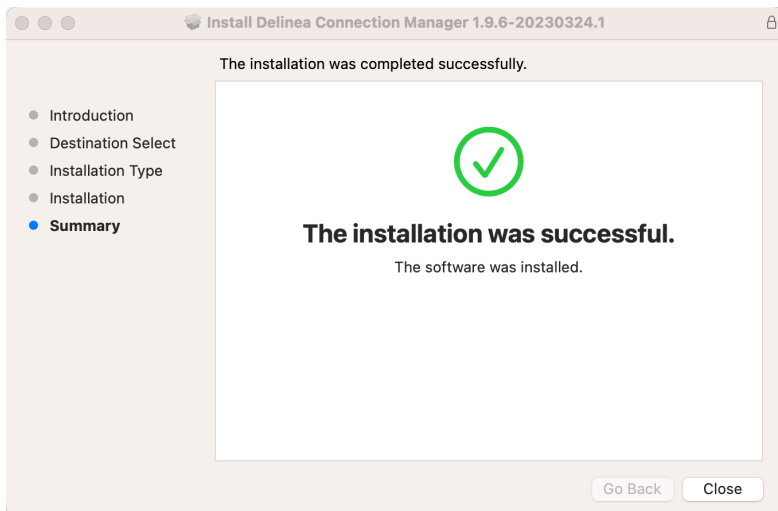
3. Navigate to the DMG file and double-click to open, or right-click and select **Open**. The install window opens.
4. Click, drag, and drop the Delinea Connection Manager logo to the Applications folder. The installation begins.

Installing Connection Manager



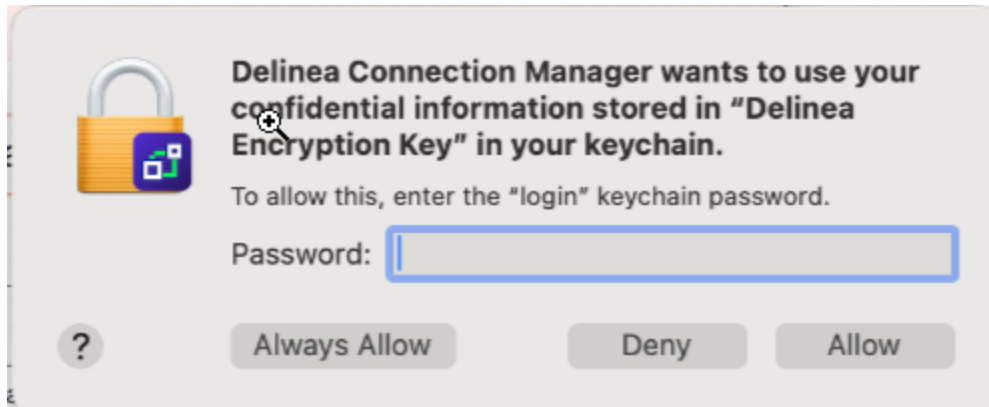
5. Once Connection Manager has been added, close the installer window.

 **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**.



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,
}
```

Installing Connection Manager

```
"SecretTemplates":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

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:

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

Installing Connection Manager

```
"UserName": null,  
"Password": null,  
"Domain": null,  
"AuthType": "Local",  
"TwoFactorAuthType": "None",  
"PinCode": null,  
"StoreCredentialsInLocalStorage": false,  
"SecretTemplates": 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

Installing Connection Manager

```
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:

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

Delinea Platform Connection

Example for Windows

Installing Connection Manager

```
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"'
```

Getting Started

Internal Browser Connection

Example for Windows

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

Example Powershell Command Line

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


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 42](#)
- [Create a Password](#)
- [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 re-entered.

Getting Started

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*


[Browse](#)

Password*

Must include 8 characters, 1 upper, 1 lower, 1 number and 1 symbol (@#\$%&)

Confirm Password*

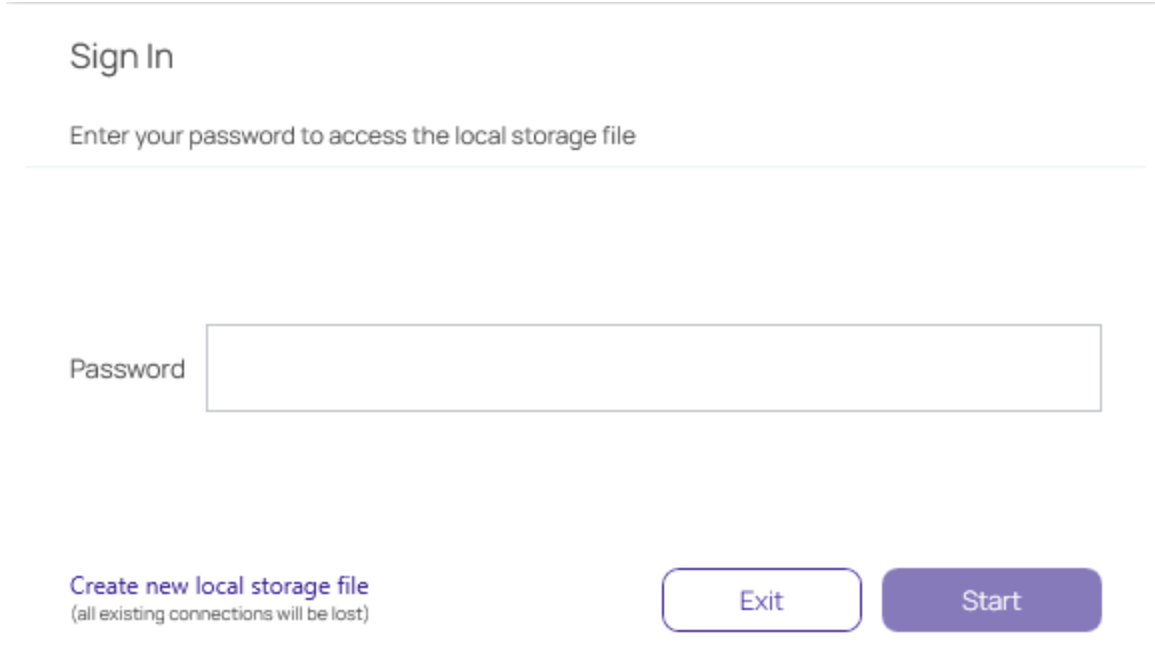
2. Enter the **password** to start the application.
3. Confirm the password and click **Create**.

 **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.

Signing into Connection Manager

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

Getting Started



Sign In

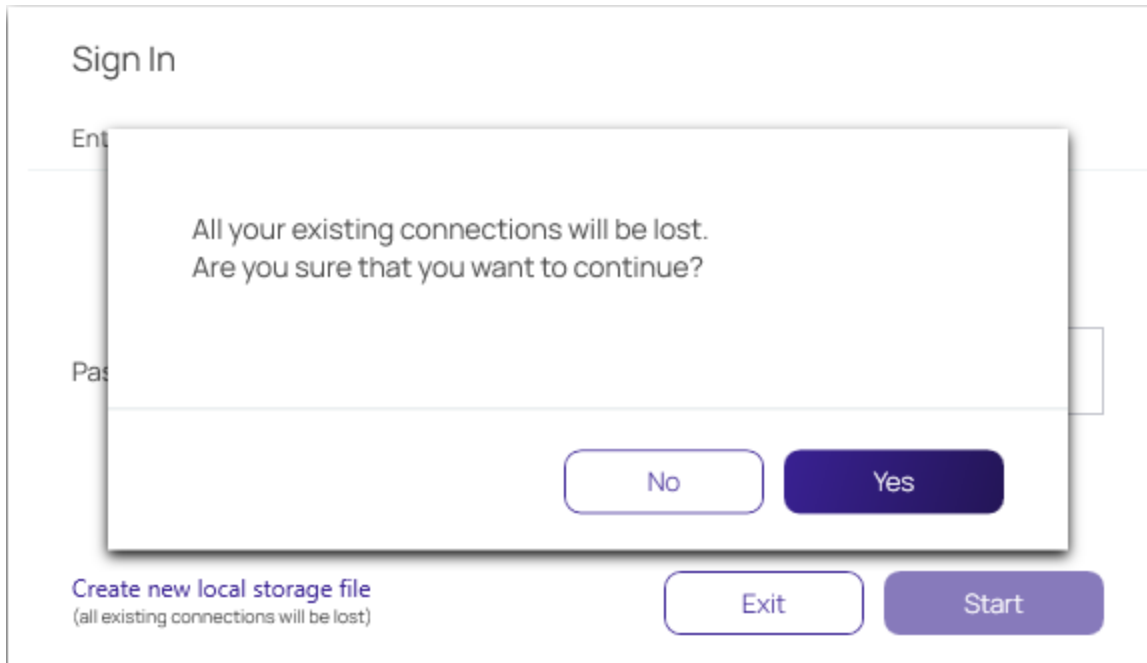
Enter your password to access the local storage file

Password

[Create new local storage file](#)
(all existing connections will be lost)

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.



Sign In

Ent

Enter your password to access the local storage file

Pa

[Create new local storage file](#)
(all existing connections will be lost)

All your existing connections will be lost.
Are you sure that you want to continue?

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, double-click menus, and others.

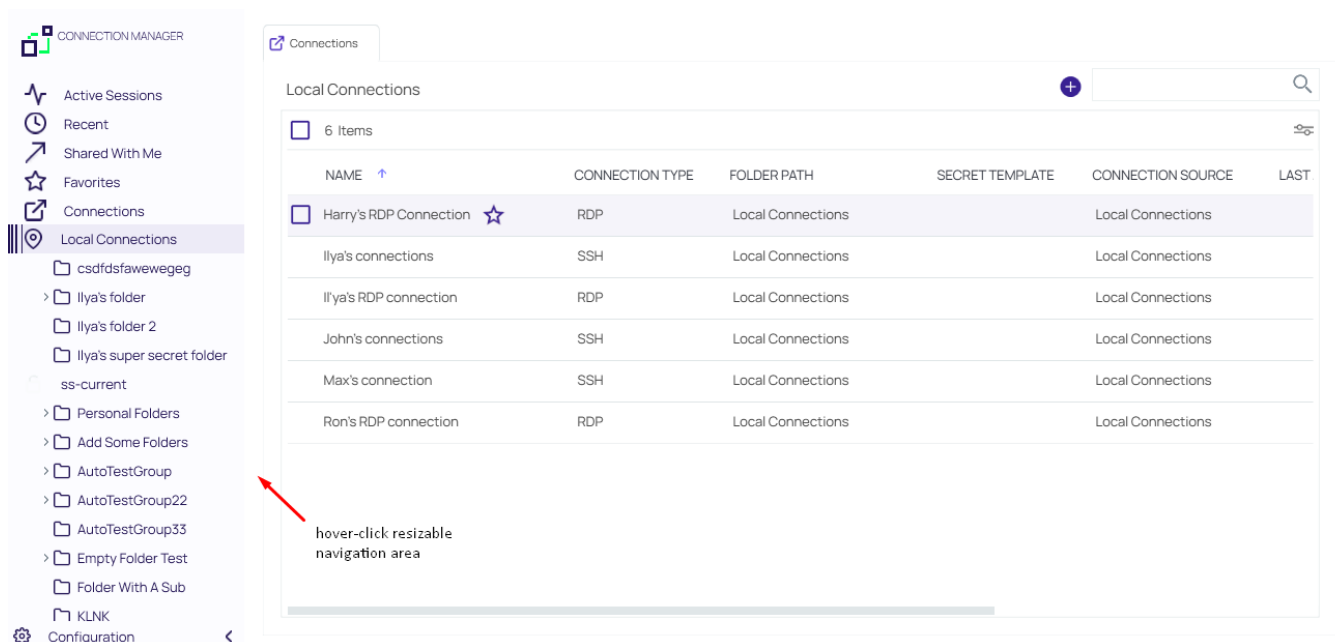
- [Main Screen](#)
- [Navigation Tree](#)
- [Work Area](#)
- [Properties Area](#)
- [Menus](#)

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.



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.

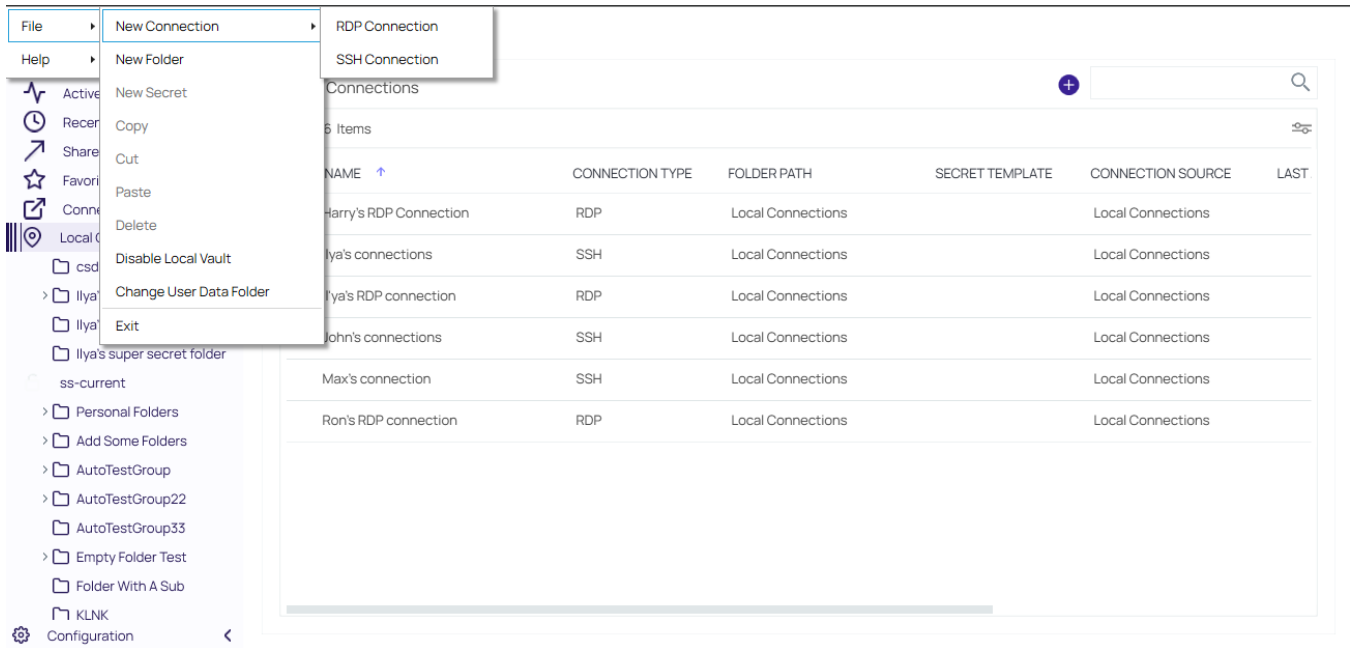
Getting Started




File

Under File you can do the following:

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

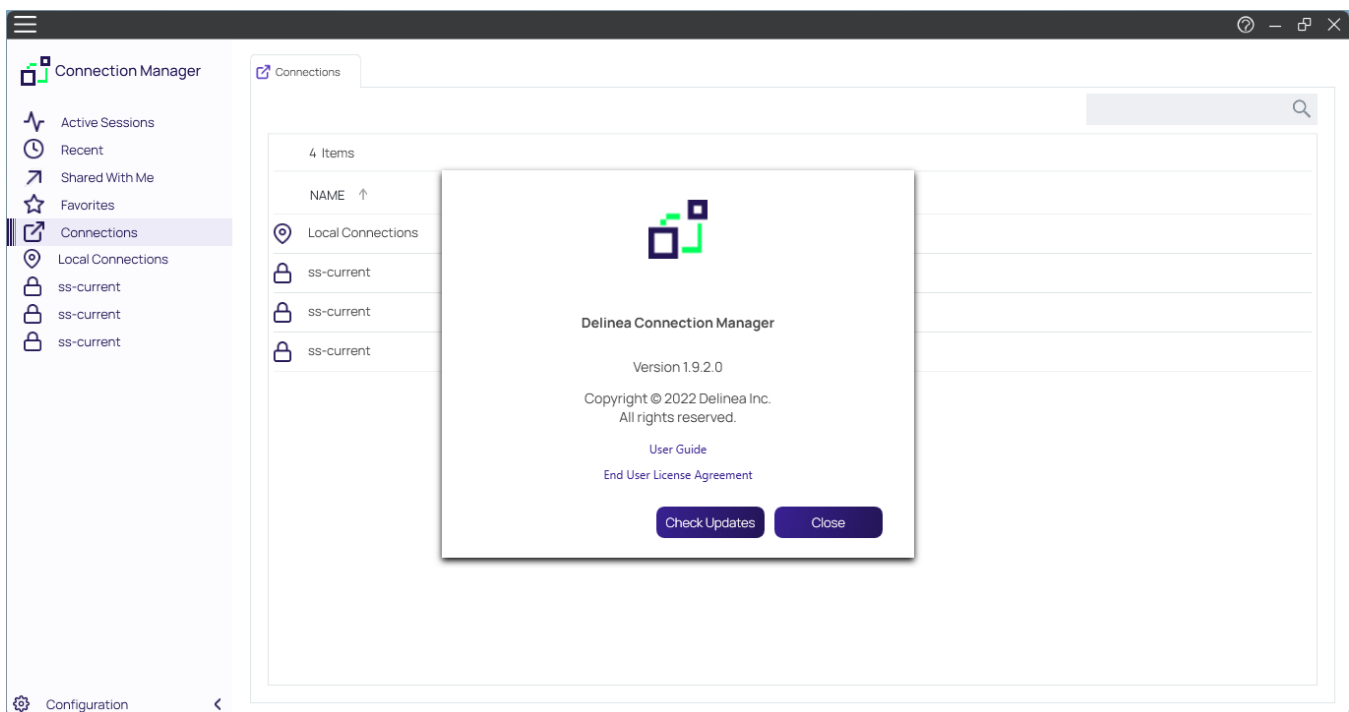
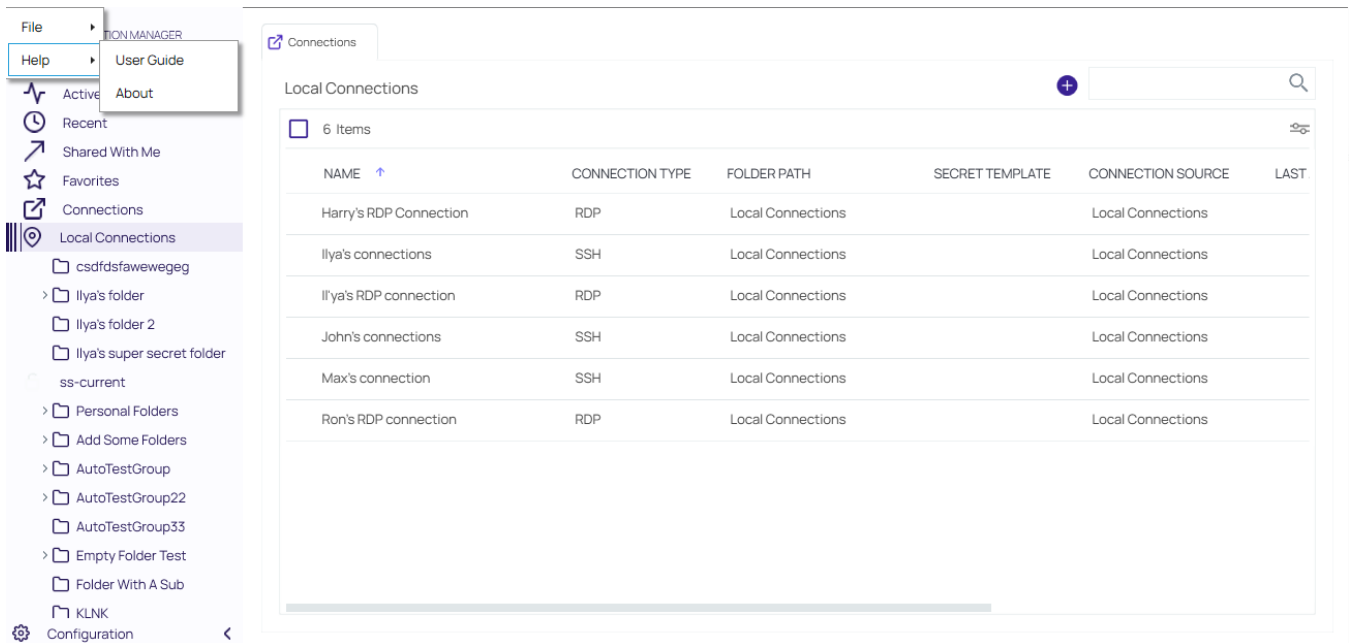


 **Note:** The Stack menu is context sensitive so the available, displayed options depend on what is currently selected in the navigation tree or the main work area.

Help

Under Help you can select User Guide and About:

Getting Started



Right Click Navigation Menu

Right clicking a folder allows you to:

- Create new folders
- Create new connections
- Delete folders

Getting Started

- 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.

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

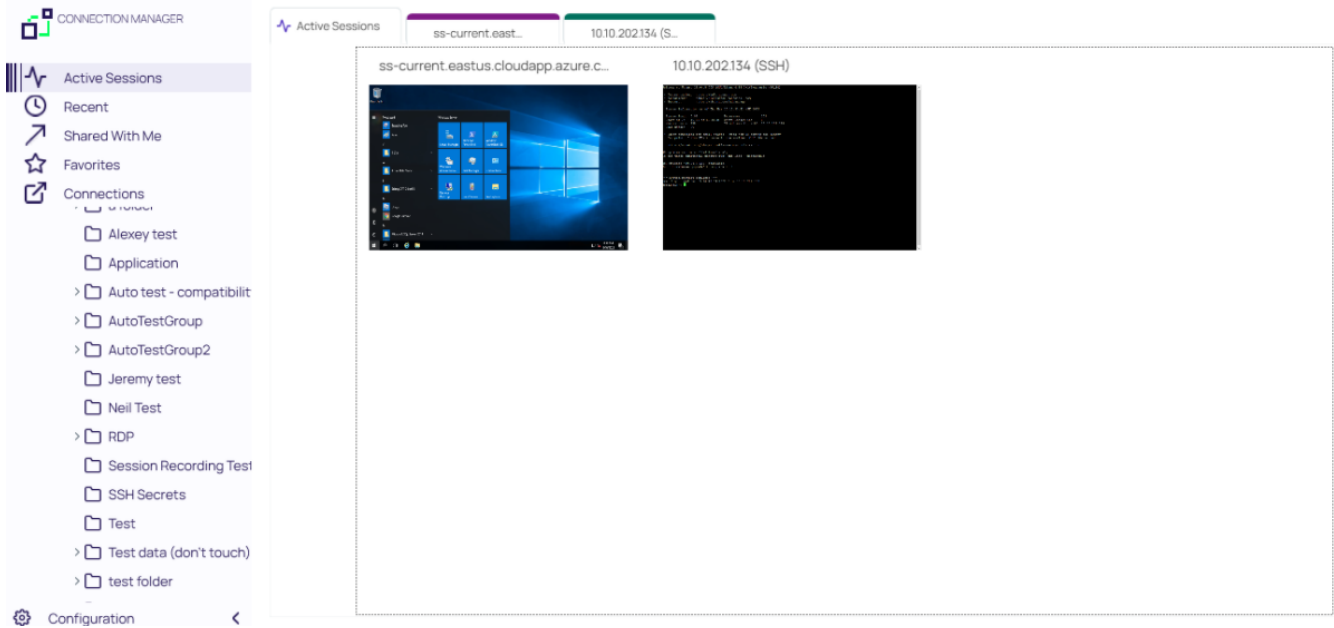
Located at the bottom left of the application screen, the Configuration button allows users to set up and control various aspects of the application.

Navigation Tree

Active Sessions

Select to view all active sessions.

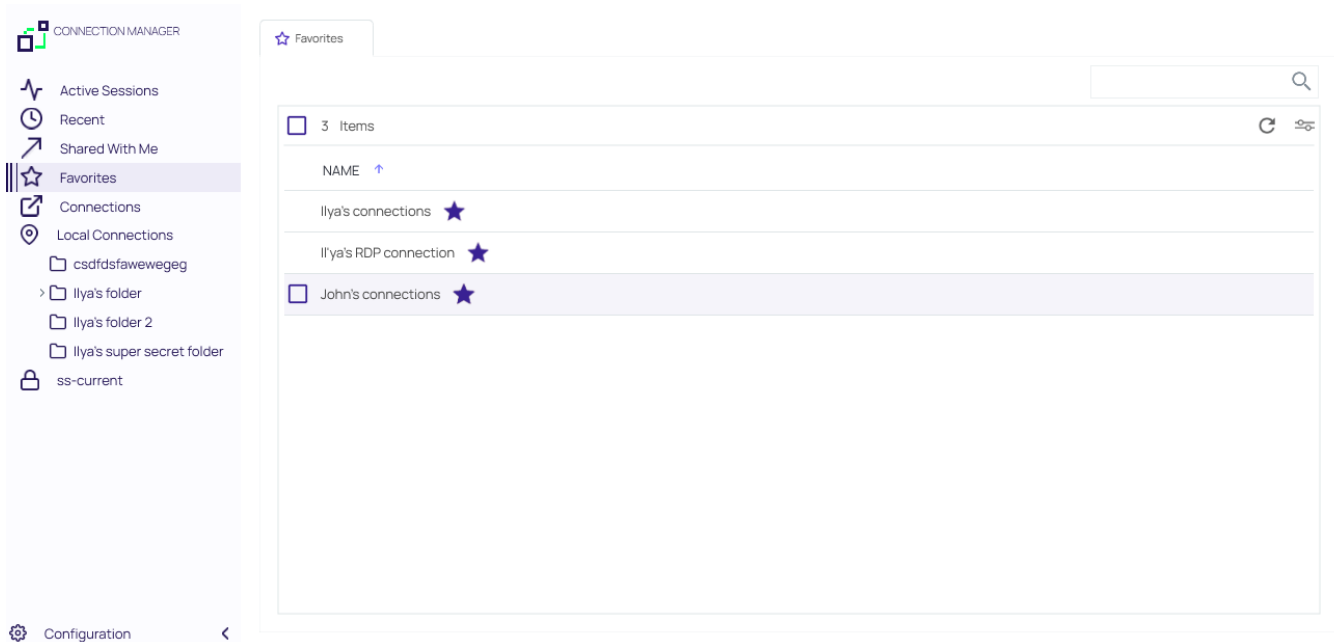
Getting Started



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 page showing local and Secret Server connection favorites:

Getting Started

NAME	CONNECTION TYPE	FOLDER PATH	CONNECTION SOURCE
Ilya's connections	SSH	Local Connections	Local Connections
Ilya's RDP connection	RDP	Local Connections	Local Connections
John's connections	SSH	Local Connections	Local Connections

Shared With Me

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

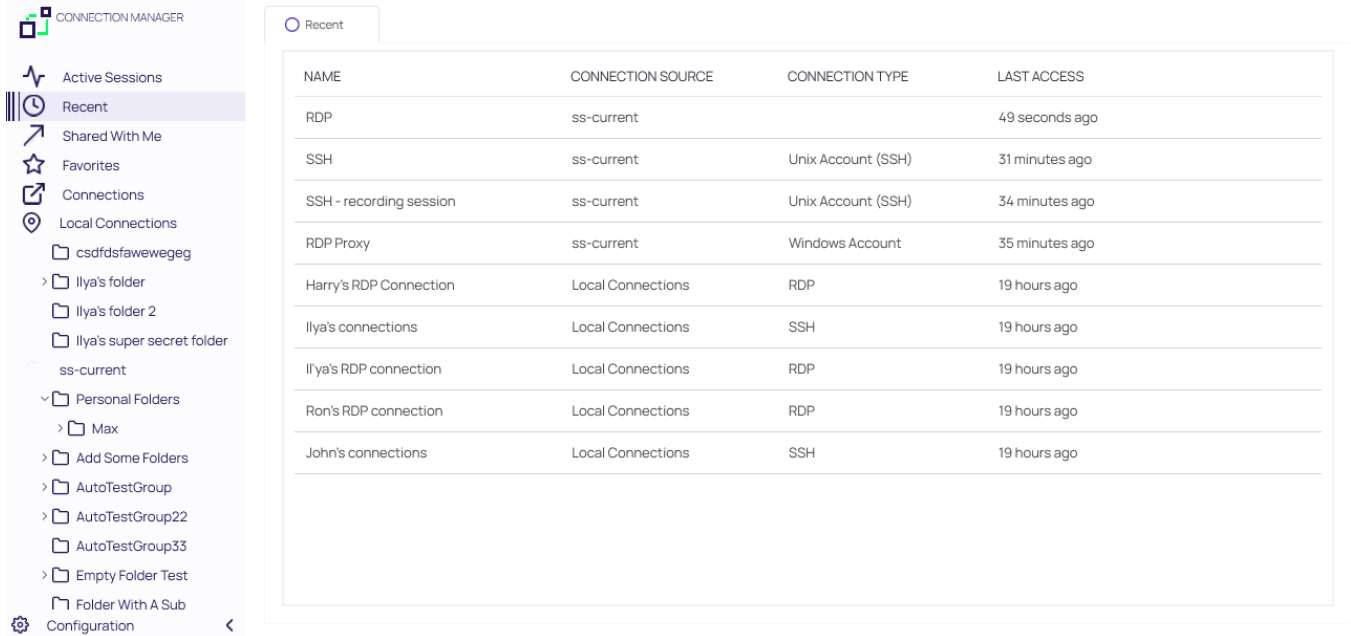
NAME	CONNECTION TYPE	FOLDER PATH	CONNECTION SOURCE
AD IBM 10.7	Active Directory Acc...		ss-current
ibm 7.2	Windows Account		ss-current
permissions - edit	Windows Account	ss-current/Personal Folders/Ma	ss-current
permissions - list	Windows Account	ss-current/Personal Folders/Ma	ss-current
permissions - view	Windows Account	ss-current/Personal Folders/Ma	ss-current
Request Access secret	Unix Account (SSH)	ss-current/Personal Folders/Ma	ss-current
Require Approval for MAX	Unix Account (SSH)		ss-current
Require aproval	Active Directory Acc...		ss-current
restricted SSH	Unix Account (SSH)	ss-current/Personal Folders/Ma	ss-current
Root folder secret	Active Directory Acc...	ss-current	ss-current

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.

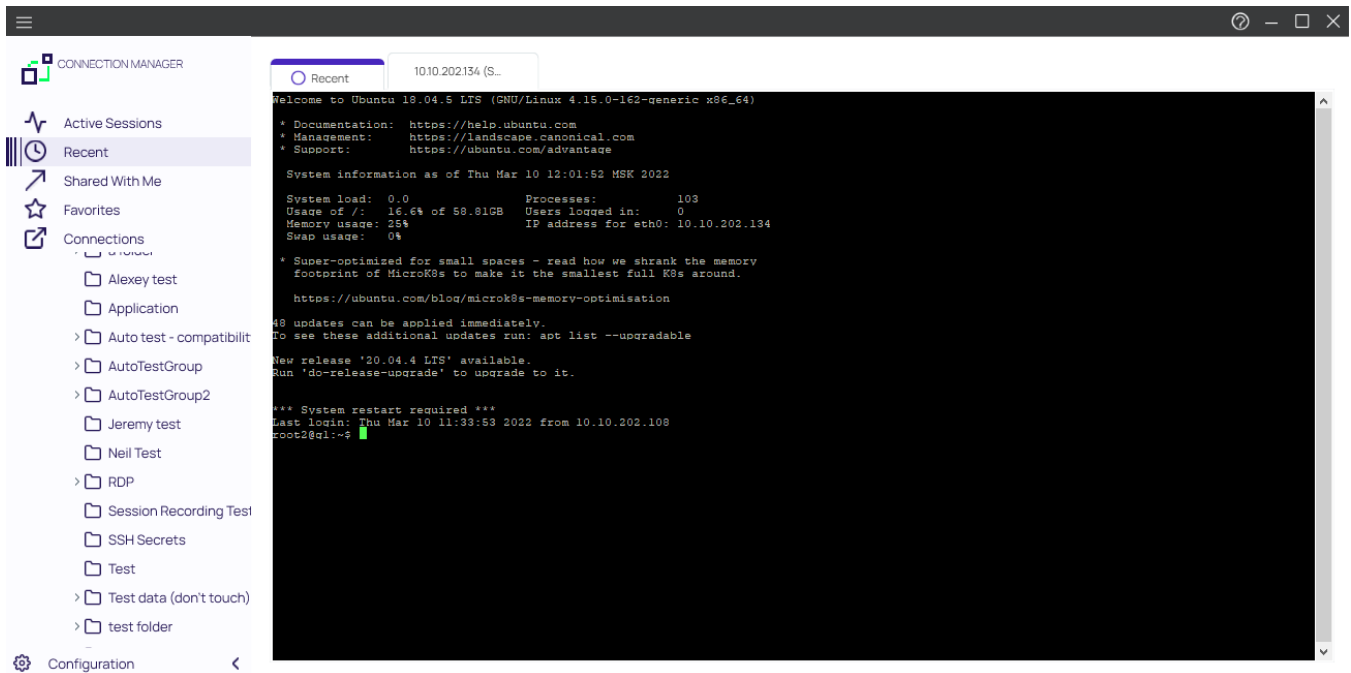
Getting Started



The screenshot shows the Connection Manager interface. On the left is a sidebar with a folder tree. The main area displays a table of connections under the 'Recent' tab.

NAME	CONNECTION SOURCE	CONNECTION TYPE	LAST ACCESS
RDP	ss-current		49 seconds ago
SSH	ss-current	Unix Account (SSH)	31 minutes ago
SSH - recording session	ss-current	Unix Account (SSH)	34 minutes ago
RDP Proxy	ss-current	Windows Account	35 minutes ago
Harry's RDP Connection	Local Connections	RDP	19 hours ago
Ilya's connections	Local Connections	SSH	19 hours ago
Ilya's RDP connection	Local Connections	RDP	19 hours ago
Ron's RDP connection	Local Connections	RDP	19 hours ago
John's connections	Local Connections	SSH	19 hours ago

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



The screenshot shows the Connection Manager interface with a terminal window open for a connection to 10.10.202.134. The terminal displays system information and update notifications for Ubuntu 18.04.5 LTS.

```
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-162-generic x86_64)
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Thu Mar 10 12:01:52 MSK 2022
System load:  0.0          Processes:    103
Usage of /:   16.6% of 58.81GB  Users logged in:  0
Memory usage: 25%          IP address for eth0: 10.10.202.134
Swap usage:   0%

* Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.
  https://ubuntu.com/blog/microk8s-memory-optimisation

48 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

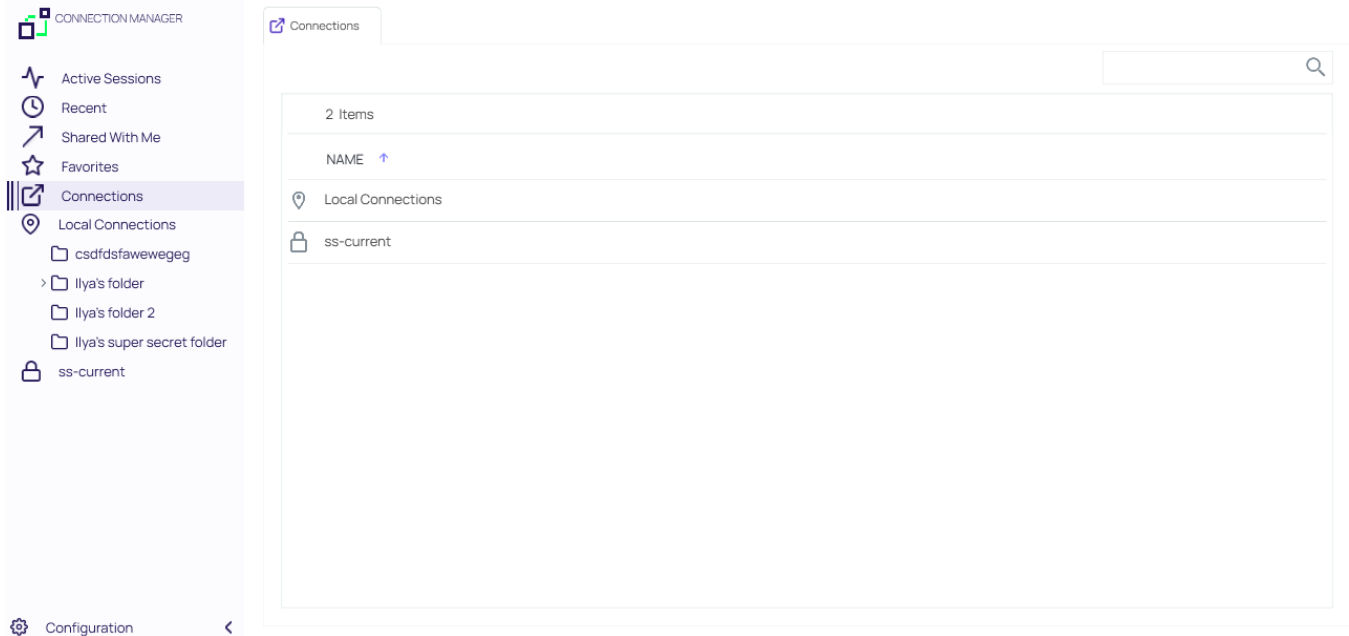
New release '20.04.4 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Thu Mar 10 11:33:53 2022 from 10.10.202.108
root@q1:~#
```

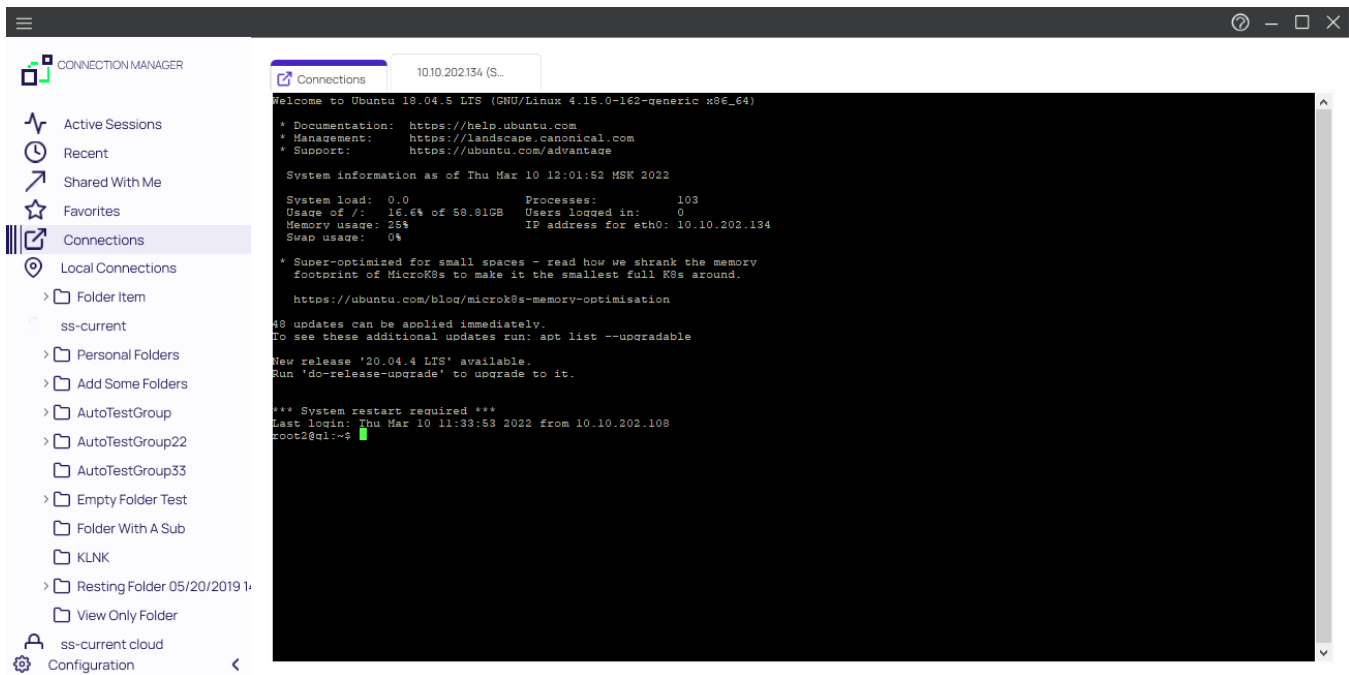
Connections

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

Getting Started



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.

Getting Started

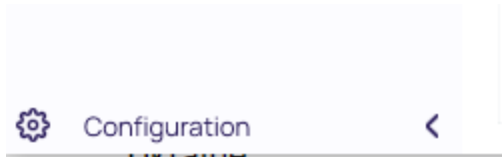
Shared with me

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

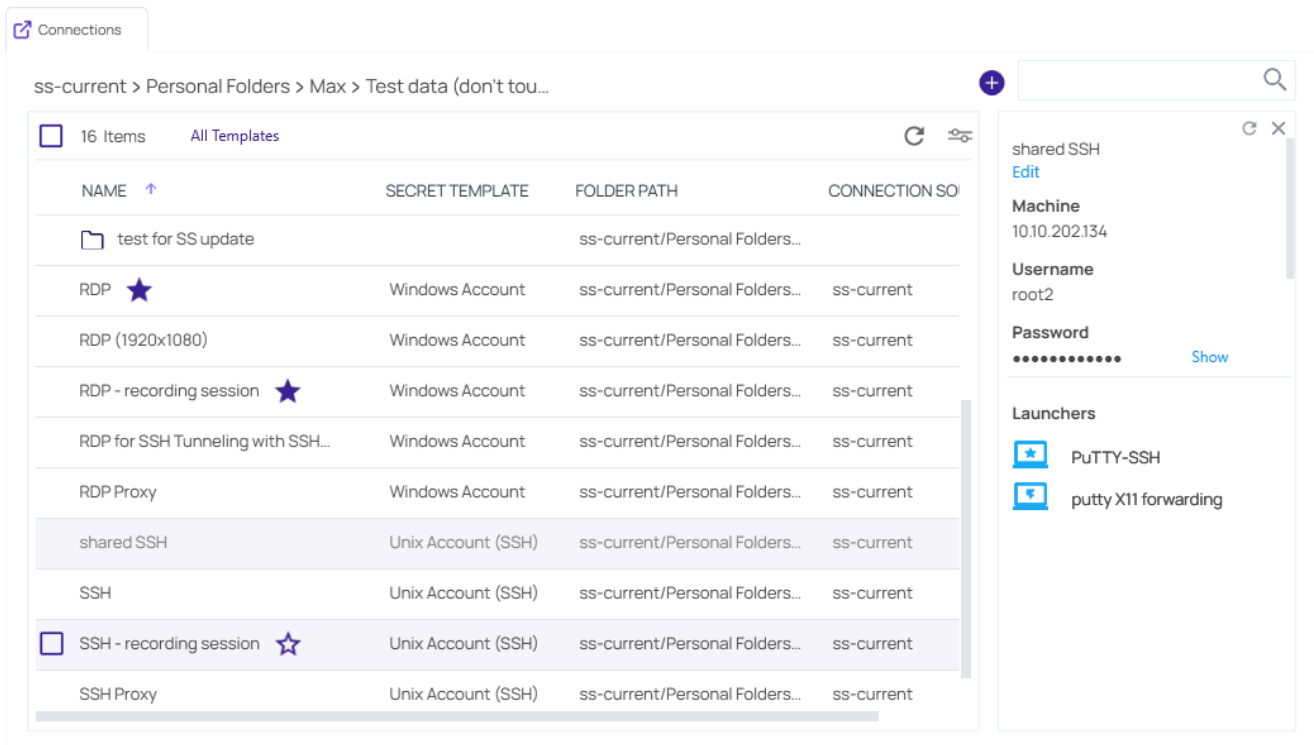
- Secret Server Connections and
- Global Configurations.



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.



The screenshot shows the "Connections" window in the application. The breadcrumb path is "ss-current > Personal Folders > Max > Test data (don't tou...". The main area displays a table with 16 items. The selected item is "SSH - recording session". The properties panel on the right shows details for "shared SSH", including the machine IP (10.10.202.134), username (root2), and password (masked with dots and a "Show" link). The "Launchers" section lists "PuTTY-SSH" and "putty X11 forwarding".

NAME	SECRET TEMPLATE	FOLDER PATH	CONNECTION SO
test for SS update		ss-current/Personal Folders...	
RDP	Windows Account	ss-current/Personal Folders...	ss-current
RDP (1920x1080)	Windows Account	ss-current/Personal Folders...	ss-current
RDP - recording session	Windows Account	ss-current/Personal Folders...	ss-current
RDP for SSH Tunneling with SSH...	Windows Account	ss-current/Personal Folders...	ss-current
RDP Proxy	Windows Account	ss-current/Personal Folders...	ss-current
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

Authenticating to a Vault



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 42
- "Authenticating to Secret Server via Local Username" on page 52
- "Re-authenticating to a Vault" on page 62
- "Modifying a Vault" on page 63
- "Removing a Vault" on page 66

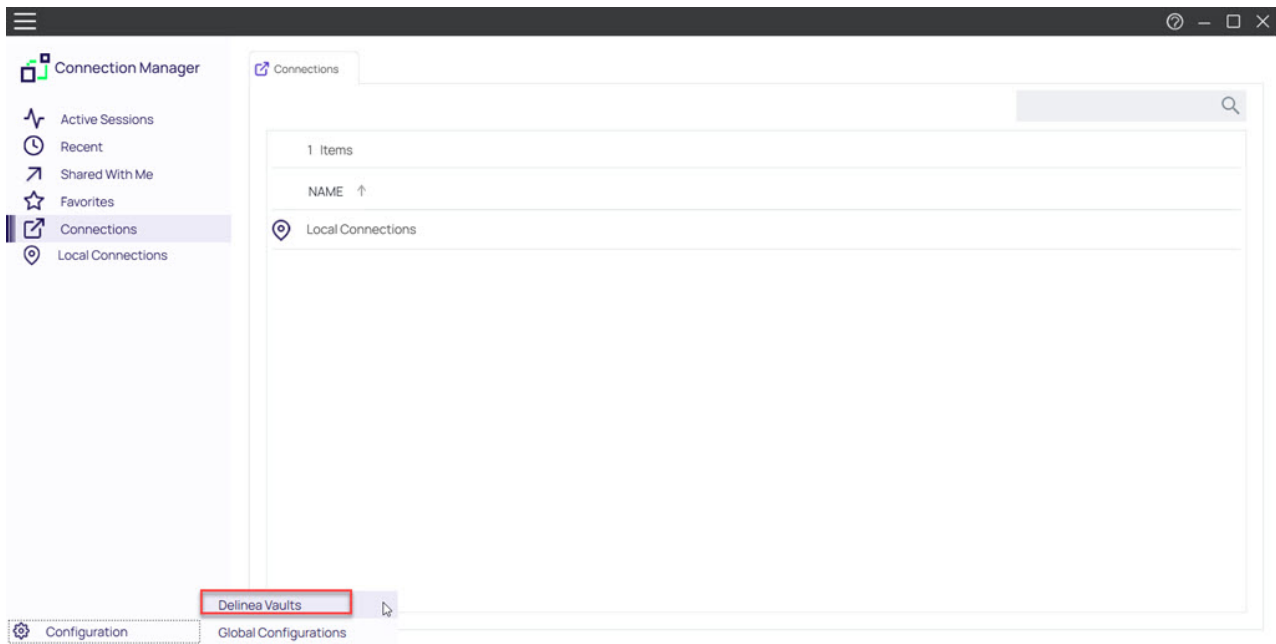
Authenticating to a Delinea Platform Vault

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 a Vault

Authenticating to the Delinea Platform via External Browser

1. In the *Configuration* menu, select **Delinea Vaults**



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

Authenticating to a Vault

Add Vault

Enter vault connection details

Connection Name*

Connection URL*

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

Authenticating to a Vault


Add Vault

Choose login method and complete login.

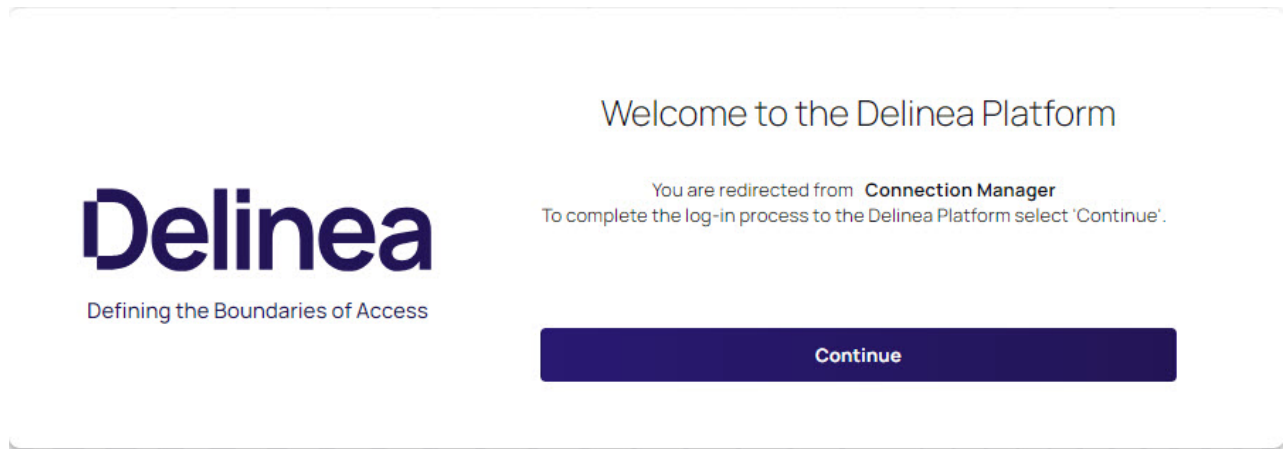
Connection Name*

Connection URL*


Authentication Type:

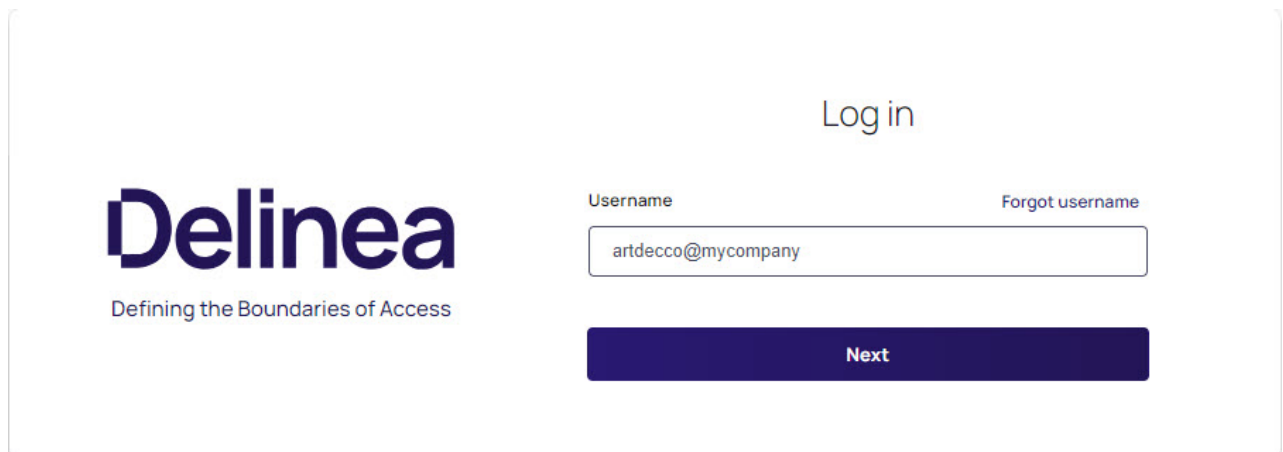
 Clicking 'Next' will open the Platform in browser.
Log in to your account to complete the authentication process

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




5. Enter your *Username* and click **Next**.

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



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.

Authenticating to a Vault

Delinea
Defining the Boundaries of Access

Log in

artdecco@mycompany

Authentication method Forgot password

Password

Enter your password


Keep me logged in

Next

Start over

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

Delinea
Defining the Boundaries of Access

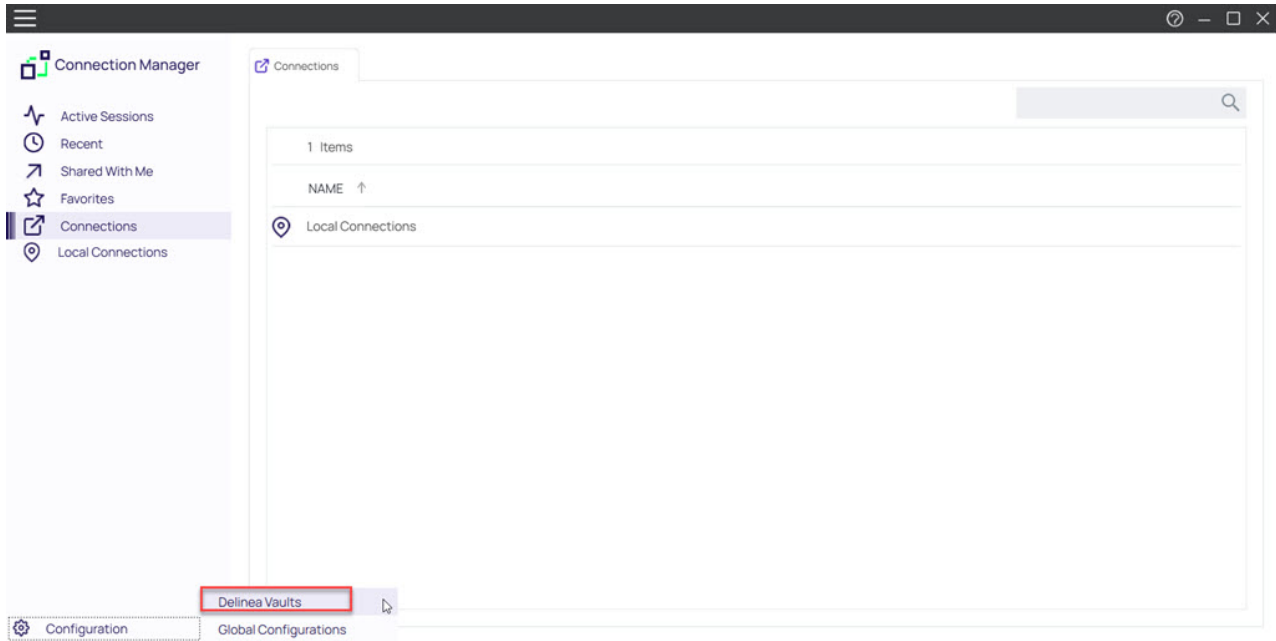
 **Authentication successful**

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

Authenticating to a Vault

Authenticating to the Delinea Platform via Internal Browser

1. In the *Configuration* menu, select **Delinea Vaults**



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

Authenticating to a Vault

Add Vault

Enter vault connection details

Connection Name*

Connection URL*

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

Authenticating to a Vault


Add Vault

Choose login method and complete login.


Connection Name*

Connection URL*

Authentication Type:

 You have selected the internal browser to login to the Platform.
This option will be deprecated in a future release.
It is recommended that you switch to the external browser option.

4. Enter your *Username* and click **Next**

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

Authenticating to a Vault

Add Vault
Please, enter your credentials

Delinea

Defining the Boundaries of Access

Log in


Username [Forgot username](#)

Next

Delinea
©2024 Delinea [Terms & Conditions](#) [Privacy Policy](#)

[Back](#) [Cancel](#) **Reload**

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.

Authenticating to a Vault

Add Vault

Please, enter your credentials

Delinea
Defining the Boundaries of Access

Log in
artdecco@mycompany

Authentication method Forgot password

Password

Password
Enter your password

Keep me logged in

Next

Back Cancel Reload

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**.

Authenticating to a Vault

Add Vault
Select secret server templates to use in this application

Everything (detect newly added templates)

Custom Selection (new templates must be manually added)

Authenticating to a Vault

Add Vault

Select secret server templates to use in this application

Everything (detect newly added templates)

Custom Selection (new templates must be manually added)

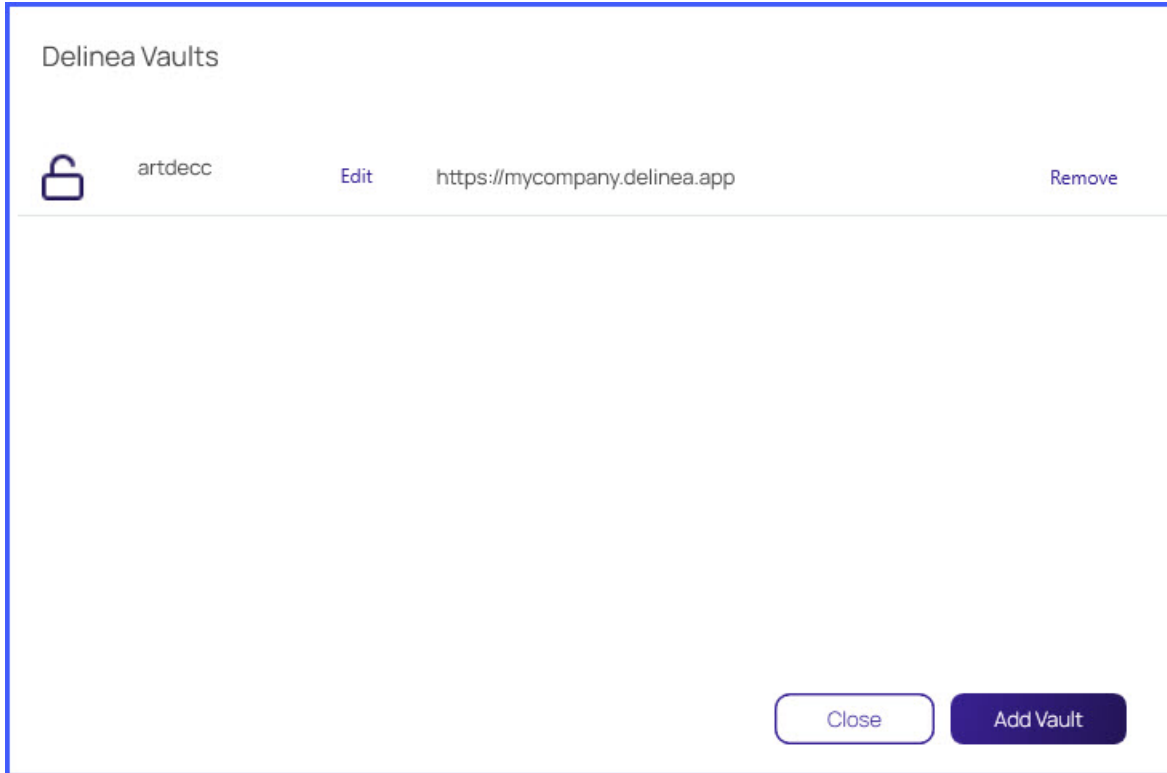
Search for Template Name

6 Selected

- Active Directory Account
- Amazon IAM Console Password
- Amazon IAM Key
- Azure AD Account
- Bank Account
- 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.

Authenticating to a 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 47
- "Authenticating to Secret Server via Local Username" on page 52


Secret Server Requirements

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

- Must have Secret Server 10.7:
 - Requires REST APIs
- 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:


Authenticating to a Vault

- 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

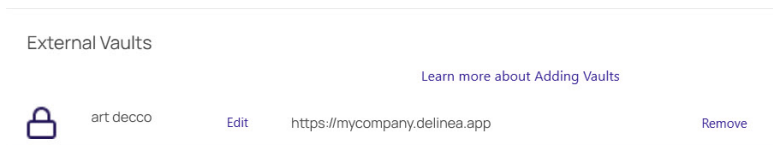
 **Note:** If you are using a TLS certificate to authenticate to Secret Server, only TLS certificates versions 1.2 and newer are supported.

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 [Setting Up Integrated Windows Authentication in Secret Server](#). Use the RestAPI as the authentication method instead of Windows authentication.

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**.

Authenticating to a Vault

Add External Connection

Enter vault connection details

Connection Name*

Connection URL*

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

Authenticating to a Vault

Add External Connection


Choose login method and complete login.

Connection Name*

Connection URL*

Authentication Type:

- Local Login
- Internal Browser
- External Browser**

 Clicking 'Next' will open Secret Server in browser.
Click Connection Manager Launcher to complete login process.
Click the Launcher to complete login process.

Back

Cancel

Next

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

Authenticating to a Vault

Add External Connection

Please, enter your credentials



Must be on Secret Server Version 11.2

If you are on a lower version, please change login option in the previous step.

Go to browser to complete login
Not seeing the browser tab? Click "Reload" below.



Back

Cancel

Reload

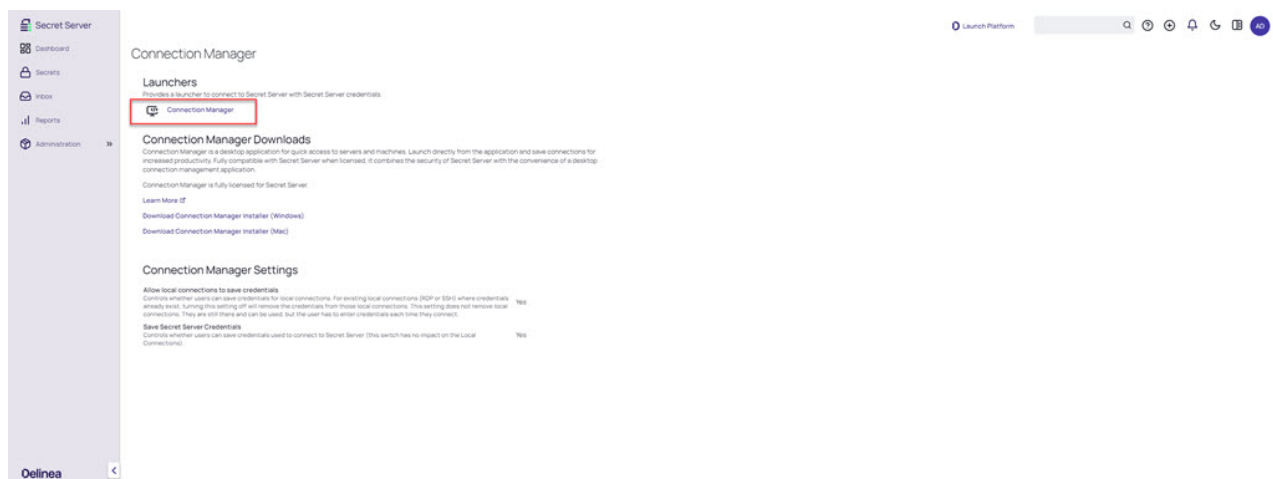
6. Login with your Delinea Platform or Local Login credentials.

Authenticating to a Vault



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

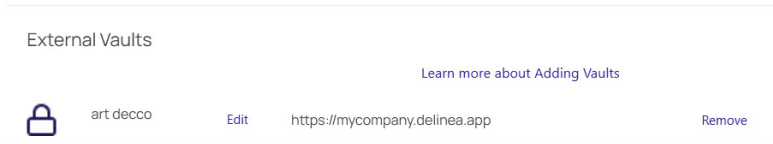
7. Under *Launchers*, click **connection-manager**.



Authenticating to Secret Server via Internal Browser

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

Authenticating to a Vault



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

Authenticating to a Vault

Add External Connection

Enter vault connection details

Connection Name*

Connection URL*

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

Authenticating to a Vault

Add External Connection

Choose login method and complete login.

Connection Name*

art decco's secret server vault

Connection URL*

https://mycompany.secretservercloud.com

Authentication Type:

Internal Browser

Local Login

Internal Browser

External Browser

Back


Cancel

Next


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

Add External Connection

Please, enter your credentials




Delinea
Defining the Boundaries of Access


 Secret Server

Log in to continue

 Platform

 Local Login

Having trouble logging into your account?

 Log out from Platform

Back

Cancel

Reload

Authenticating to a Vault

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**

Authenticating to a Vault

Add External Connection

Enter vault connection details

Connection Name*

Connection URL*

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

Authenticating to a Vault

Add External Connection

Choose login method and complete login.

Connection Name*	<input type="text" value="art decco's secret server"/>
Connection URL*	<input type="text" value="https://mycompany.secretservercloud.com"/>
Authentication Type:	<div style="border: 1px solid #ccc; padding: 5px;"><div style="border-bottom: 1px solid #ccc; padding: 2px 5px;">Local Login ▾</div><div style="border: 2px solid red; padding: 2px 5px; background-color: #f0f0f0;">Local Login</div><div style="padding: 2px 5px;">Internal Browser</div><div style="padding: 2px 5px;">External Browser</div></div>

[Back](#)

[Cancel](#)

[Next](#)

5. Complete all of the required fields

Add External Connection

Please, enter your credentials

Username*

Password*

Domain

Two Factor:

Select two factor authentication that applies:

- None
- Pin Code
- Duo Push
- Duo Phone Call

Remember me:

- Store credentials locally
- Launch automatically at application start


Back


Cancel

Connect

Authenticating to a Vault

- **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)

Back

Cancel

Finish



Authenticating to a Vault

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)

-6 Selected

- 17Jan
- 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

Back

Cancel

Finish

8. Click **Finish**

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

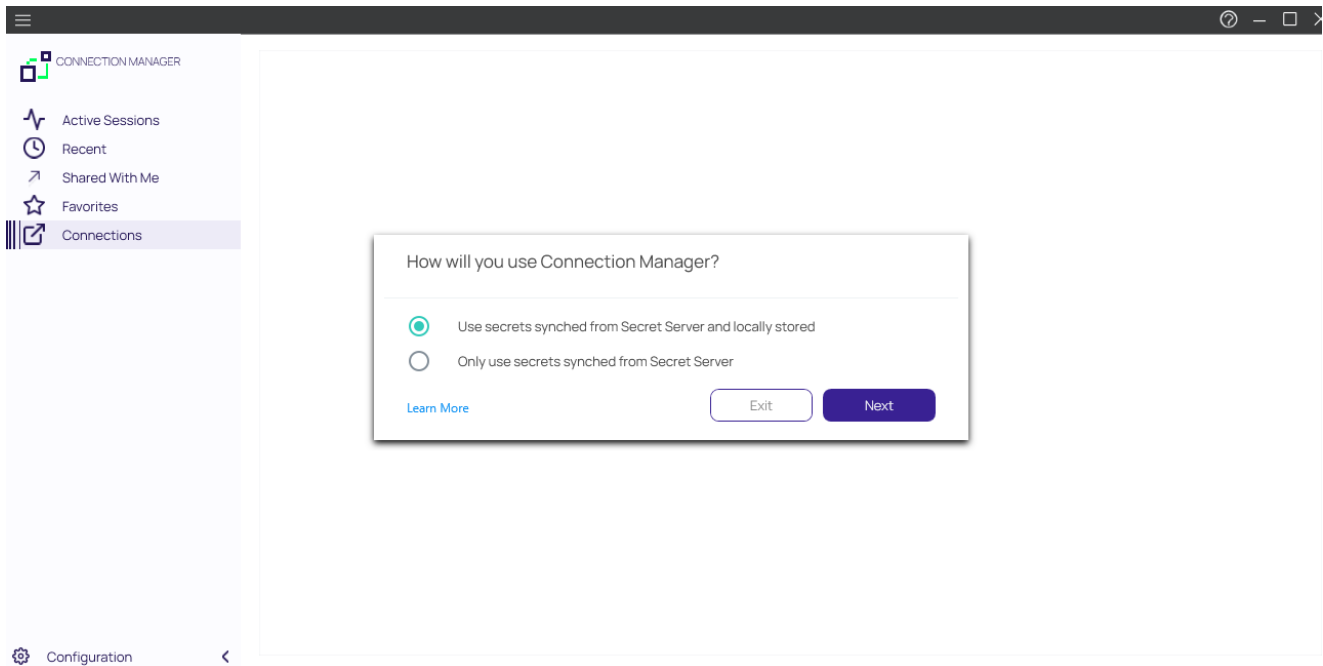
With the local vault enabled, the user can create local RDP and SSH connections, and save the connections and credentials locally. The user must protect this local data by logging into Connection Manager with their password each time they open the application. As soon as the user logs into Connection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



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.

Authenticating to a 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 two factor authentication that applies:

None

Pin Code

Duo Push

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**.

Authenticating to a Vault

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


How to Change the 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*

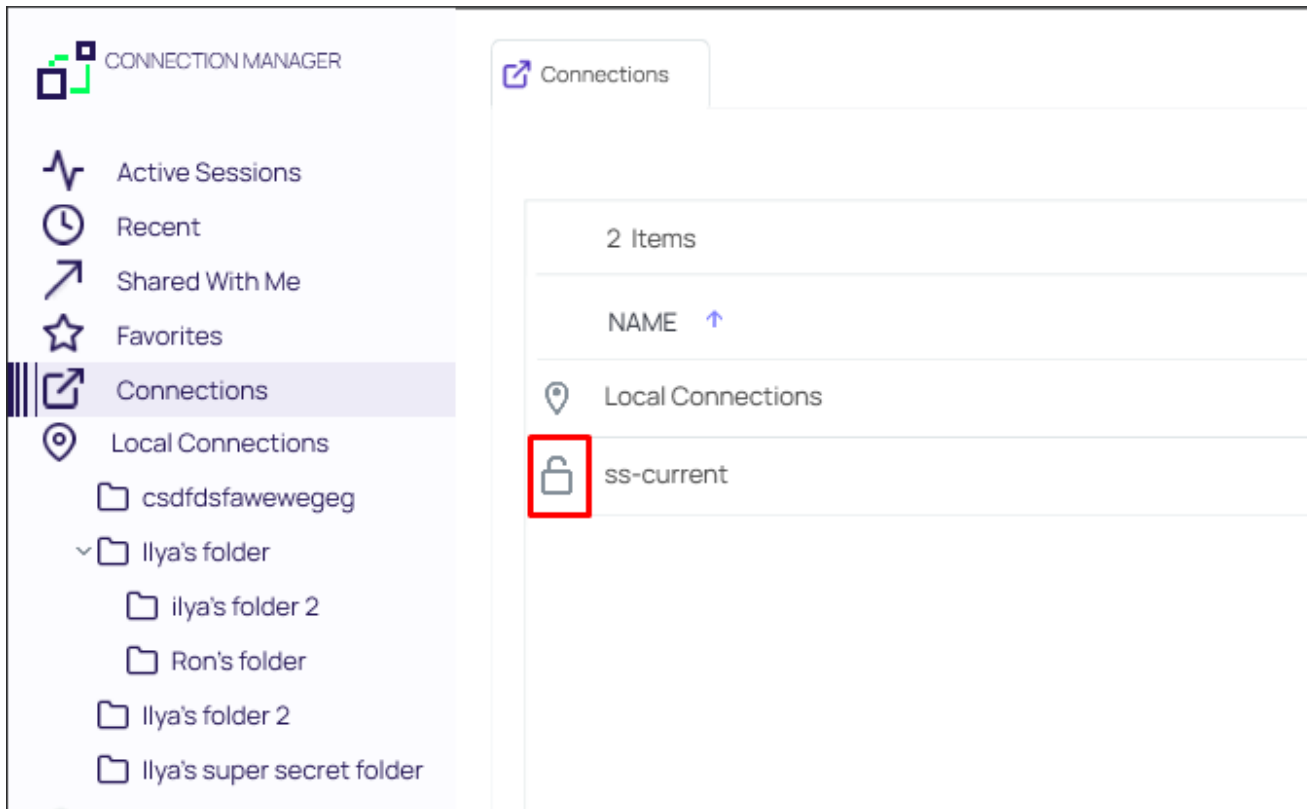
If you decide to change the location of the local vault, you will also need to copy the *ConnectionManager.dat* file to your new local storage location in order to keep your original vault configuration.

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:

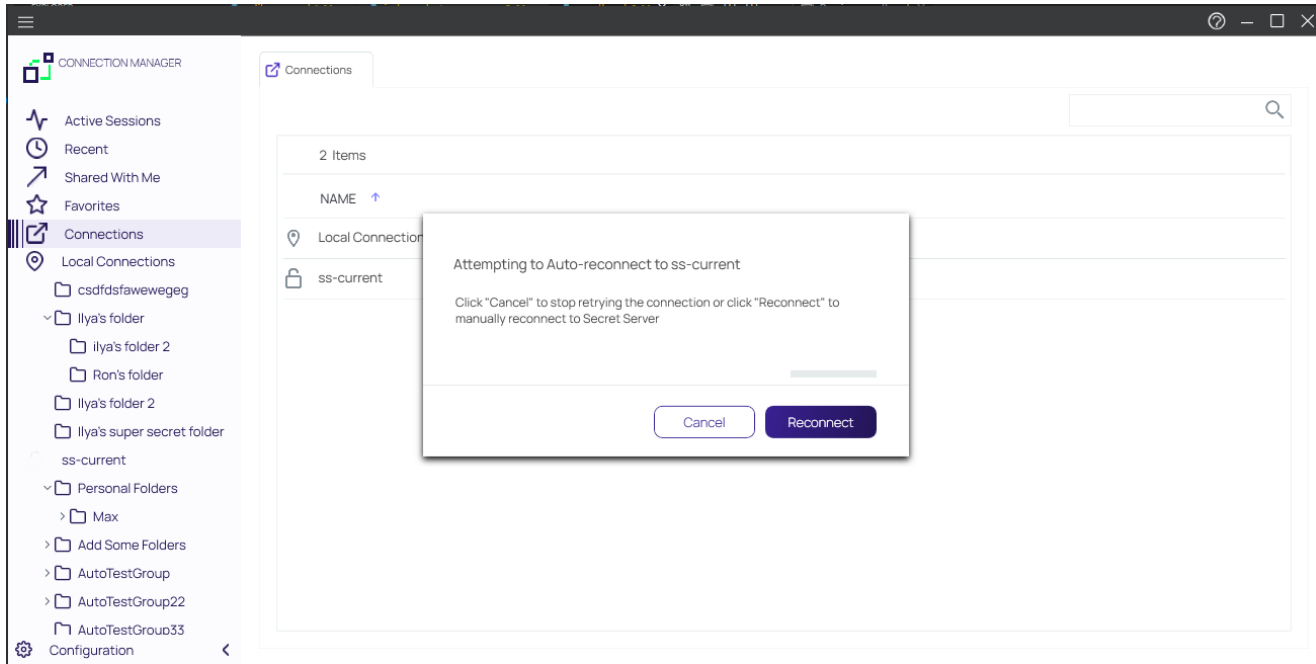
- Double-click the **closed-lock icon** in the navigation menu, or
- On the Connections page, in the list right-click the connection you wish to open and select **Connect**.



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

Authenticating to a Vault

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 manually 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.



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*

Secret Server URL*

Authentication Type:



Local Username/Password



Web Login

Cancel

Next

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.

Authenticating to a Vault

Edit Secret Server Connection

Step 2 of 3: Please, enter your credentials

Username*

max

Password*

•

Domain

Two Factor:

Select two factor authentication that applies:



None



Pin Code



Duo Push



Duo Phone Call

Remember me:



Store credentials locally

Launch automatically



Back

Cancel

Connect

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.

Authenticating to a Vault

Edit Secret Server Connection

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

- 6 Selected

- 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
- Cisco Account (SSH)
- Cisco Account (Telnet)
- Cisco Enable Secret (SSH)
- Cisco Enable Secret (Telnet)
- Cisco VPN Connection
- Combination Lock

Back

Cancel

Finish

Removing a Vault

To remove a vault:

Session Connections

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.

The screenshot shows the 'Secret Server Connections' window. At the top, there is a title 'Secret Server Connections' and a link 'Add a Connection'. Below this is a table with one entry: 'ss-current' with an 'Edit' link and a URL 'https://connmanagerss.thycotic.net/ss-current' and a 'Remove' link. A modal dialog box is open in the center, containing the text: 'This Secret Server connection will permanently delete. Are you sure that you wish to continue?' followed by 'ss-current'. At the bottom of the dialog are two buttons: 'No' and 'Yes'. To the right of the dialog, there is a 'Close' button.

3. Click **Yes** to confirm.

Session Connections

This section contains information about:

- "Remote Systems " below
- "Integrated Connections" on page 76
- "Importing and Exporting Connections" on page 80

Remote Systems

This section contains information about:

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

- "Editing Local Connections " on page 71
 - "Deleting Connections " on page 75
 - "Duplicating Connections" on page 76
-

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 76 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.

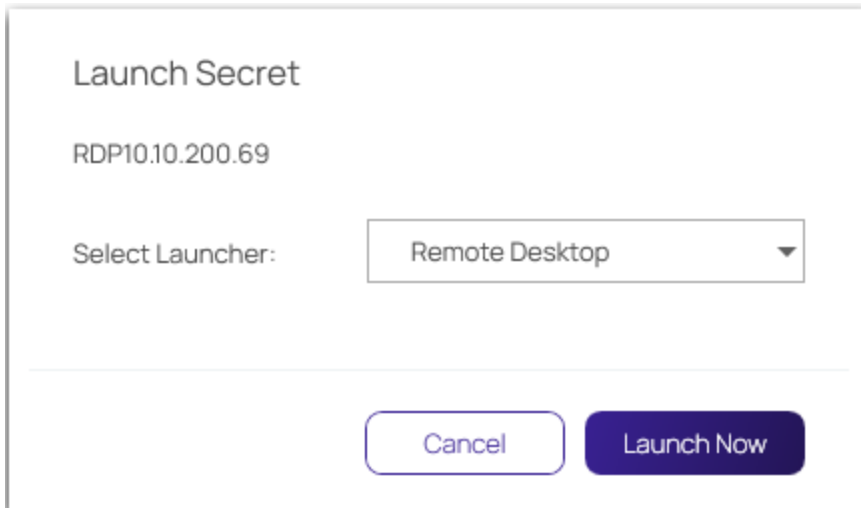
Session Connections

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.



The screenshot shows a dialog box titled "Launch Secret". Inside the dialog, the text "RDP10.10.200.69" is displayed. Below this, there is a label "Select Launcher:" followed by a dropdown menu that currently shows "Remote Desktop". At the bottom of the dialog, there are two buttons: "Cancel" and "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: *

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 enter user name and password

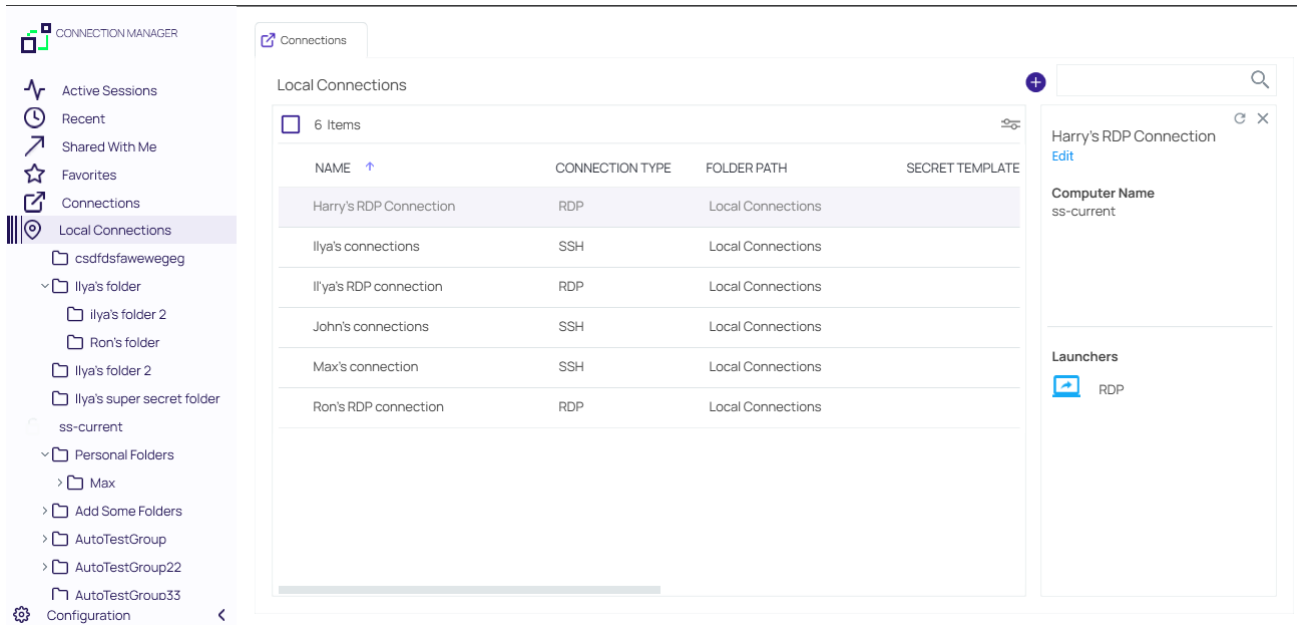
User Name*

Password

Click **Continue**.

Editing Local Connections

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



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

GENERAL CONNECTION INFORMATION

Connection Name*

pscar normandy

Computer Name*

10.10.10.10

Enter a computer name or IP address

Port*

3389

Credentials*

None

Cancel

Save

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

Edit Remote Desktop Connection

General Windows Mode **Local Resources**

Local Devices Select resources to use in remote session:

<input type="checkbox"/>	Printer	<input type="checkbox"/>	Drives	Specify Drives...
<input checked="" type="checkbox"/>	Clipboard	<input type="checkbox"/>	Smart Cards	

Windows Shortcuts Only when using the full screen ▼

Audio Playback This Computer ▼

Audio Recording

For SSH connections, you will see the following window:

Edit Secure Shell (SSH) Connection

General Advanced Private Key File Tunnels

GENERAL CONNECTION INFORMATION

Connection Name*

Computer Name*
Enter a computer name or IP address

Port*

Credentials*

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

Edit Secure Shell (SSH) Connection

General

Advanced

Private Key File

Tunnels

Remote Character Set

Unicode (UTF-8)

Font

Courier New

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.

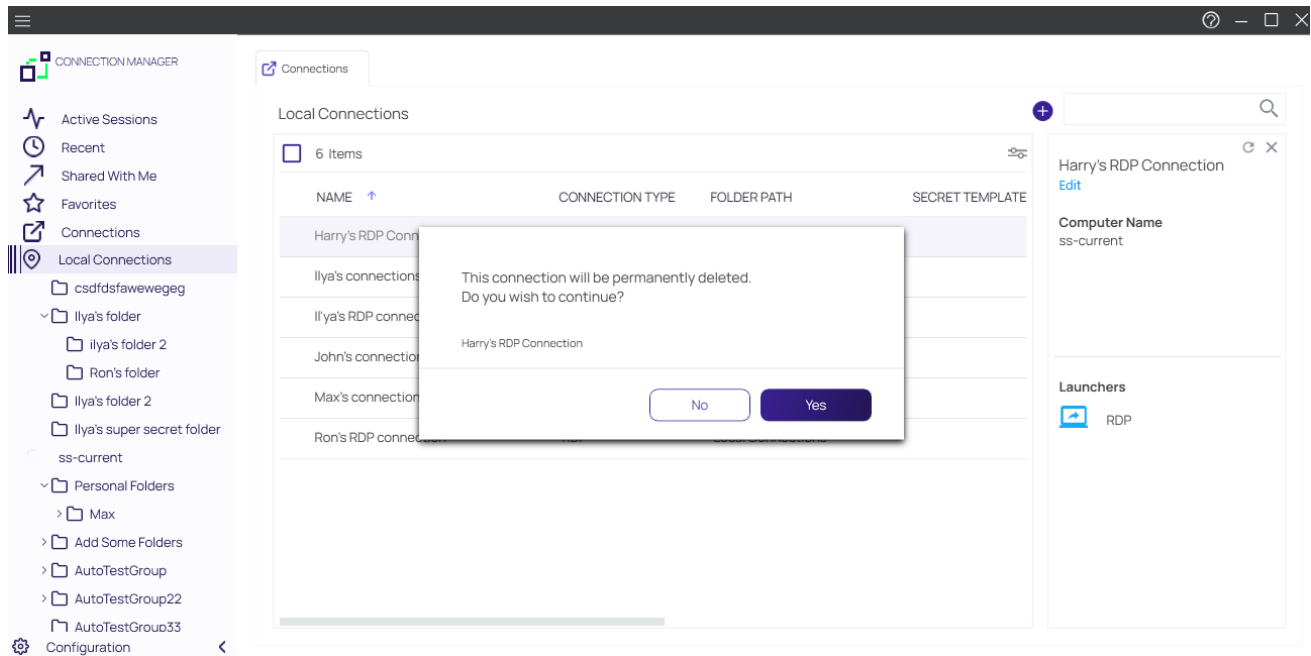
Deleting Connections

A Local connection may be deleted from Connection Manager

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

Session Connections

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



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.

Session Connections

- **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/Il'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.



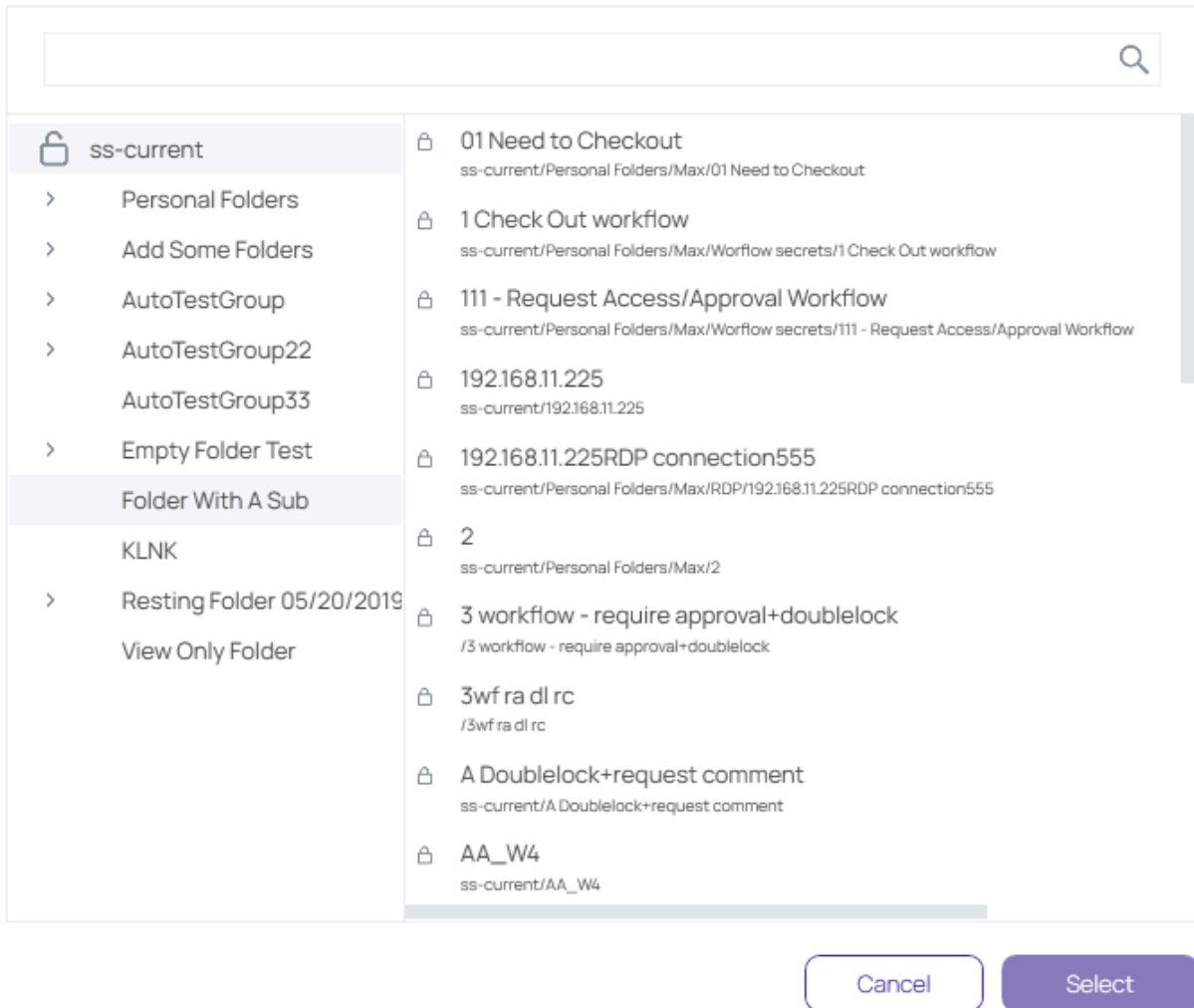
Note: The process is the same whether the connection is RDP or SSH.

1. From within Connection Manager, create a new folder or edit an existing folder. The Create a Remote Desktop Connection dialog box opens.

Session Connections

2. Enter the **connection name**, **computer name**, **port**, and from Credentials, select **Map Secret**. The Select Secret dialog box opens.

Select Secret



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.

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.

Session Connections

CONNECTION CREDENTIALS

User Name

Password

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

Map a Vault Secret to a Connection

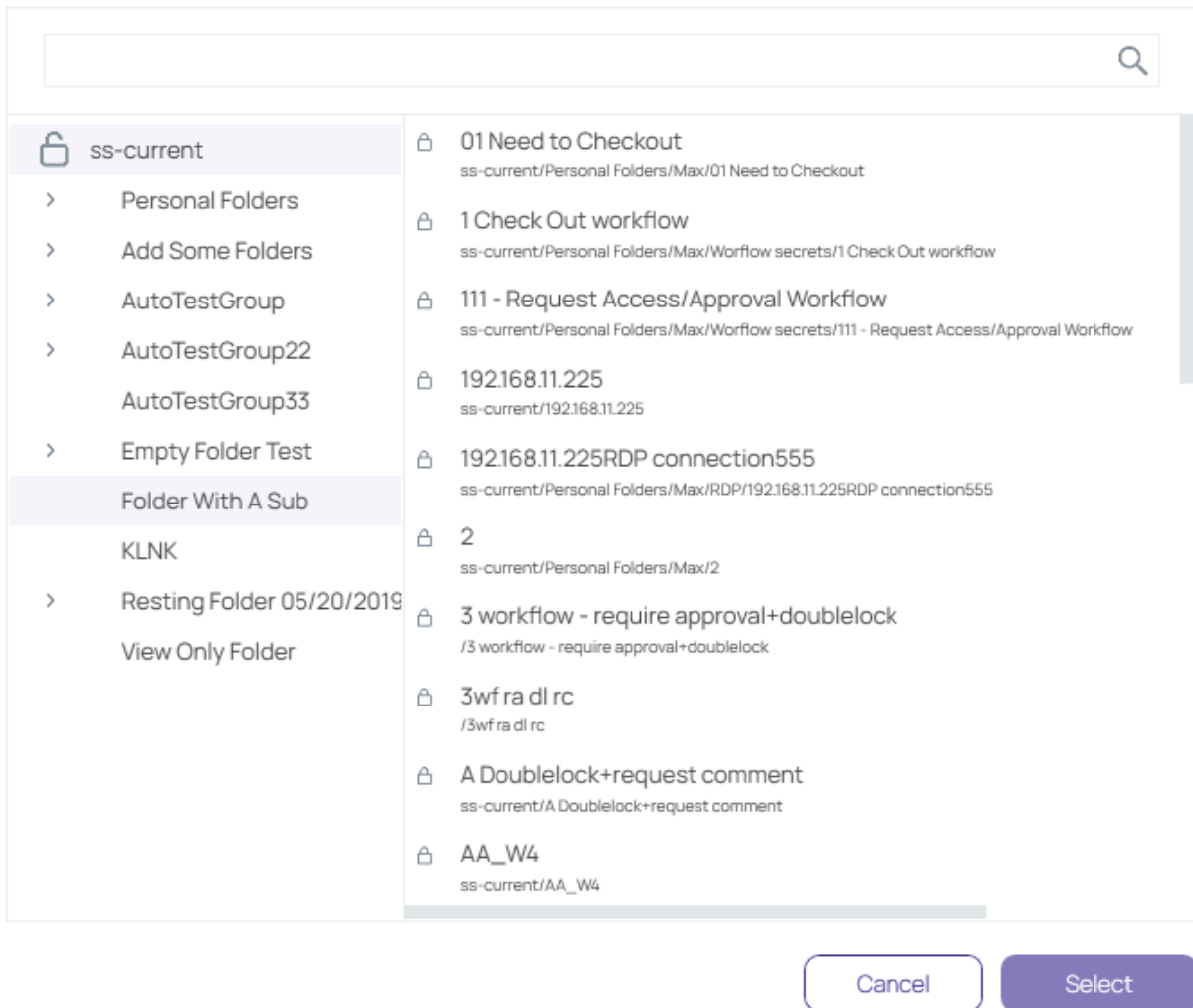
Connection Manager gives a user the ability to map secrets directly to connections.



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

1. From within Connection Manager, go to "Creating Connections" on page 68 or "Editing Local Connections " on page 71. 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



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:

Session Connections

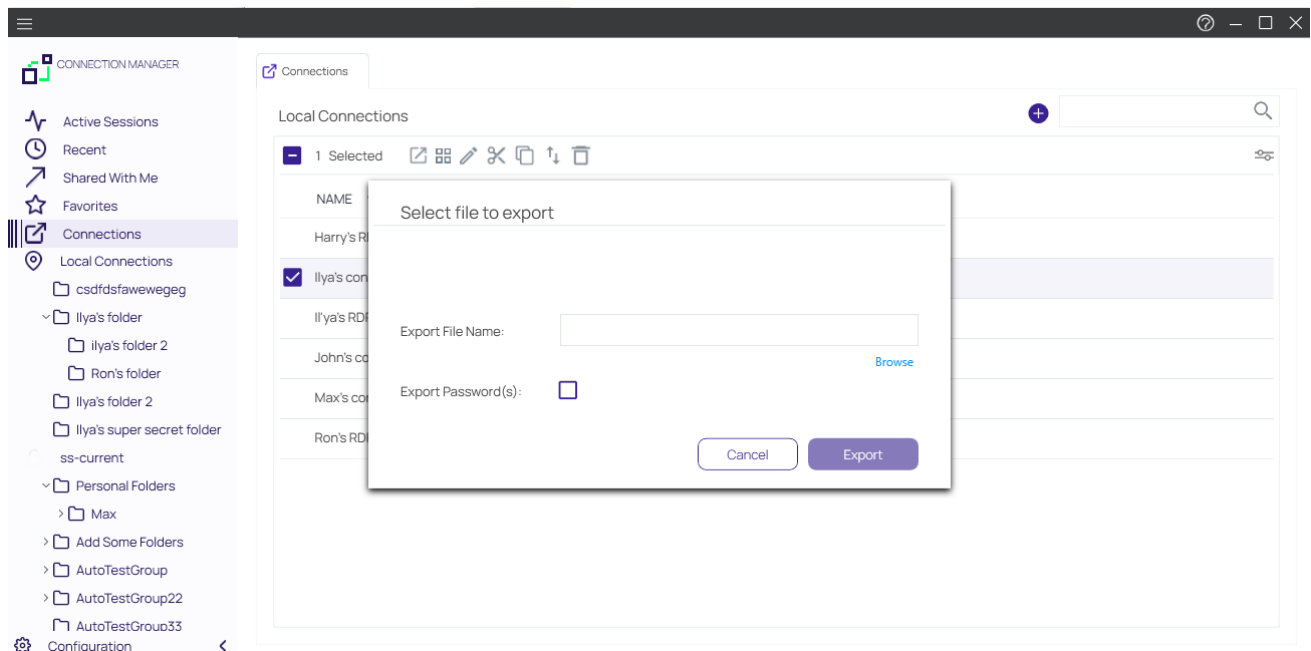
- "Exporting Connections" below
- "Importing JSON Files" below
- "Importing Devolution Files" on page 83
- "Importing RDG Files" on page 85
- "Importing RDP Files" on page 86
- "Importing CSV Files" on page 90

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.



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:

Session Connections


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": [
    {
      "Id": "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"
    },
  ]
}
```

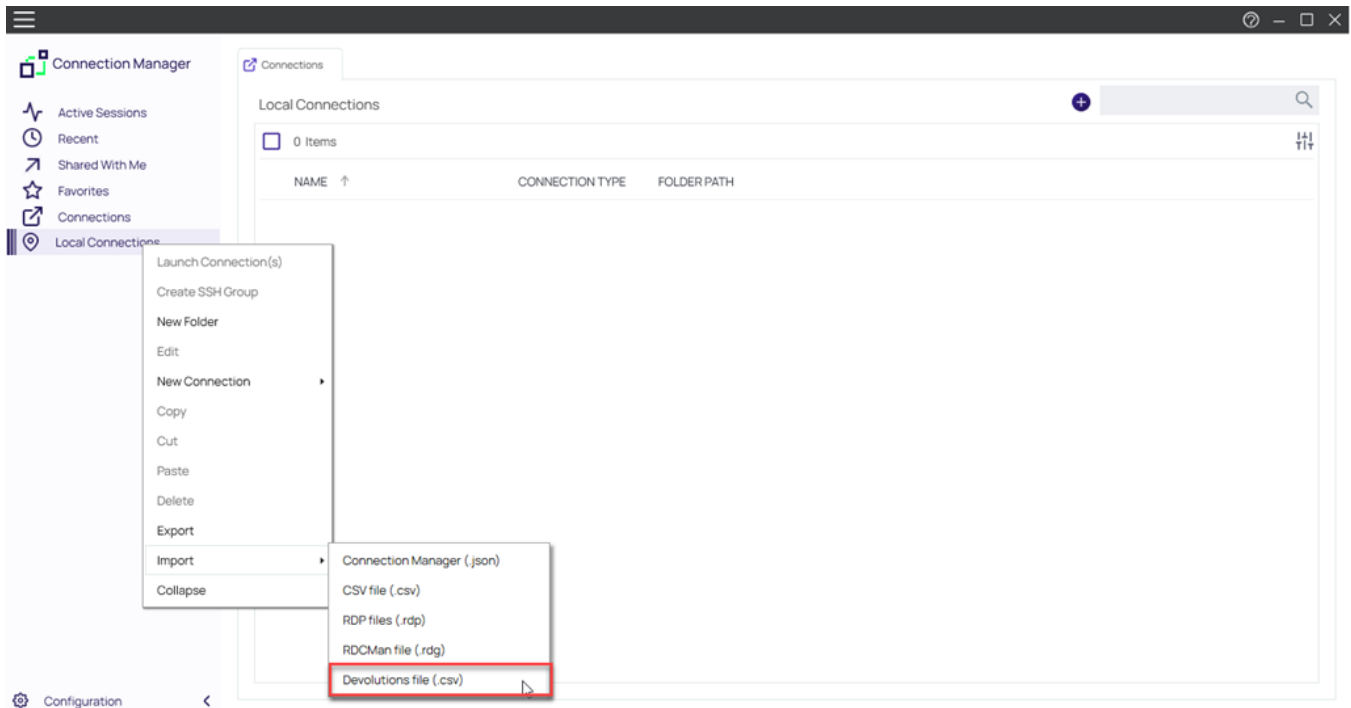
Session Connections

 **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

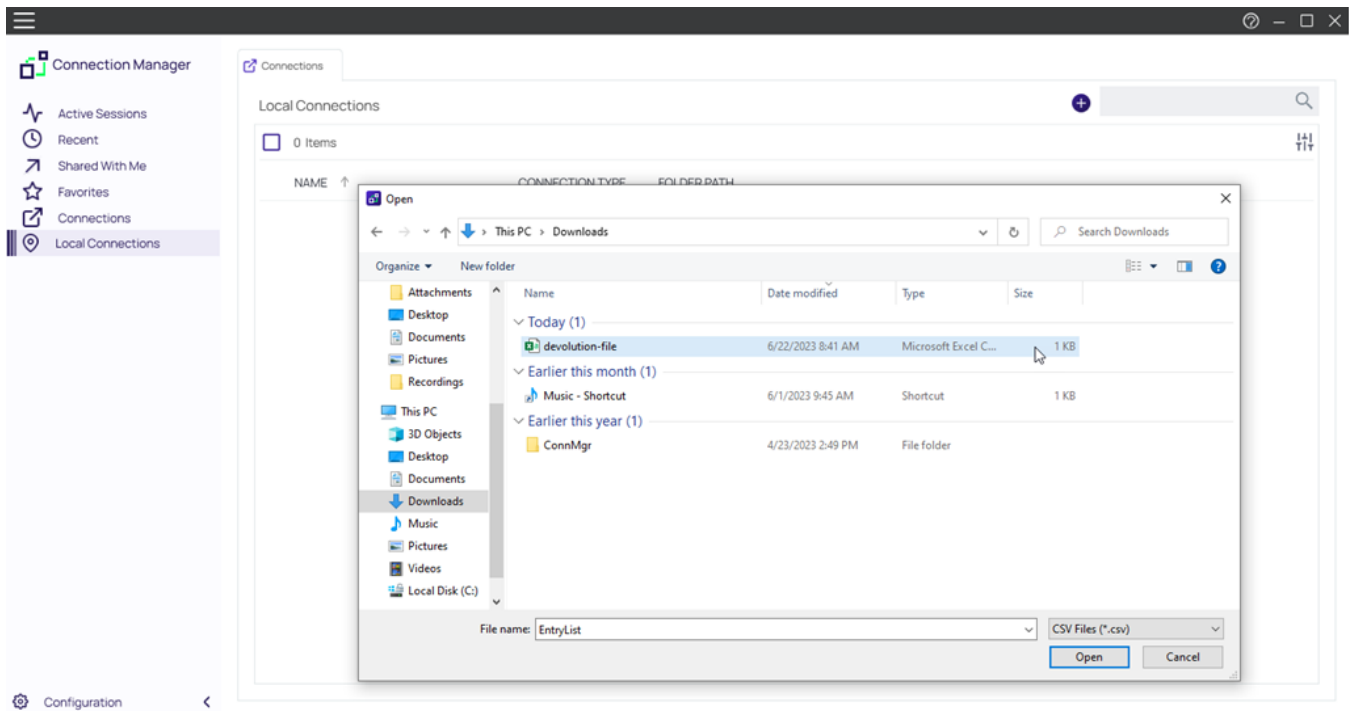
Connection Manager supports the import of Devolution files. To import a Devolution file:

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

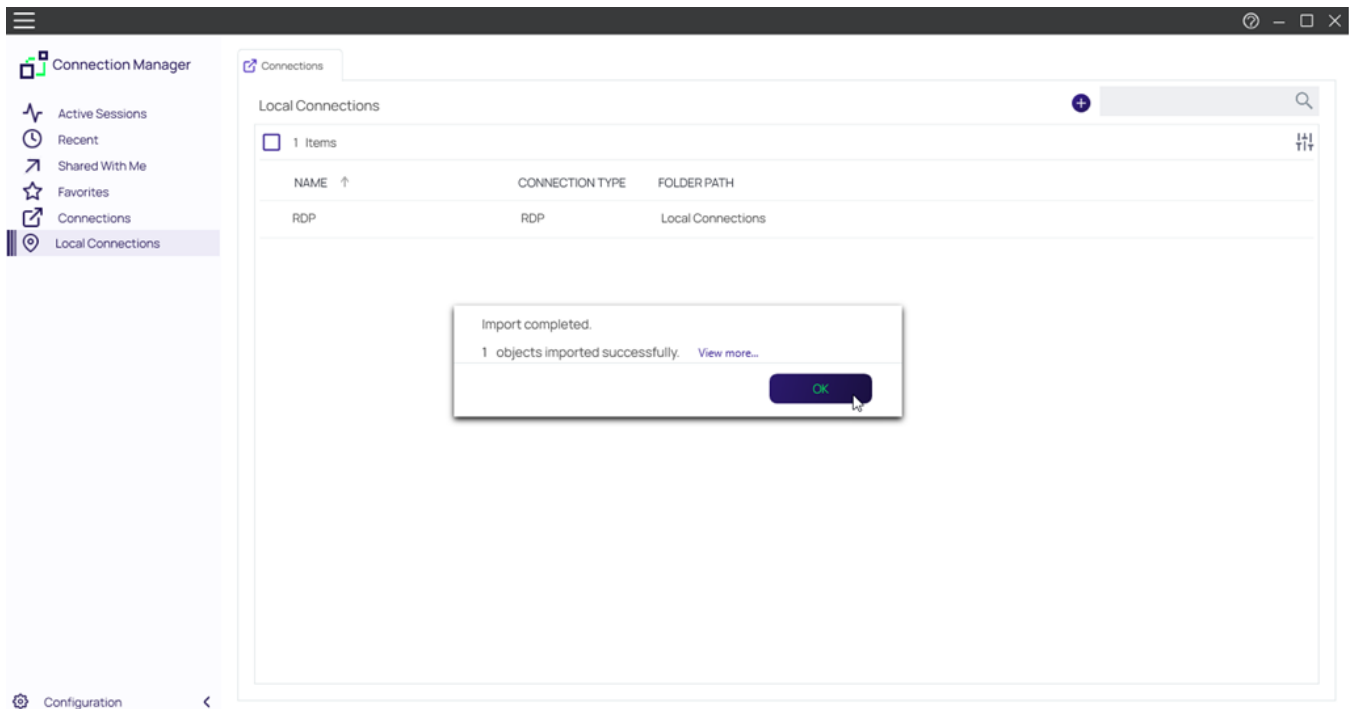


3. A dialog window will appear. Select the files you would like to import.


Session Connections



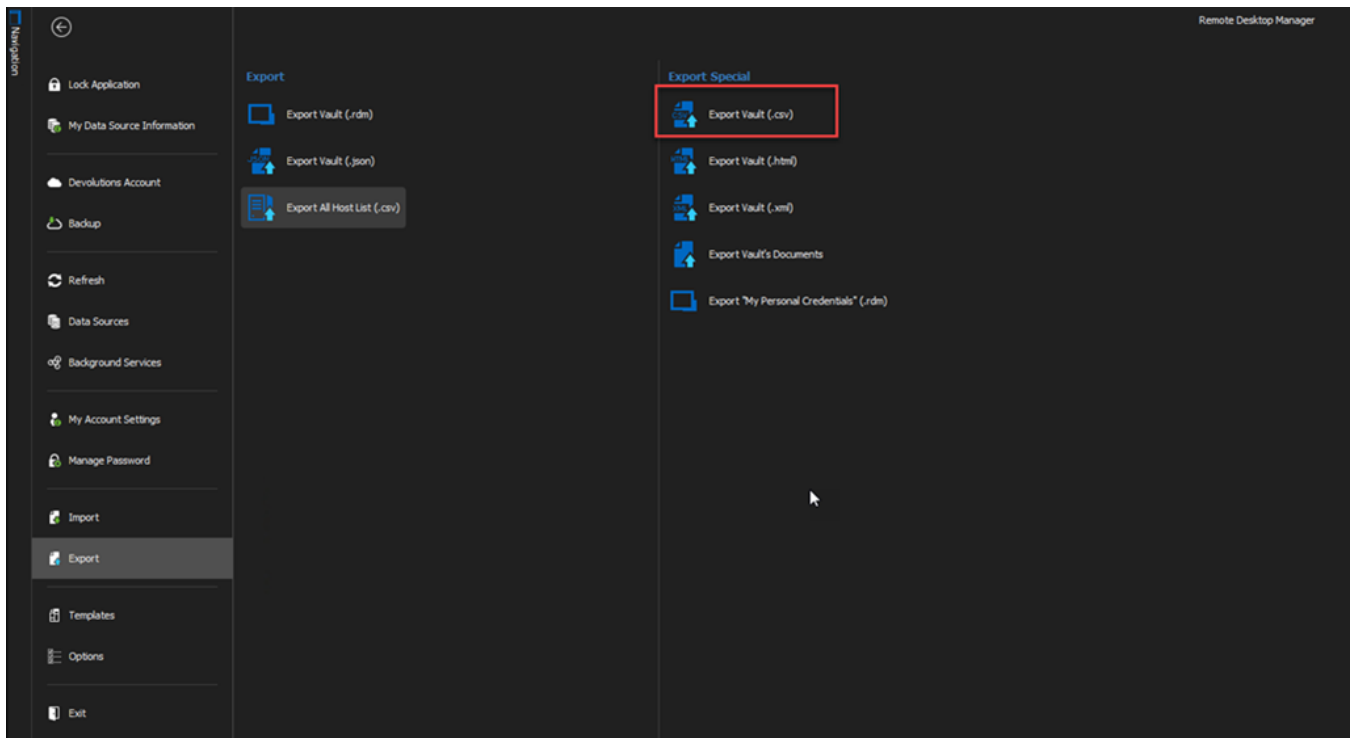
4. After the import is complete, a confirmation window will appear that the import was successful.



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.

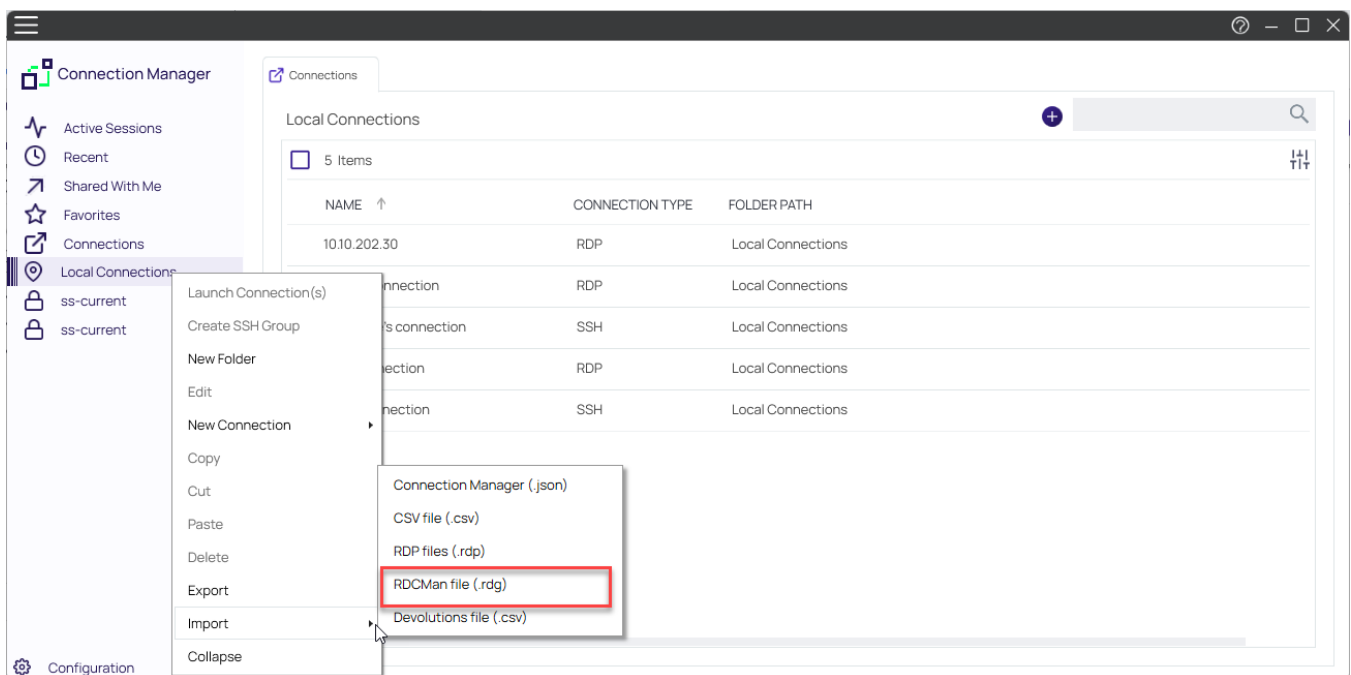
Session Connections



Importing RDG Files

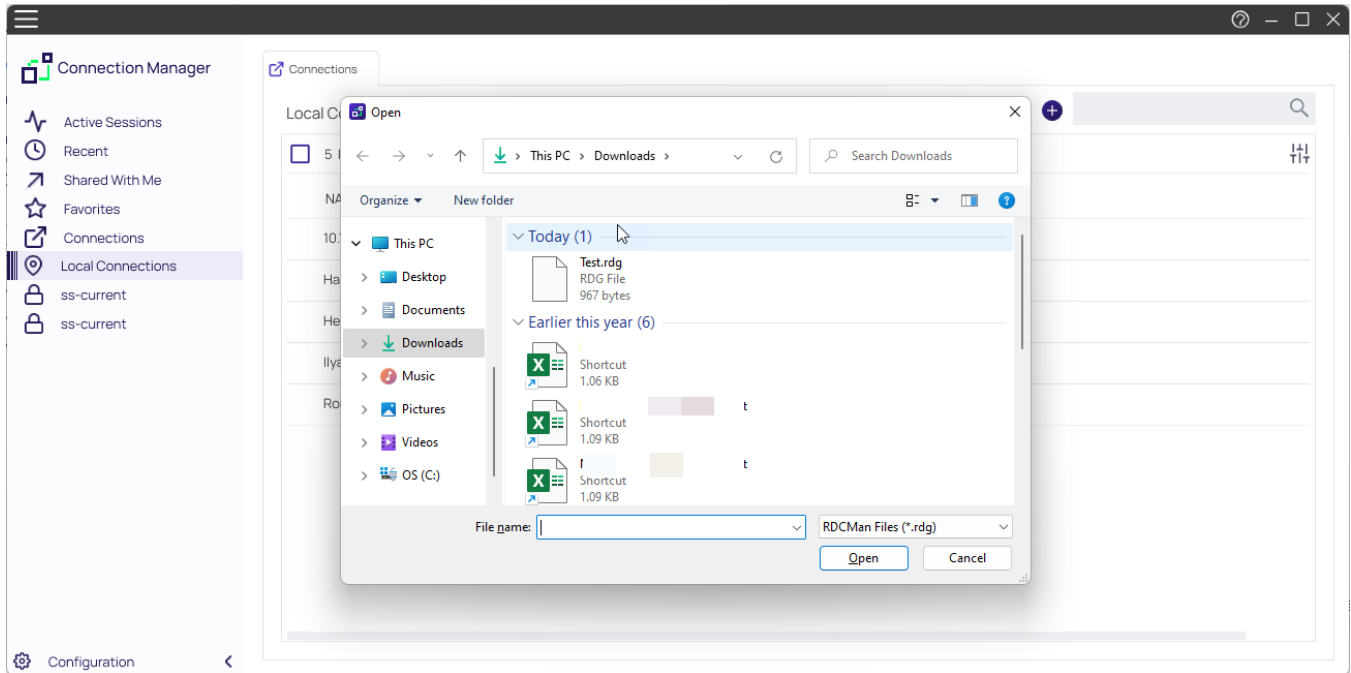
Connection Manager supports the import of RDG files. To import an RDG file:

1. Right click on **Local Connections**
2. Hover over **Import** and select **RDG**

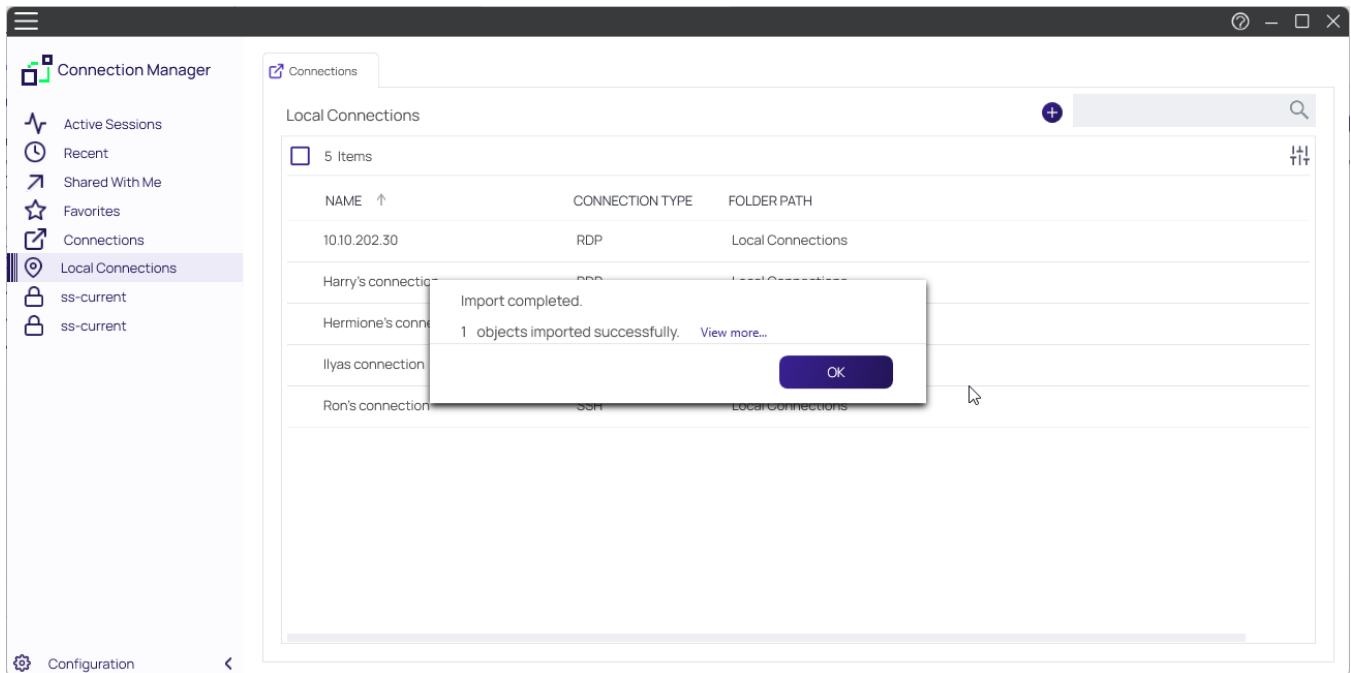


Session Connections

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



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



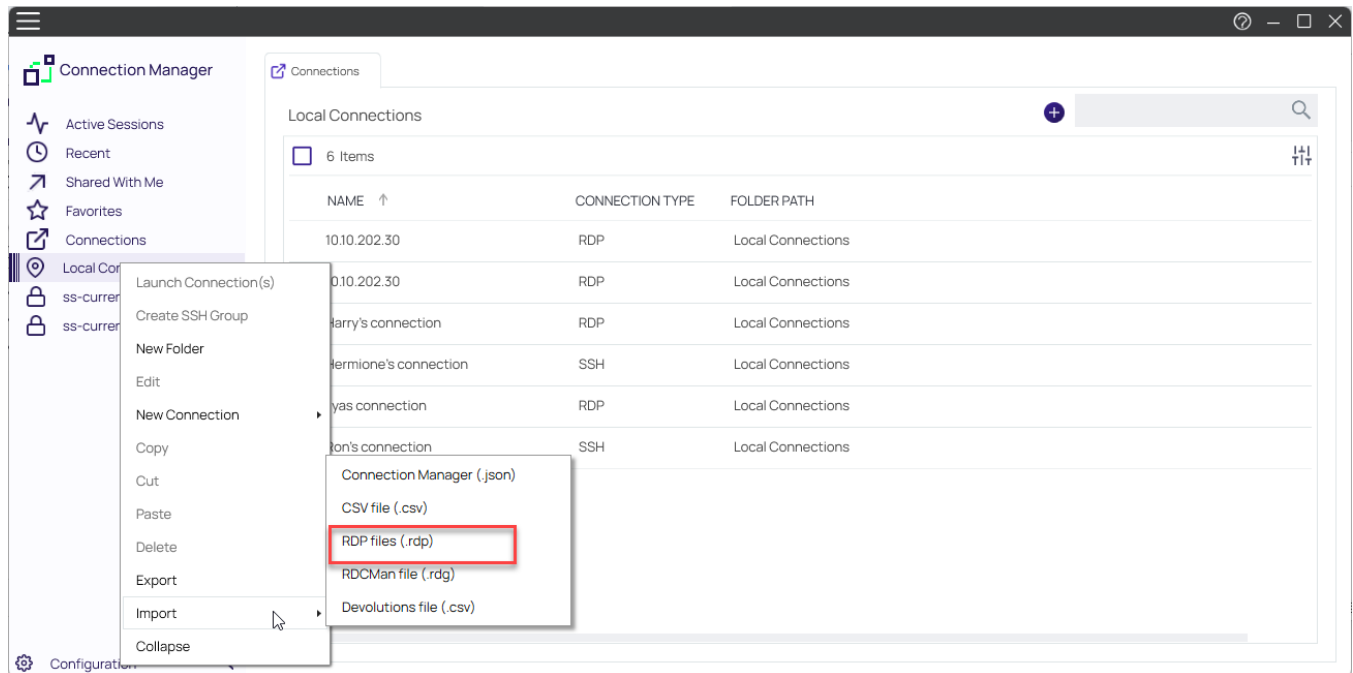
Click **OK** to return back to your Local Connections.

Importing RDP Files

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

Session Connections

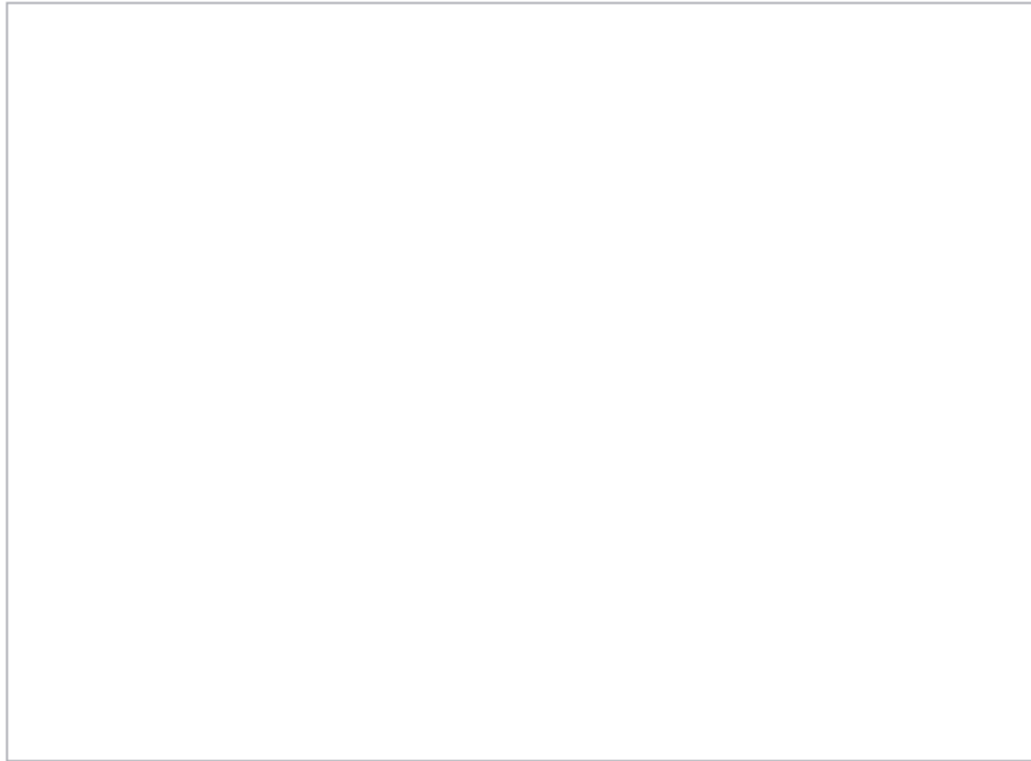
1. Right click on **Local Connections**
2. Hover over **Import** and select **RDP**



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

Import RDP files (.rdp)

Select RDP files



Browse

Cancel

Finish

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

Import RDP files (.rdp)

Select RDP files

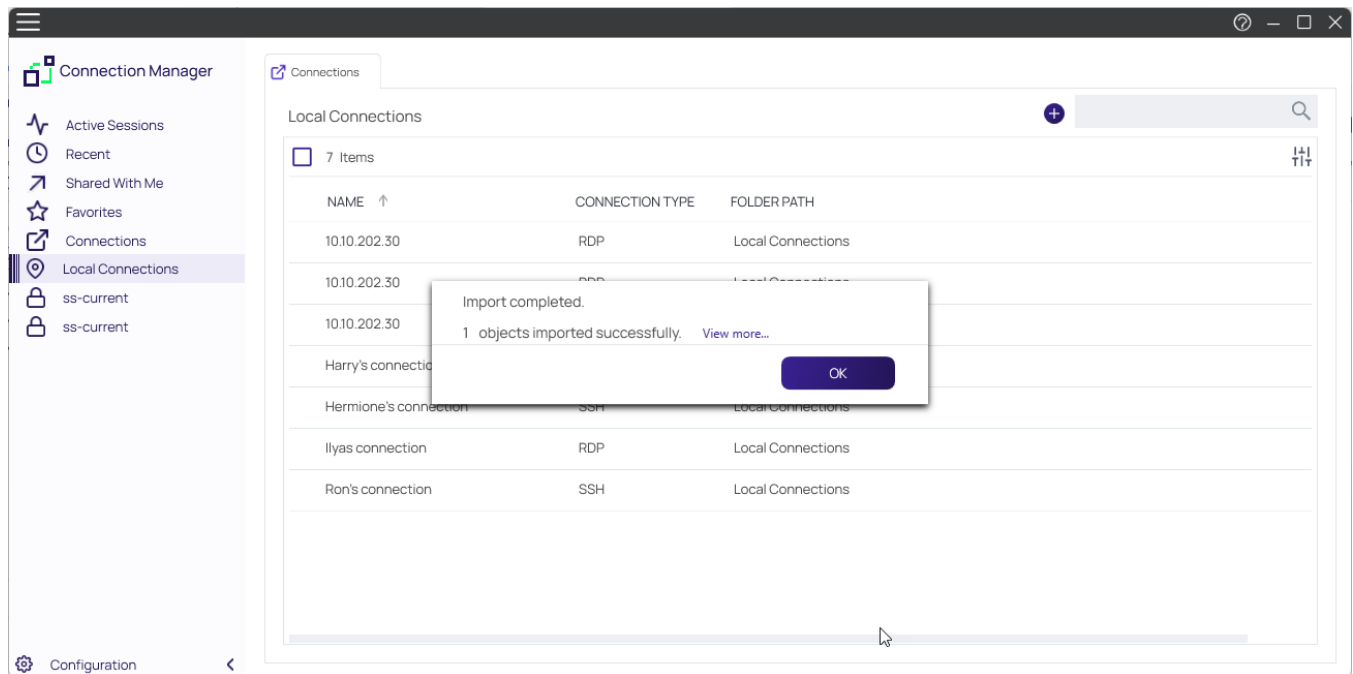
C:\Users\ilyus\Downloads\RDP Test.rdp Remove

Browse

Cancel Finish

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

Session Connections



6. Click **OK** to return back to Local Connections.

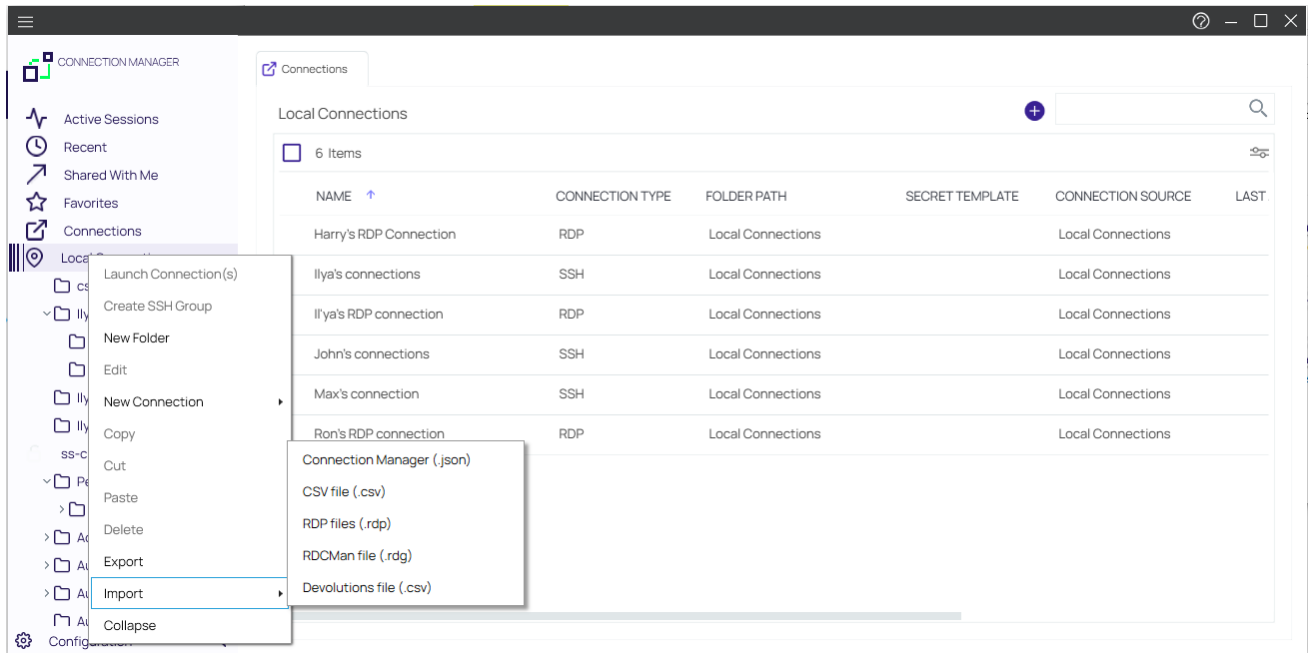
Importing CSV Files

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**.

Session Connections



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.

Import from a CSV file
Step 1 of 2: Please, enter CSV parameters

CSV File* [Browse](#)

Connection Type*

Delimiters

- Comma (,)
- Tab
- Semicolon (;)

2. Click **Next**.

Import from a CSV file

Step 2 of 2: Please, enter mapping

Has Headers

Parameter	CSV Field	< Example >
Connection Name *	Name	3
Computer Name *	Host name	3
Port	Port	3389
Credentials	Unmapped	
User Name	Username	EAM05\administrator
User Domain	Unmapped	
Password	Password	pbdaemon2005
Desktop Width	Custom width	1600
Desktop Height	Custom height	1200
Auto Expand	Auto expanding	False

Back

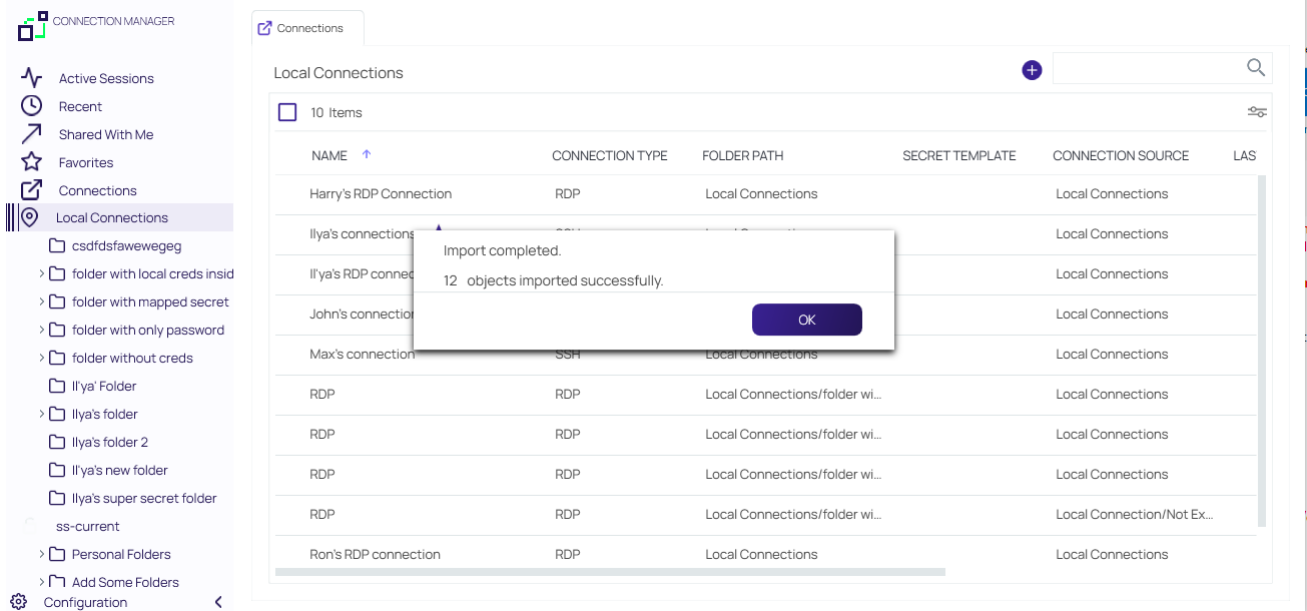
Cancel

Finish

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.

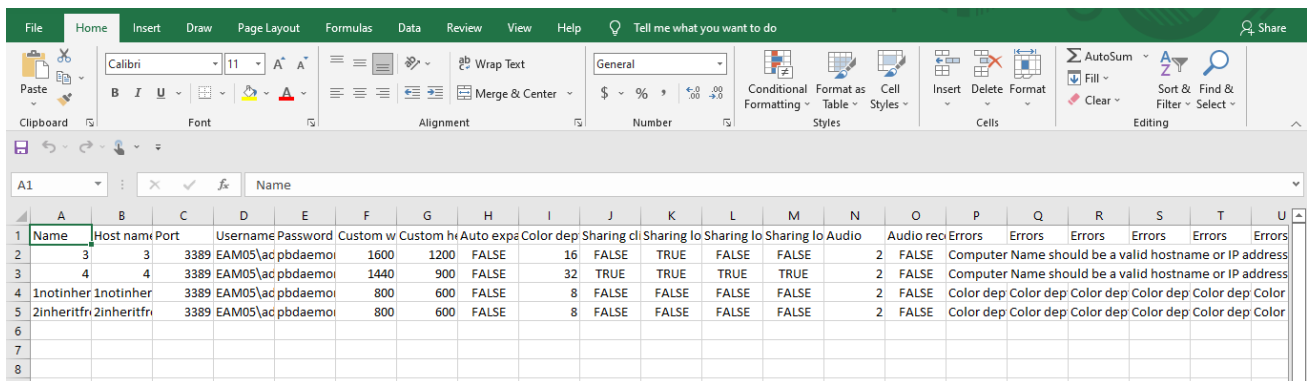
3. Click **Finish**.

Session Connections



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.

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



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.

- 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	

Back

Cancel

Finish

Field Values and Types

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

Session Connections

Name	Type	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 1 0
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	

Session Connections

Name	Type	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

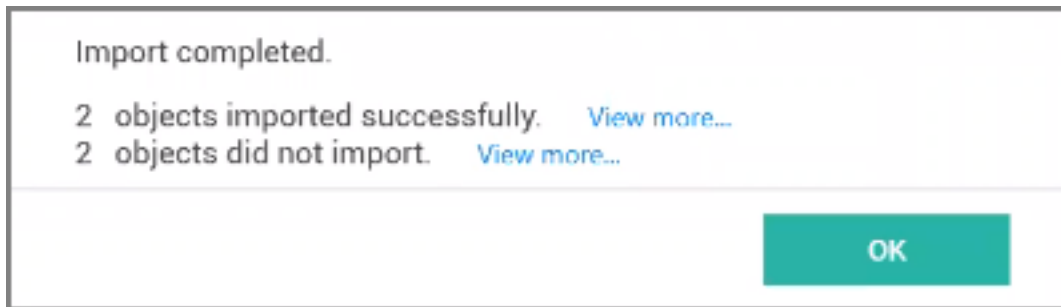
//16:9 resolutions

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.



- 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.

Global Configuration Settings

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 Configuration Settings

Global Configurations

RDP Global Settings SSH Global Settings Preferences Launcher Settings

Initial Size:

Auto Resize:

Color Depth:

Run As Admin:

Local Devices: Select resources to use in remote session:

Printer Drives [Specify Drives..](#)

Clipboard Smart Cards

Windows Shortcuts:

Audio Playback:

Audio Recording:

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**.

Global Configurations

RDP Global Settings

SSH Global Settings

Preferences

Launcher Settings

Remote Character Set

Unicode (UTF-8)

Font

Courier New

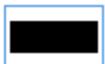
Font Size

8

Color Presets

Default

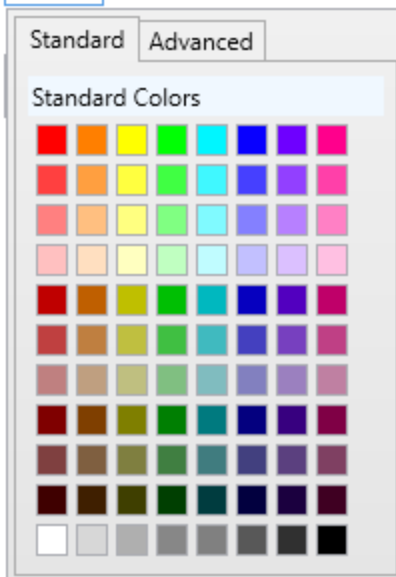
Background Color



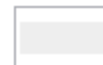
Bold Color



Foreground Color



Color



Cancel

Save

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

RDP Global Settings

SSH Global Settings

Preferences

Launcher Settings

Protocol Handler

Connection Manager	▼
Connection Manager	
Secret Server Launcher	

Cancel

Save

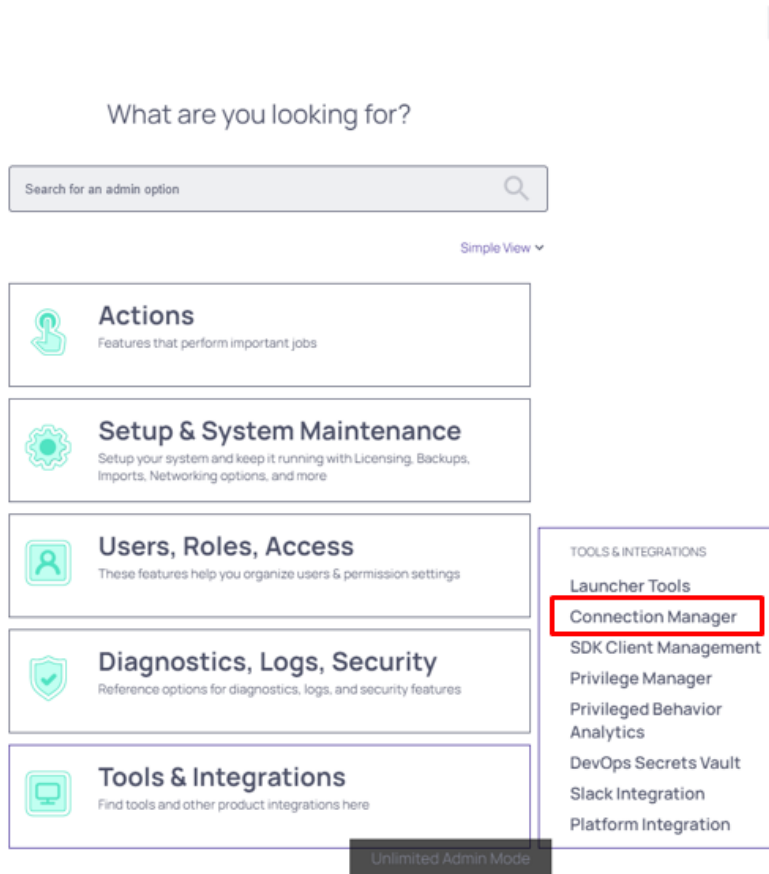
Globally Enforced Secret Server Settings

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**.

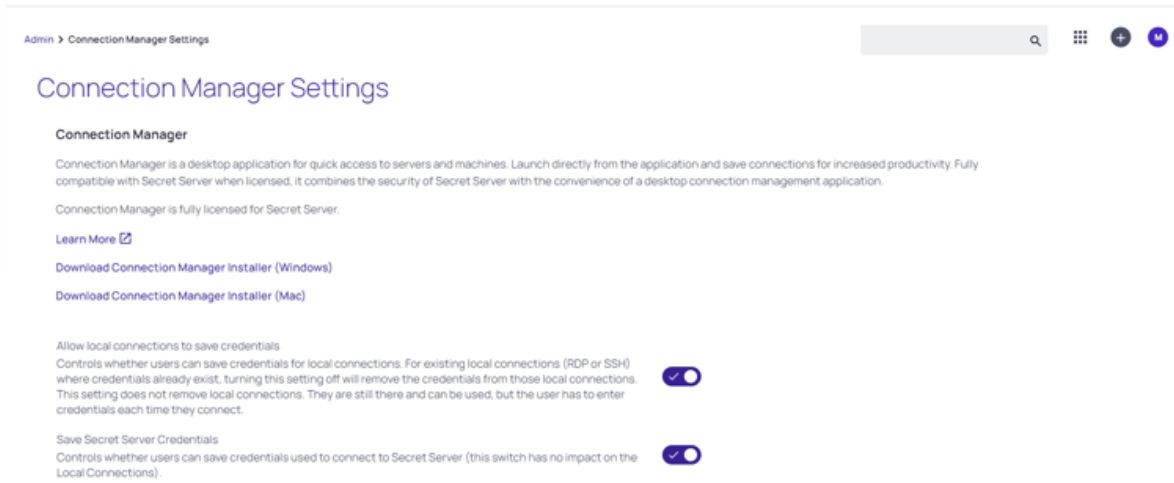


These options are by default enabled:

- 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*

Credentials*

Cancel

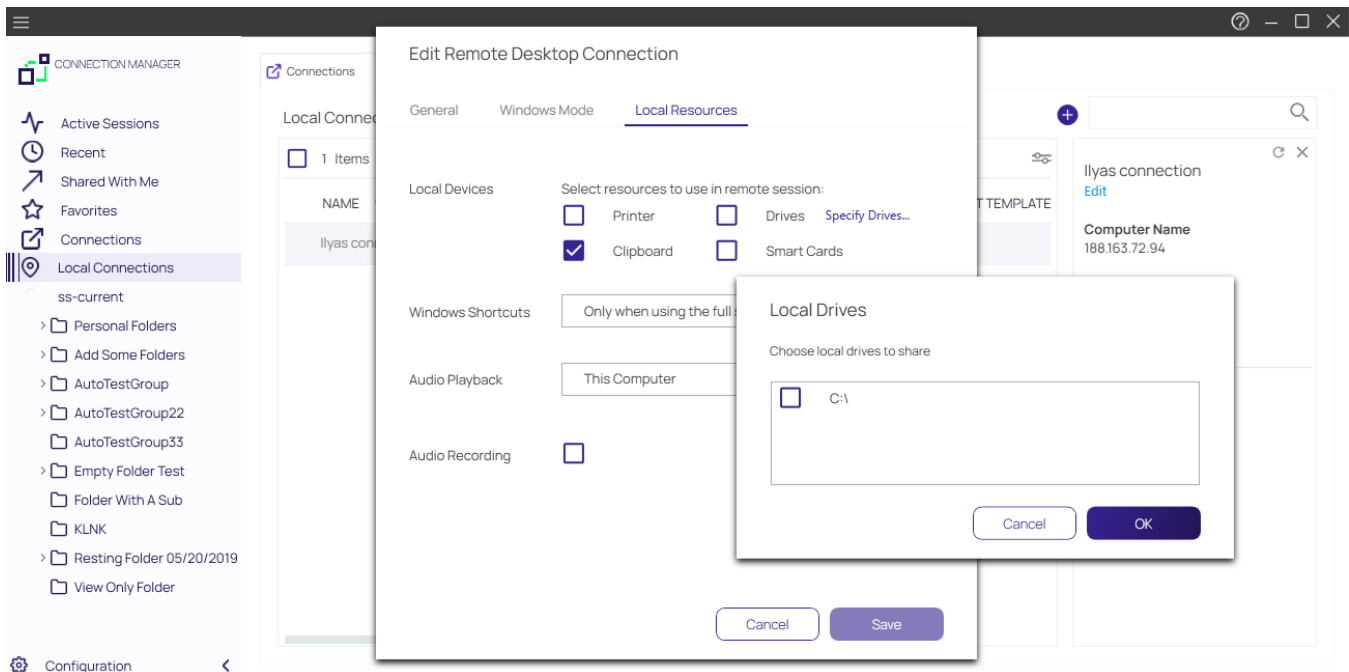
Create

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.

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



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

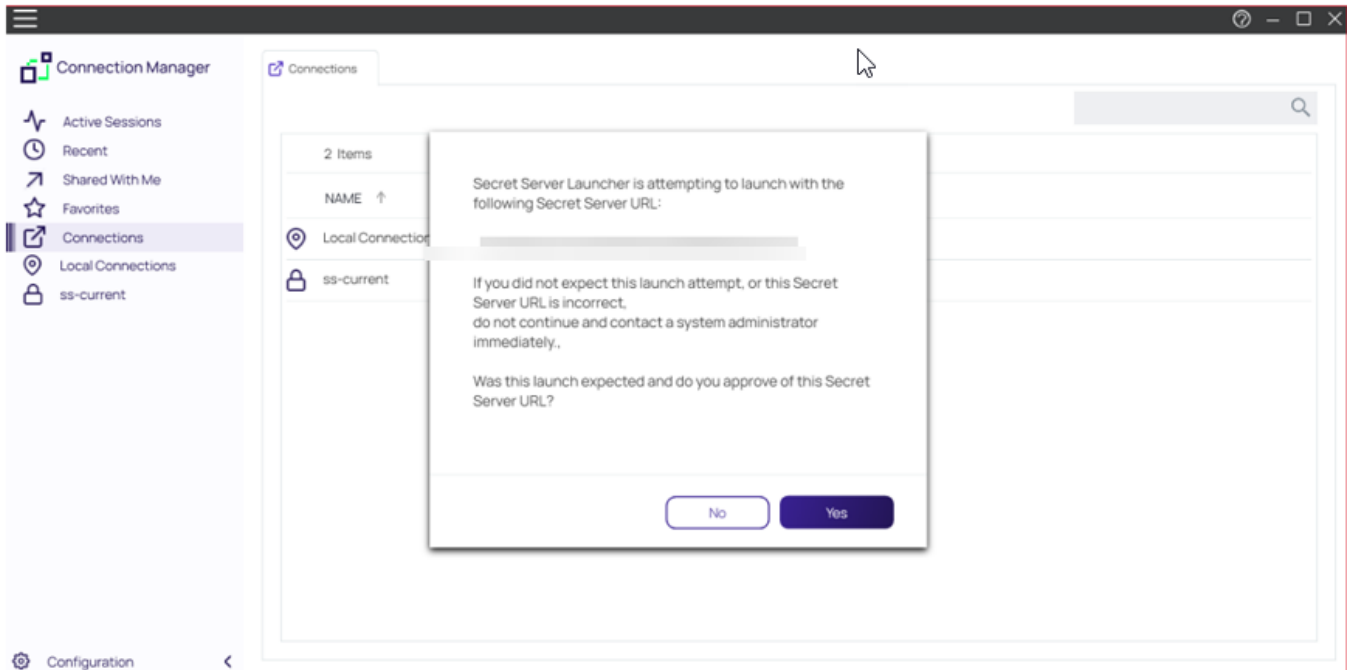
Command Line Procedure

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 or deny approval URL and the system will automatically remember this selection for future use.



Connection Manager will 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

RDP Global Settings

SSH Global Settings

Preferences

Launcher Settings

Initial Size

Auto

Auto Resize

Auto

Size 640x480

Size 800x600

Color Depth

Size 1024x768

Size 1280x720

Run As Admin

Size 1280x800

Size 1280x960

Local Devices

Size 1366x768

Size 1600x900

Size 1680x1050

Size 1920x1080

Windows Shortcuts

Only when using the full screen

Audio Playback

This Computer

Audio Recording

Cancel

Save

Global Configurations

RDP Global Settings

SSH Global Settings

Preferences

Launcher Settings

Initial Size

Auto Resize

Color Depth

Run As Admin

Local Devices Select resources to use in remote session:


<input type="checkbox"/>	Printer	<input type="checkbox"/>	Drives	Specify Drives..
<input checked="" type="checkbox"/>	Clipboard	<input type="checkbox"/>	Smart Cards	


Windows Shortcuts

Audio Playback

Audio Recording




 **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.

Launchers

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

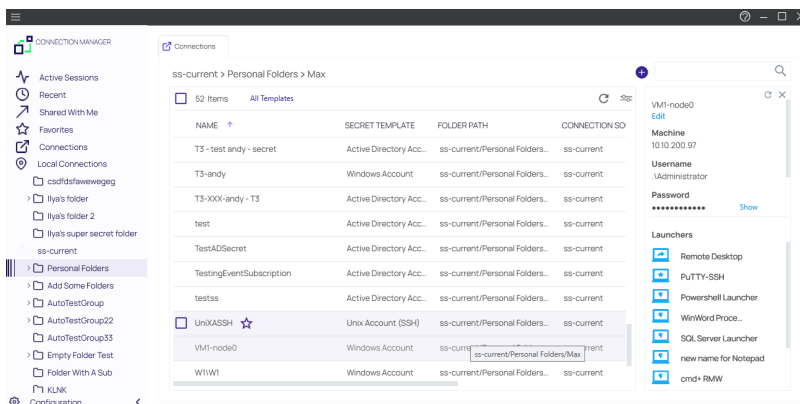
 **Note:** If RDP proxy is ON, no reconnect will be attempted because RDP proxy requires a one time password and it is impossible to reuse the same credentials to reconnect.

Launchers

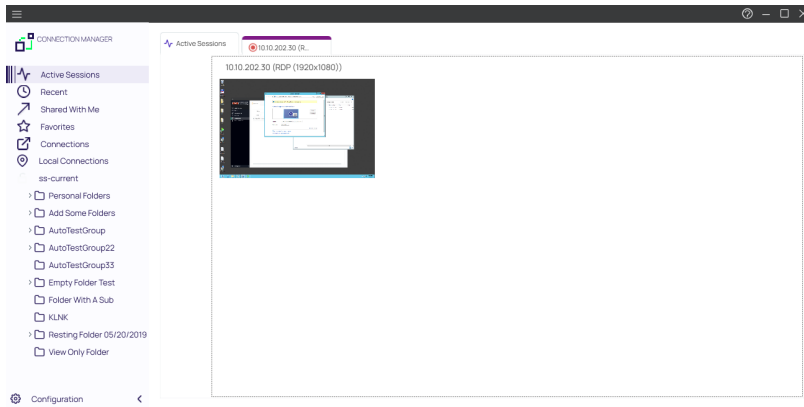
Connection Manager can act as a protocol handler, which means that Connection Manager can launch Secret Server Secrets that use other Launcher types directly from the Connection Manager UI. Connection Manager supports any launcher that is supported by Secret Server and includes, but is not limited to: 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.




Launchers



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

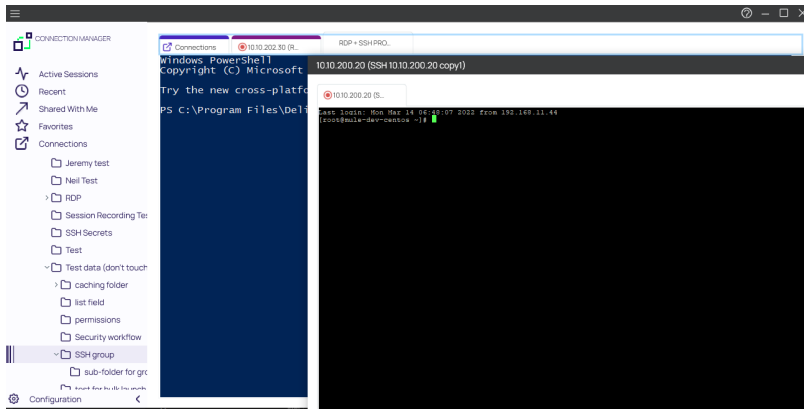
When you maximize an active RDP session window or you drag it as a standalone window to a second monitor, the session automatically disconnects and reconnects so it can use the highest supported screen resolution for the new window view. When you do the same with an active RDP *Proxy* session window, 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

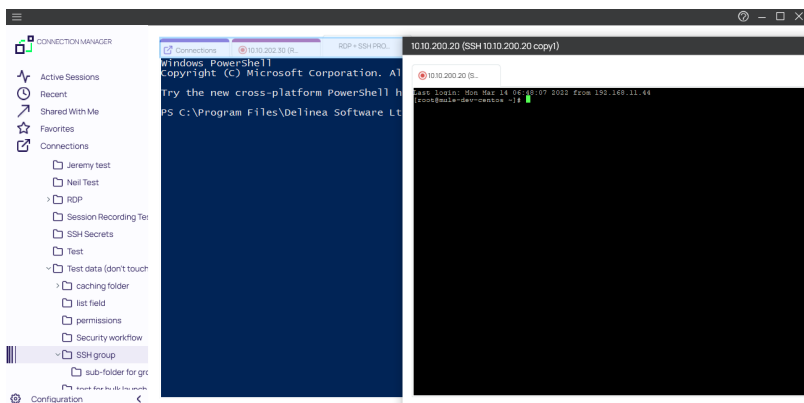
You can undock, move, and redock session tabs and windows in Connection Manager. To undock a session window, click the session tab and drag it out of the tab dock area. The tab becomes a standalone session window, which you can drag to another monitor or to another location on your desktop.

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:

Launchers



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 128 for more information.

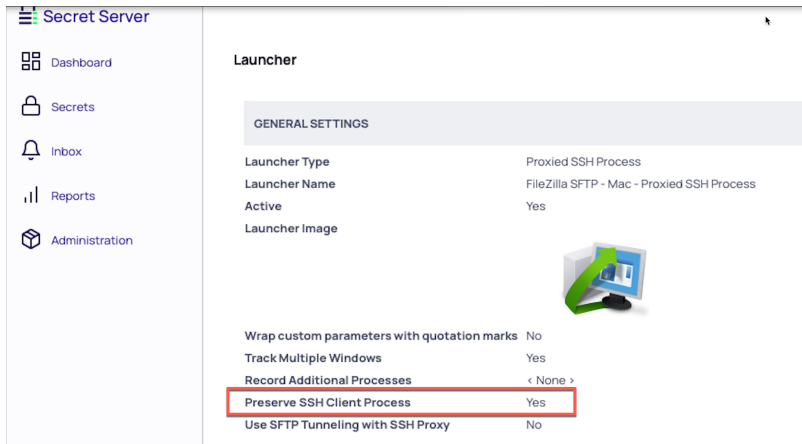
A typical example are Xming implementations of Secure Shell (SSH) to securely forward X11 sessions from other computers. While recording an Xming session, all windows created are recorded and if a user tries to use X11 forwarding for example in Chrome, the new Chrome window will be recorded too.

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*

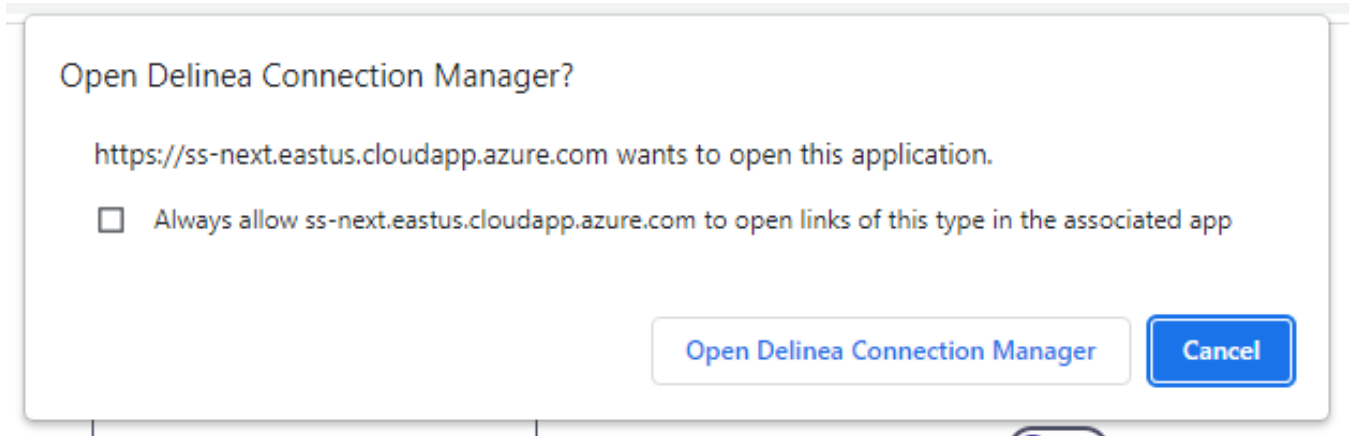
Launchers

SSH Process is set and the flag *Preserve SSH Client Process - True* is enabled.

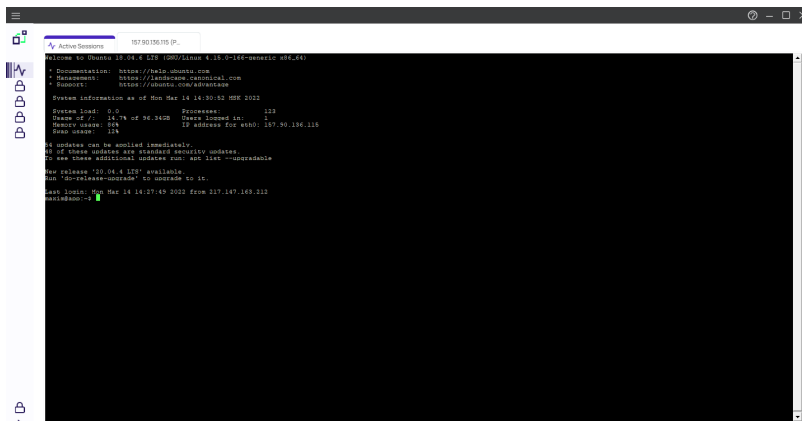


Launching from Secret Server without Connection Manager Open

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



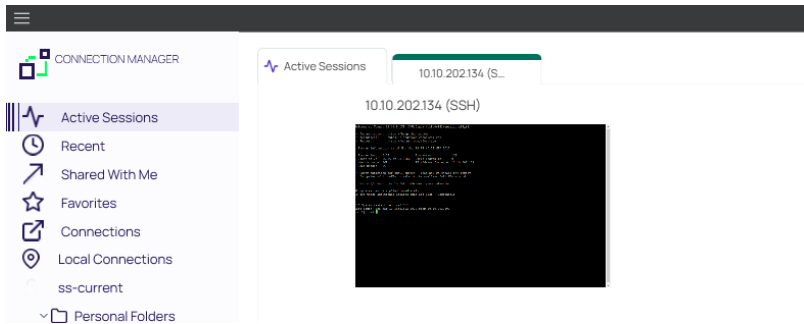
Click **Open Connection Manager** and an active session is launched in Connection Manager:



Launchers

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,

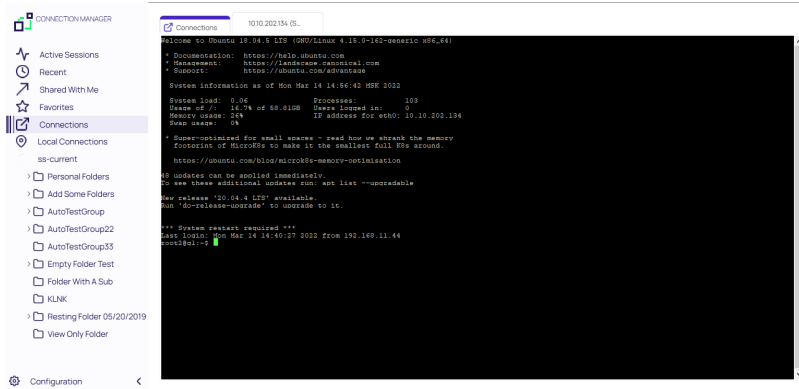
1. From the hamburger menu, select **File | Sign in** or right-click on Active Session and select **Sign in**.

The image shows a 'Sign In' dialog box. At the top, it says 'Sign In' and 'Enter your password to access the local storage file.' Below this is a horizontal line. Underneath the line is a 'Password' label followed by a text input field. At the bottom left, there is a link that says 'Create new local storage file (All existing connections will be lost)'. At the bottom right, there are two buttons: 'Cancel' and 'Sign In'.

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

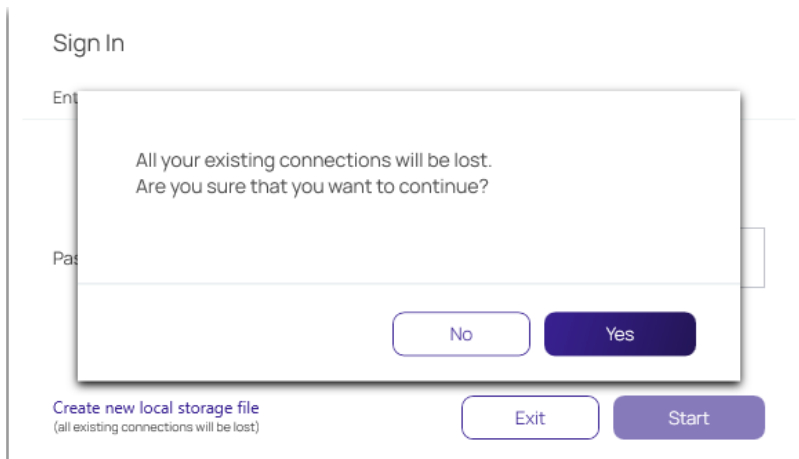
Once signed in, the user has access to all connections and all Connection Manager functionality is unlocked.


Launchers



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:



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

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



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: `--environment-path /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](#) 

Process name	None
Process arguments	None

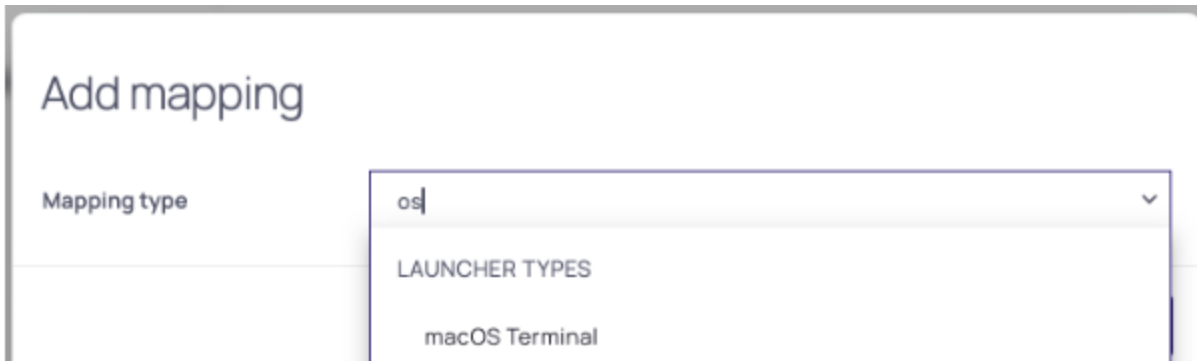
Mac settings

Configure the command that will run on Mac computers when this launcher is initiated
[How do I process arguments](#) 

Process name	TerminalSSH
Process arguments	<code>--password \$PASSWORD --port \$PORT --username \$USERNAME --host \$HOST</code>

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

Follow the directions for [editing a secret template](#) 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.



Launcher name macOS Terminal Remove Edit
Restrict user input No

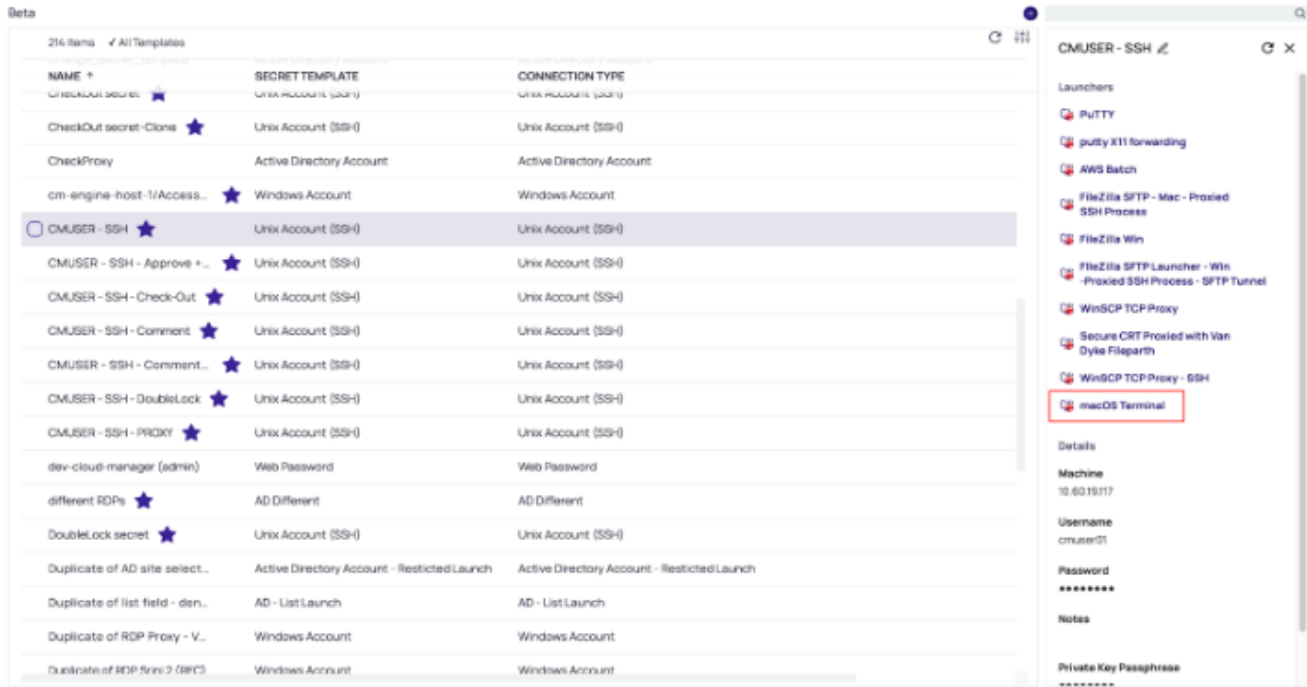
Fields

LAUNCHER FIELD	SECRET FIELD
Host	Machine
Password	Password
Port	22
Username	Username

Step 3: Launch SSH Secret from Connection Manager

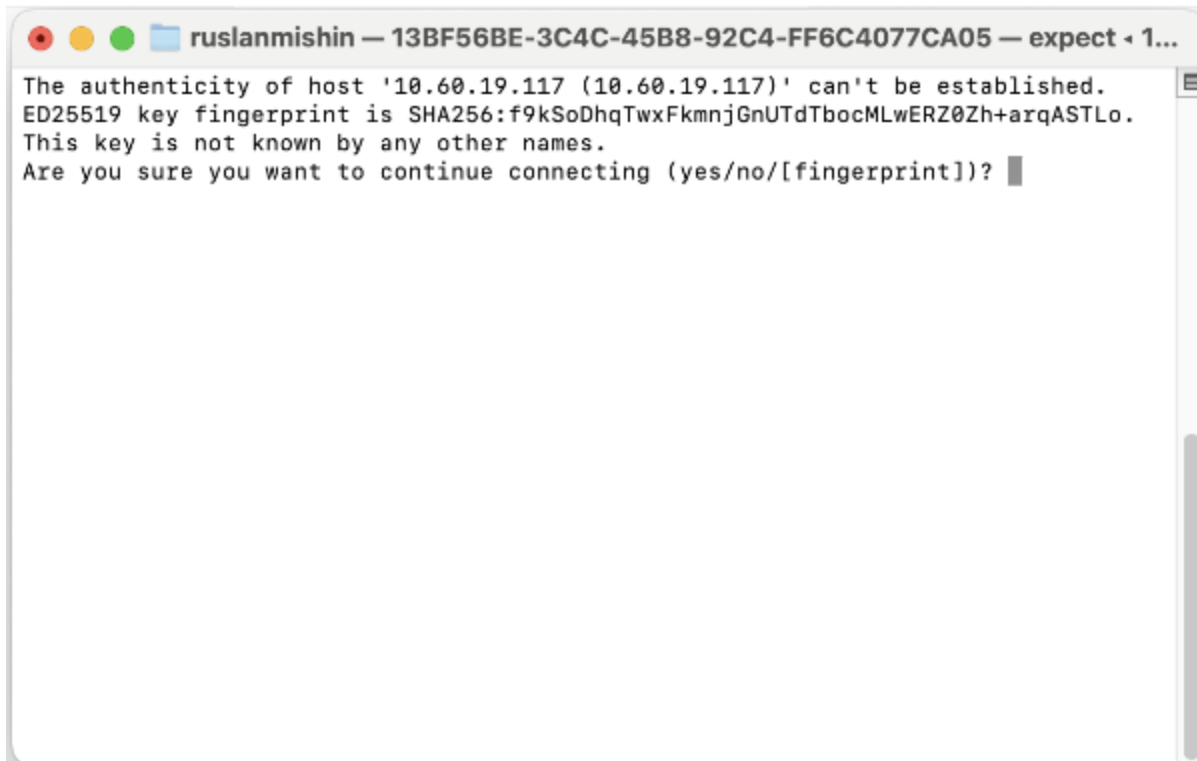
Within the Connection Manager application, [authenticate to the desired vault](#) and use macOS Terminal as the secret launcher rather than PuTTY.

Launchers



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.

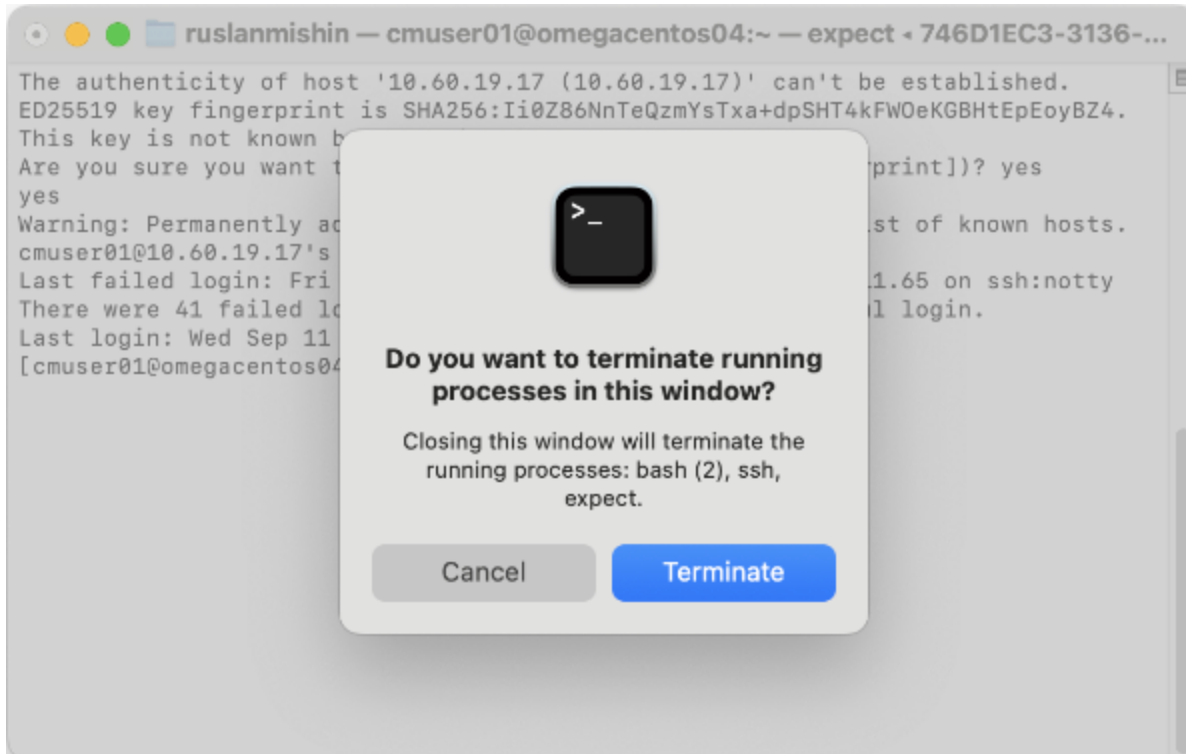


Launchers

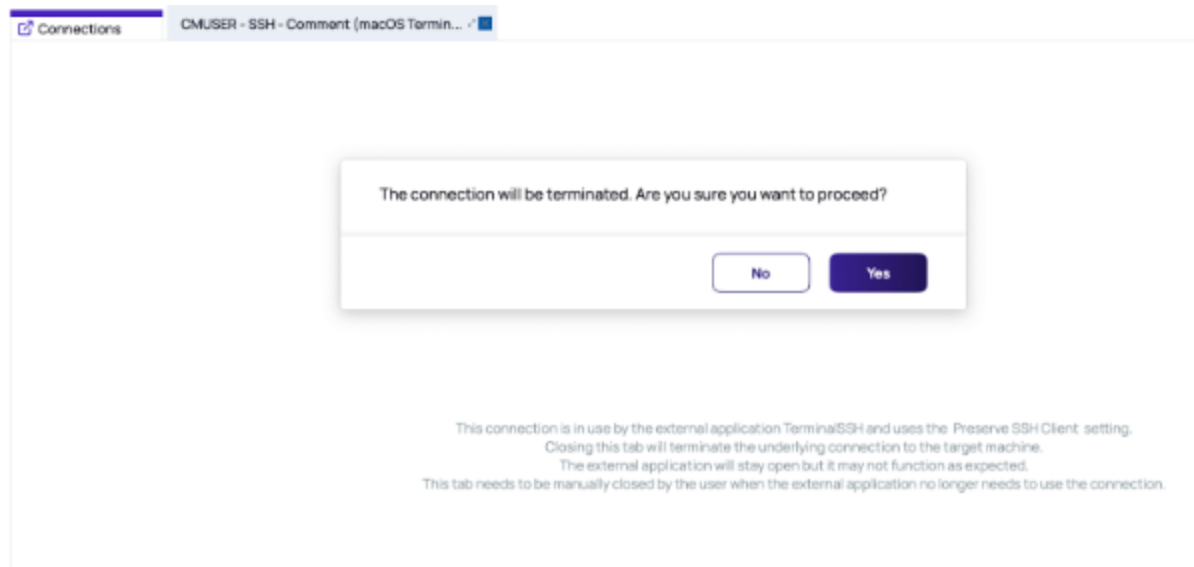


```
ruslanmishin — cmuser01@omegacentos04:~ — expect - 746D1EC3-3136-...
The authenticity of host '10.60.19.17 (10.60.19.17)' can't be established.
ED25519 key fingerprint is SHA256:Ii0Z86NnTeQzmYsTxa+dpSHT4kFWOeKGBHtEpEoyBZ4.
This key is not known by any other names.
Are you sure you want to continue 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 EDT 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.



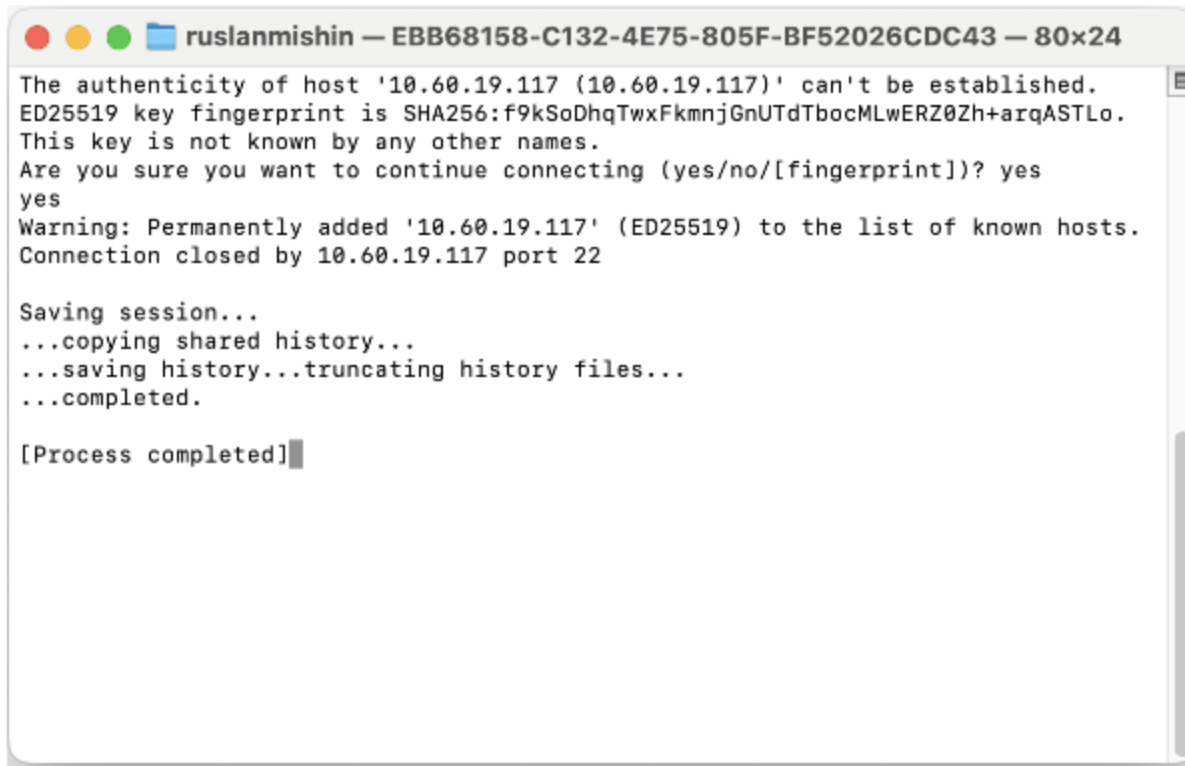
Launchers



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.

A terminal window titled "ruslanmishin — EBB68158-C132-4E75-805F-BF52026CDC43 — 80x24". The terminal output shows an SSH connection attempt to 10.60.19.117. It displays a warning about the authenticity of the host, a key fingerprint, and a confirmation prompt. The user responds with 'yes', and the terminal shows a warning that the host has been permanently added to the known hosts list. The connection is closed, and the terminal shows session saving and history truncation steps, ending with "[Process completed]".

```
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:f9kSoDhqTwxFkmnjGnUTdTbocMLwERZ0Zh+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...
...saving history...truncating history files...
...completed.

[Process completed]
```

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 68
- [Integrated Connections](#)
- "Re-authenticating to a Vault" on page 62
- Log File Location

Connections

The following Connections related topics are available:

- "Re-authenticating to a Vault" on page 62
- [Remote connections](#)
- [Integrated connections](#)

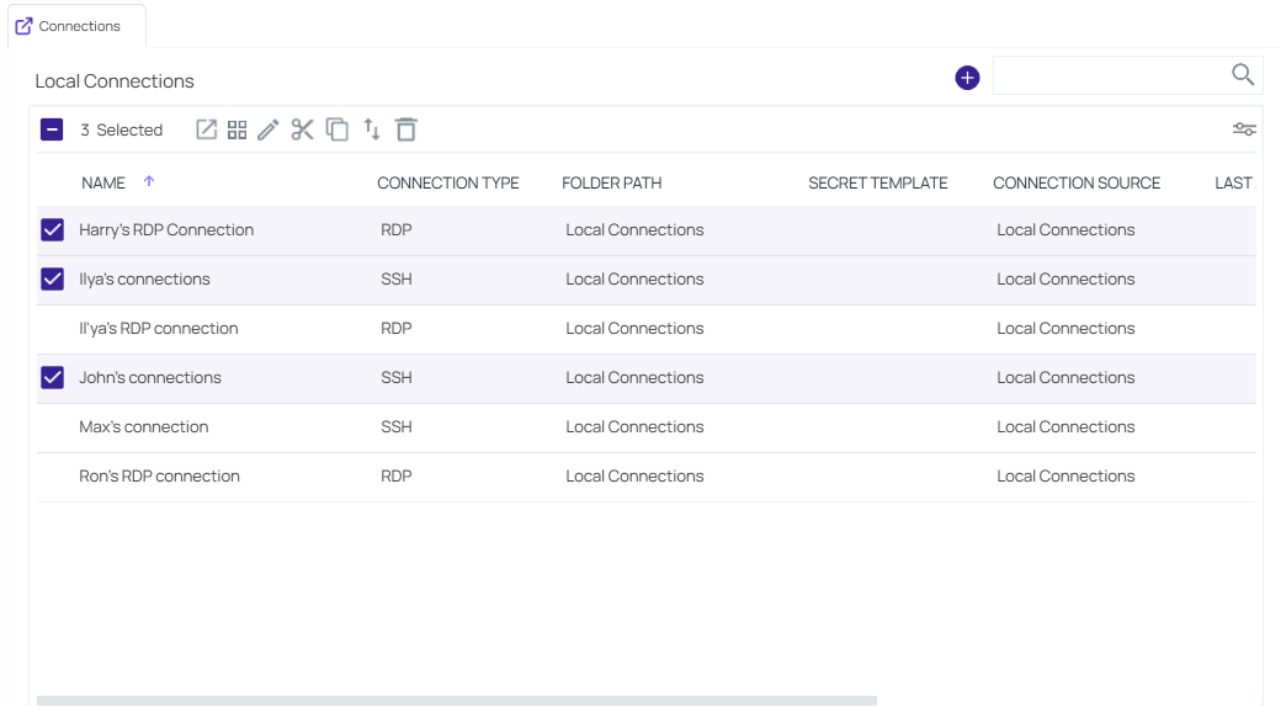
Batch Opening Connections

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.



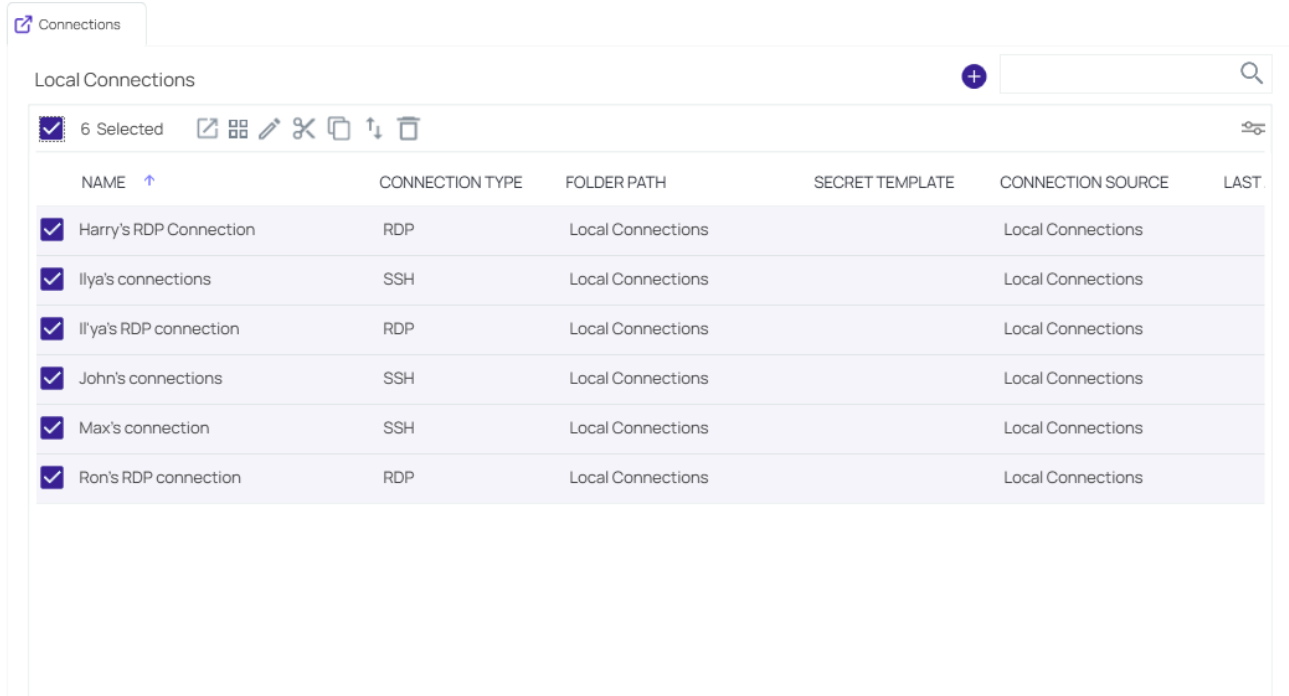
2. In the toolbar click the **Connect** icon.

Batch Opening All Connections in a Folder

You can batch open all connections in a folder, at the folder level.

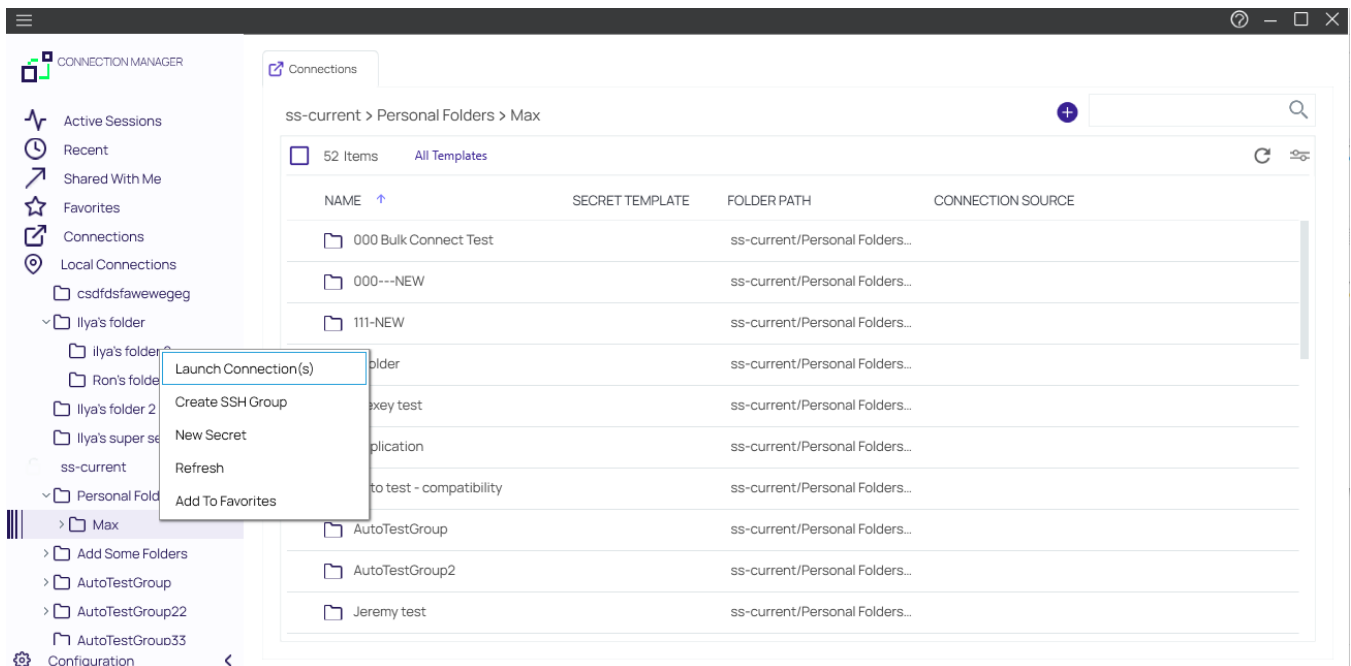
Common User Activities

1. Click to check the box before the folder whose connections you wish to batch open.



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.



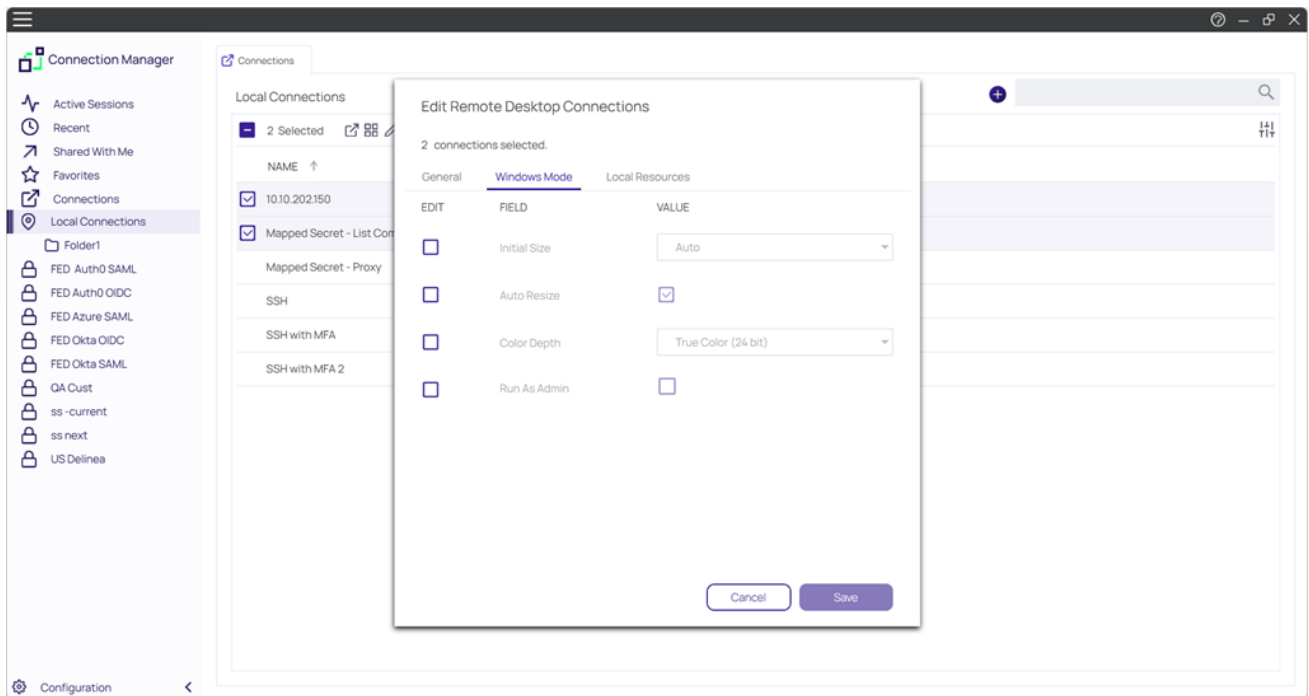
Batch Editing Local Connections

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



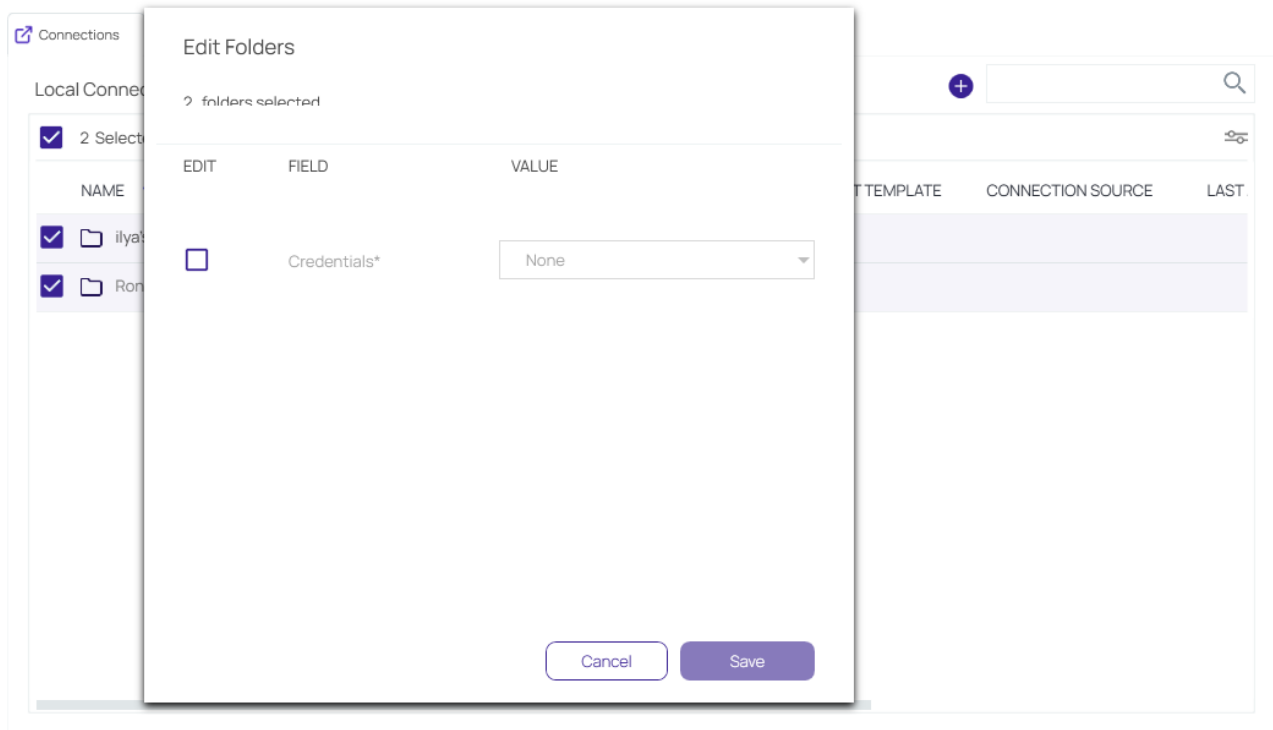
2. In the toolbar click the **Edit** icon.
3. Edit the settings you wish to apply to all of your selected connections and click **Save**.

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.

Common User Activities

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



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.


```
<applicationSettings>
  <Delinea.ConnectionManager.Wpf.Properties.Settings>
    <setting name="UpdateOnStartup" serializeAs="String" >
      <value>>false</value>
    </setting>
  </Delinea.ConnectionManager.Wpf.Properties.Settings>
</applicationSettings>
```

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 130 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">
```

Common User Activities

```
<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:

```
<system.net>
  <defaultProxy enabled="True" useDefaultCredentials="True">
    <proxy proxyaddress="http://proxy.test.com:8080" />
  </defaultProxy>
</system.net>
```

 **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:

Common User Activities

Windows

Adjust the Application Configuration file setting with the needed value:

```
<setting name="ScreenshotsQueueLimit" serializeAs="String">  
  <value>0</value>  
</setting>
```

macOS

Run the following command in the MacOS terminal:

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

Run the following command in the MacOS terminal:

Configuring RDP Connection Timeout Over TCP

This configuration allows the ability to customize RDP connection timeouts in milliseconds. 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 60000 milliseconds as shown below:

MacOS

Run the following command in the MacOS terminal:

```
defaults write com.Delinea.ConnectionManager RDP.TcpAckTimeout -int 60000
```

Windows

Adjust the Application Configuration file setting with the needed value:

```
<setting name="RdpConnectionTimeout" serializeAs="String">  
  <value>60000</value>  
</setting>
```


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

Common User Activities

- 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.

Common User Activities

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 folder

GENERAL FOLDER INFORMATION

Folder Name*

Parent Folder: Local Connections

Credentials* None ▼

- None
- Local Credentials
- Inherit from Folder
- Map Secret

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 folder

GENERAL FOLDER INFORMATION

Folder Name*
Parent Folder: Local Connections

Credentials*

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.

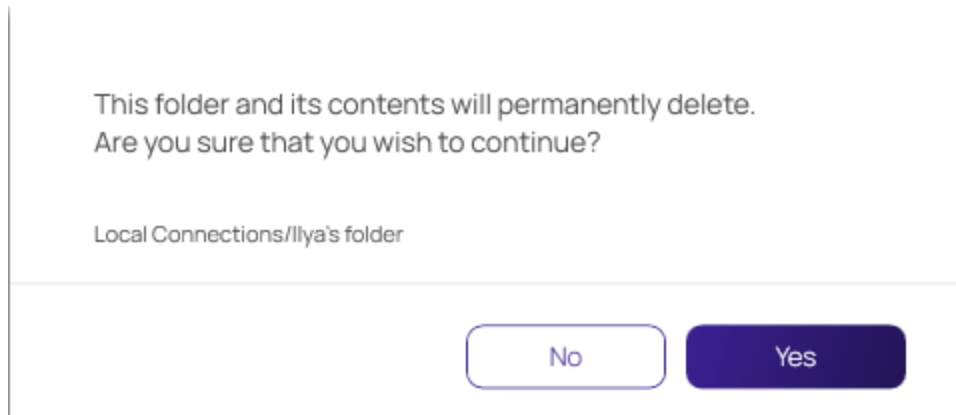
Deleting a Folder

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.

Common User Activities

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.

Edit Remote Desktop Connection

General Windows Mode **Local Resources**

Local Devices Select resources to use in remote session:


<input type="checkbox"/>	Printer	<input checked="" type="checkbox"/>	Drives	Specify Drives...
<input checked="" type="checkbox"/>	Clipboard	<input type="checkbox"/>	Smart Cards	

Windows Shortcuts

Audio Playback

Audio Recording

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

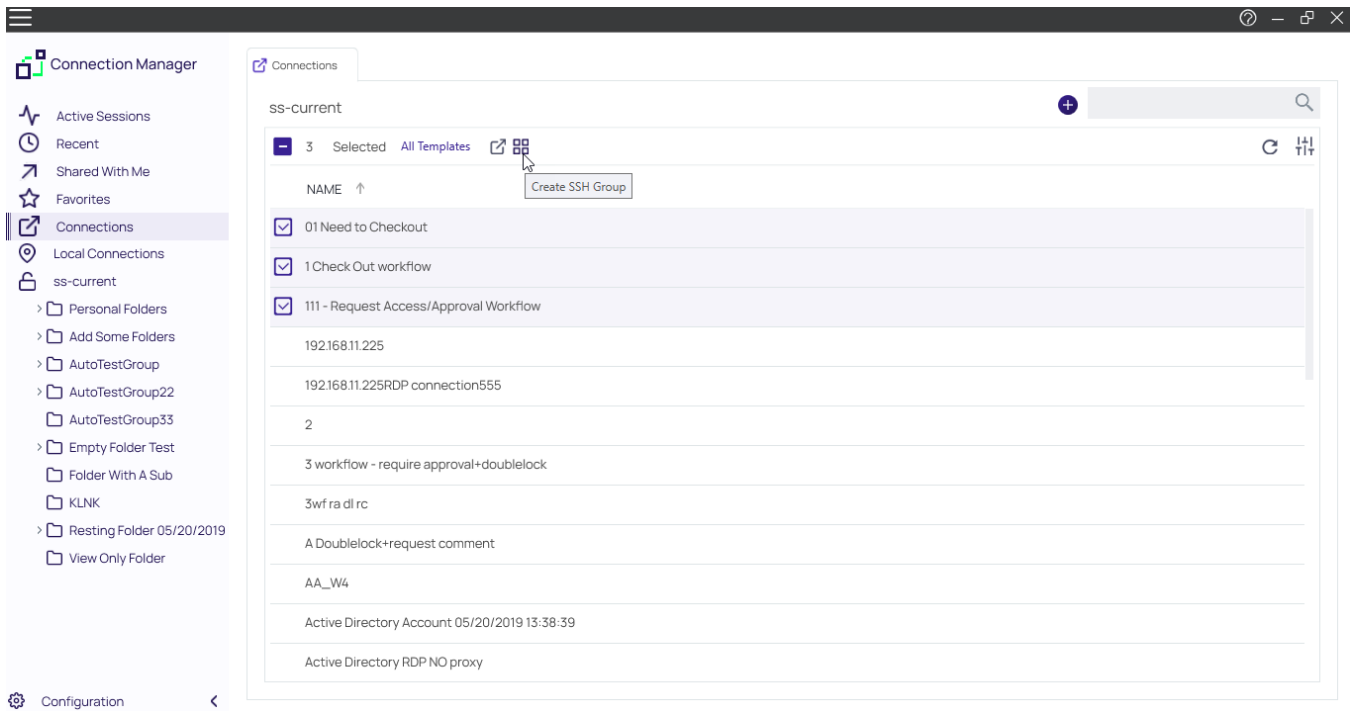
Users can now create one or more groups of active SSH sessions, then send a command or a series of commands in bulk to all active sessions in the group.

Creating and Naming an SSH Group

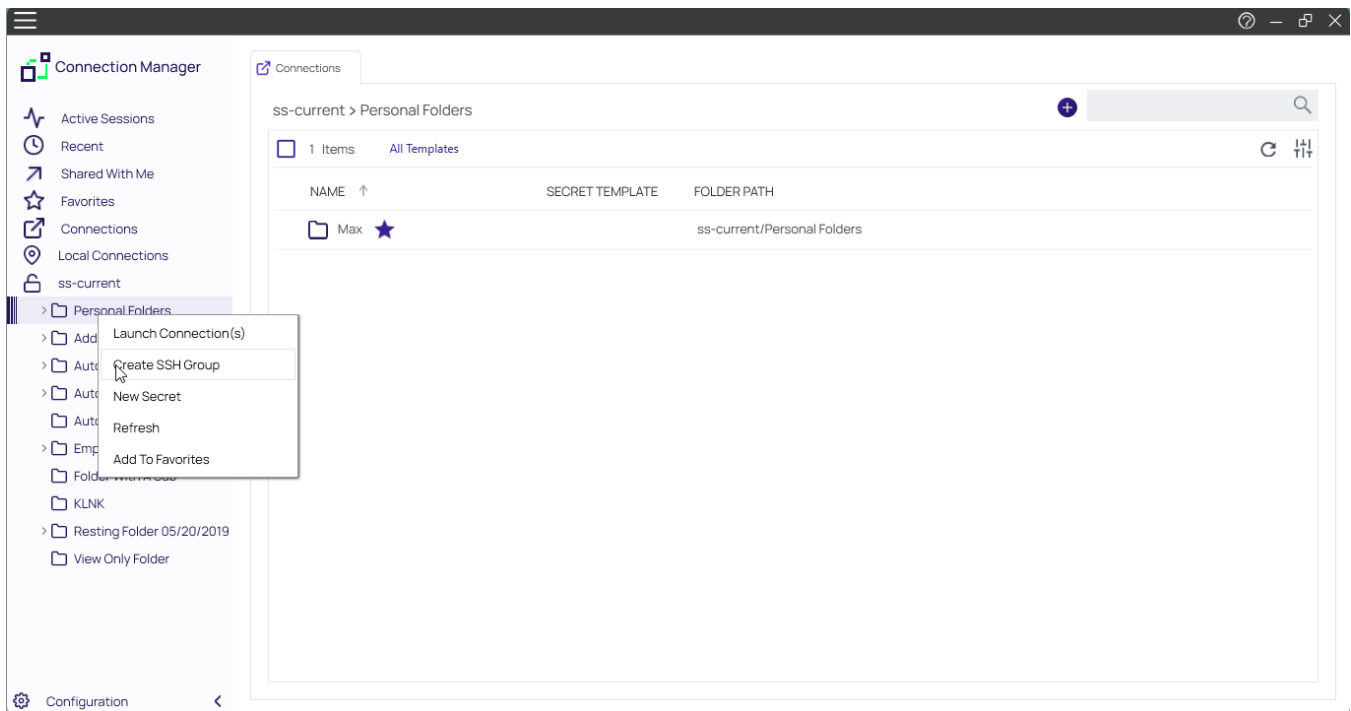
You can create a new SSH Group two ways. The first is this way:

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

Common User Activities

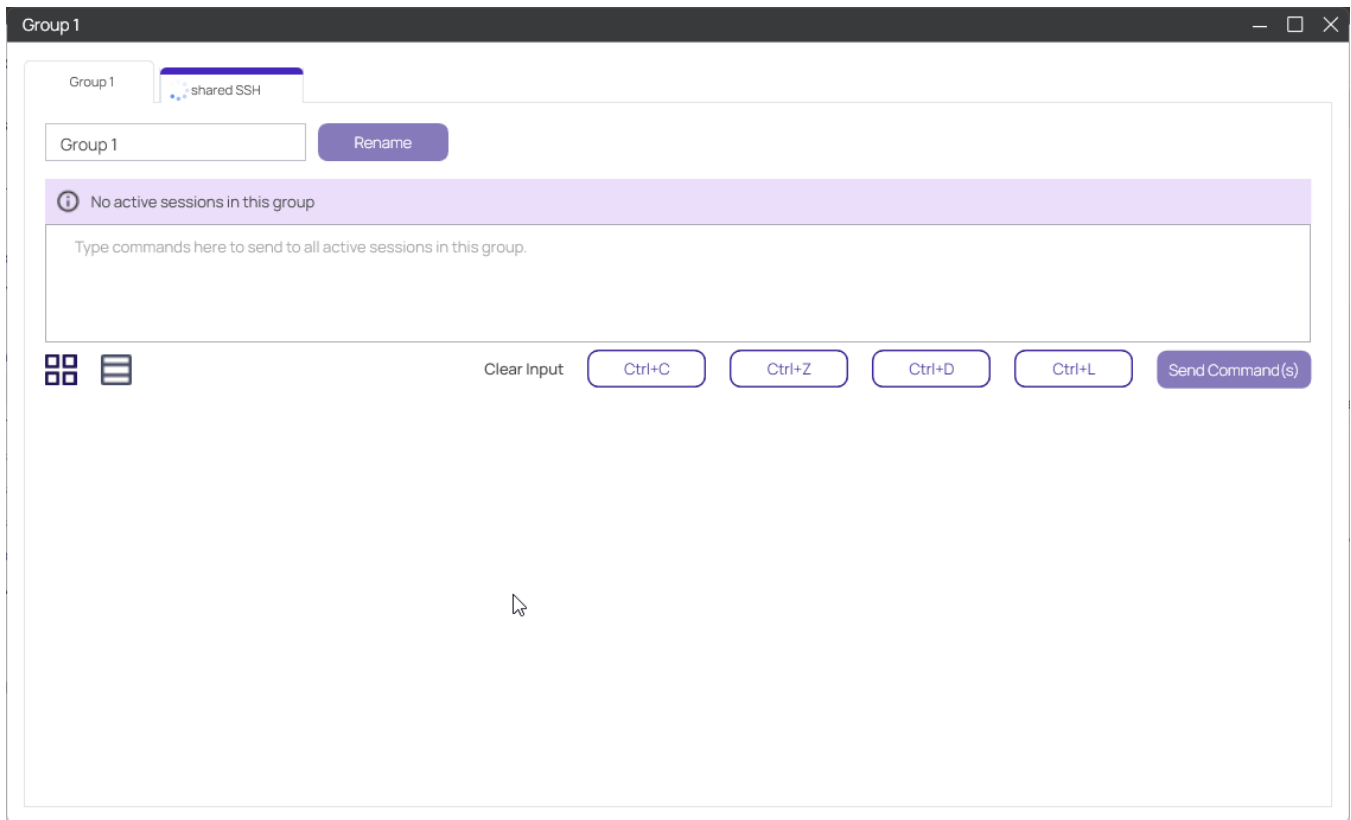


The second is to use the **Create SSH Group** option in right-click context menus.



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.

Common User Activities

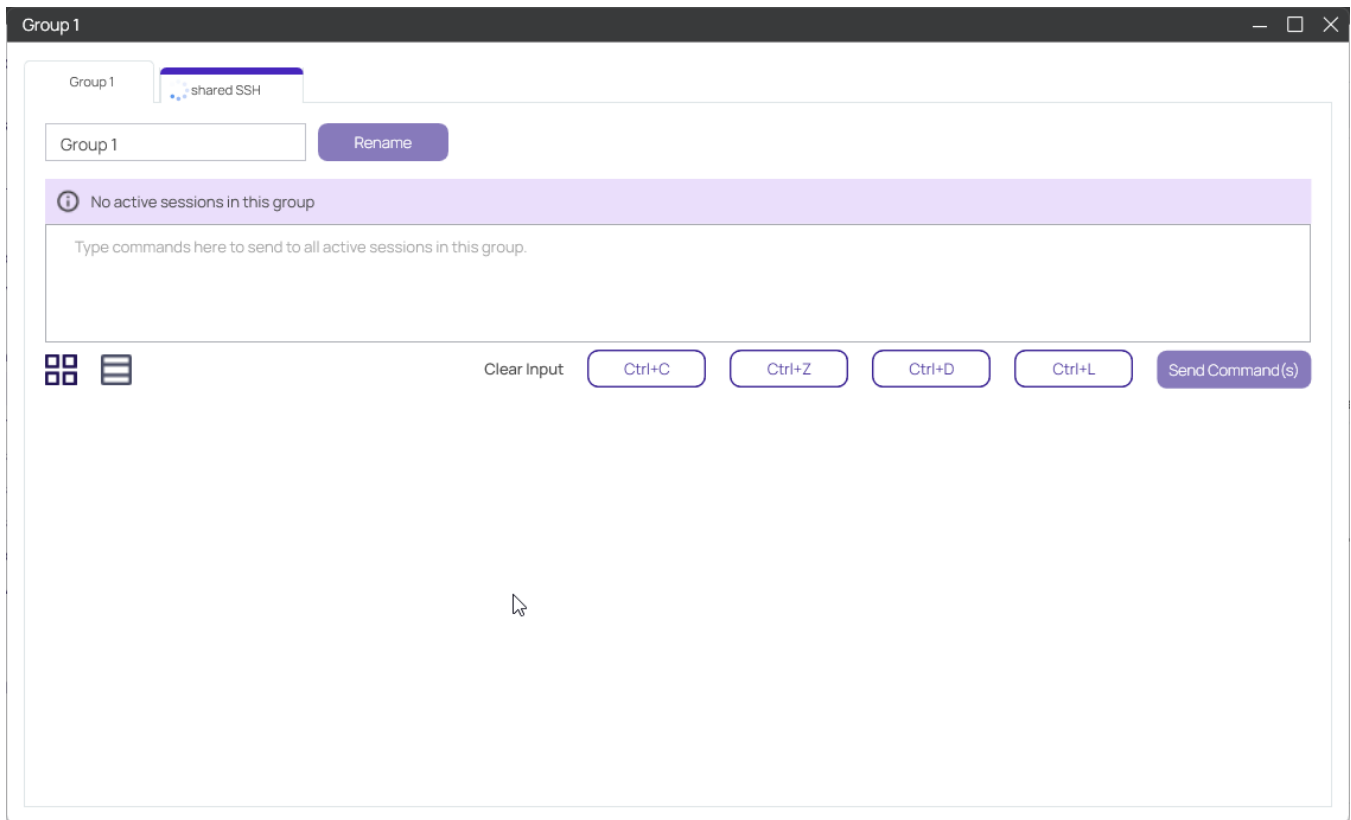


If the user has generated the SSH Group from sessions occupying a single folder, the group tab will be labeled with the name of the original folder. If the user has generated the SSH Group from sessions that did not occupy a single folder, the group tab will be labeled with a generated sequential name 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.

Common User Activities



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.

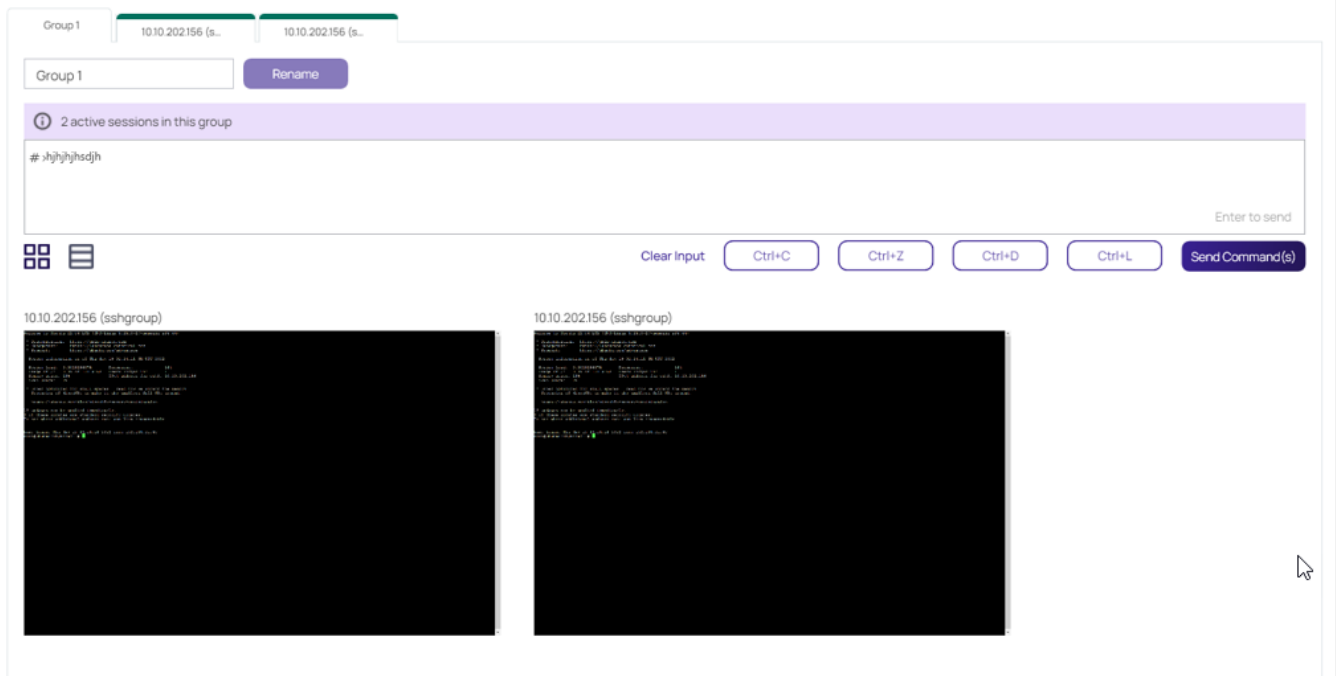
Options for Displaying SSH Sessions on the Group Tab

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.



Common User Activities



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 Secure Shell (SSH) Connection

General

Advanced

Private Key File

Tunnels

Available Tunnels 0 items

Add a Tunnel

Local Port

Destination Server

Destination Port



Cancel

Save

Secrets with Workflows

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

Secrets with Workflows

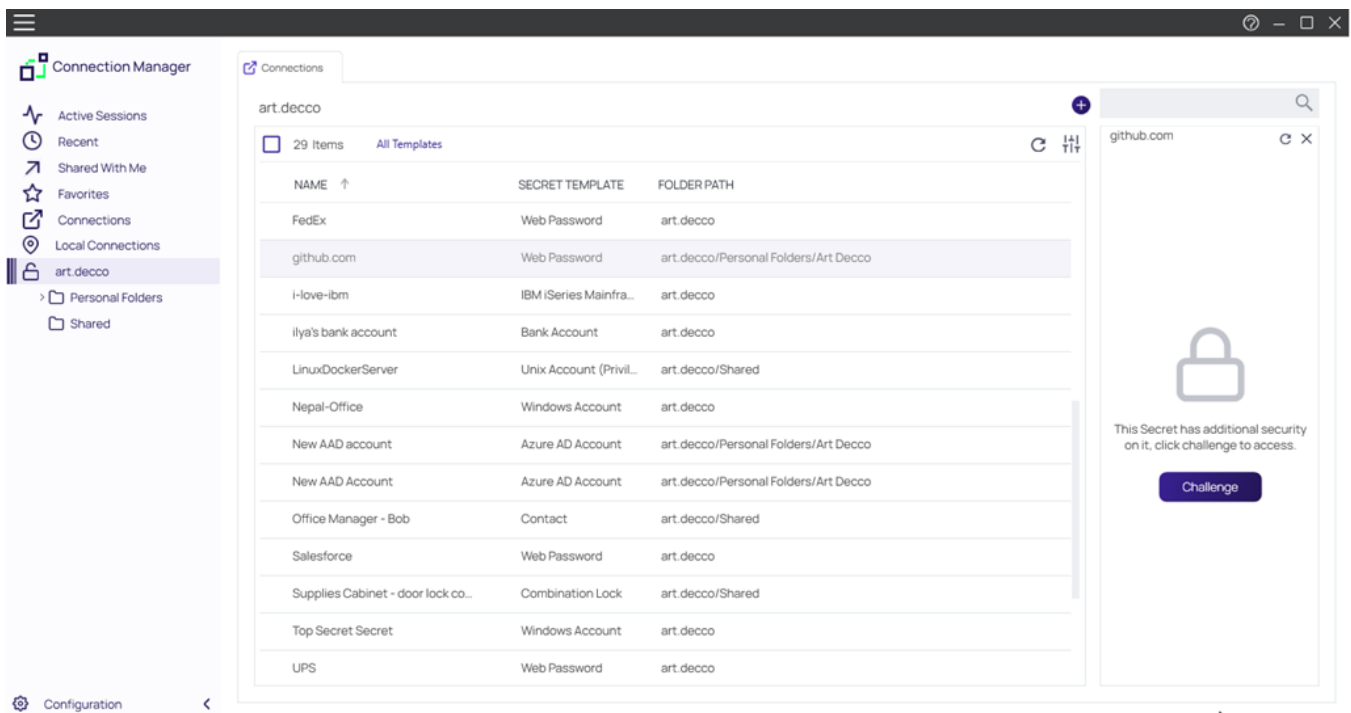
- Prompt for Reason or Ticket System
- Request Access
- QuantumLock

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.

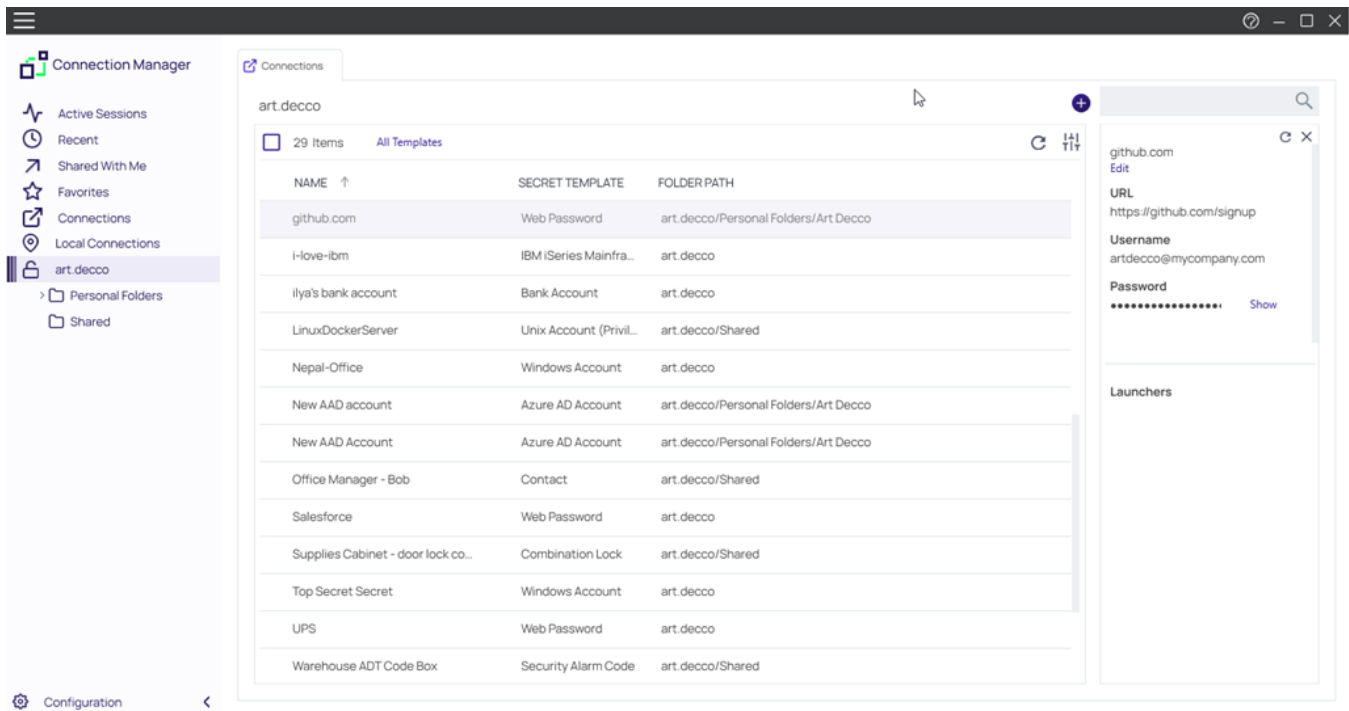
Accessing Secrets Guarded by Multi Factor Authentication

Delinea Platform users can access secrets guarded by MFA through Connection Manager. When a user attempts to access a secret guarded by MFA, they will see a message that they must complete an additional MFA challenge:



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.

Secrets with Workflows



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.

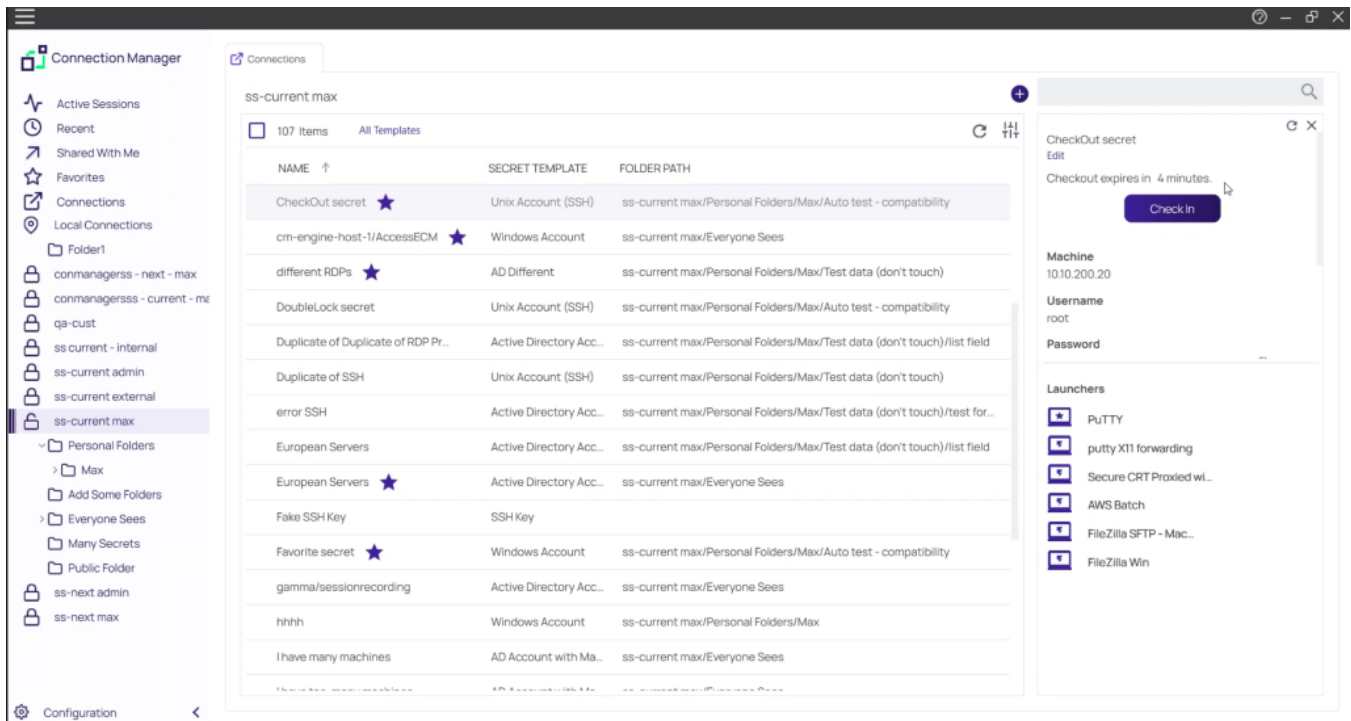
Secrets with Workflows

The screenshot displays the Delinea Connection Manager interface. On the left is a navigation sidebar with options like Active Sessions, Recent, Shared With Me, Favorites, Configuration, Connections, Local Connections, and several Folder Items. The main area is titled 'Connections' and shows a list of 12 secrets. 'Secret 2' is selected and highlighted. A modal window on the right shows the details for 'Secret 2', which is currently locked (indicated by a padlock icon) and requires a checkout to view. A 'Check Out' button is visible in the modal.

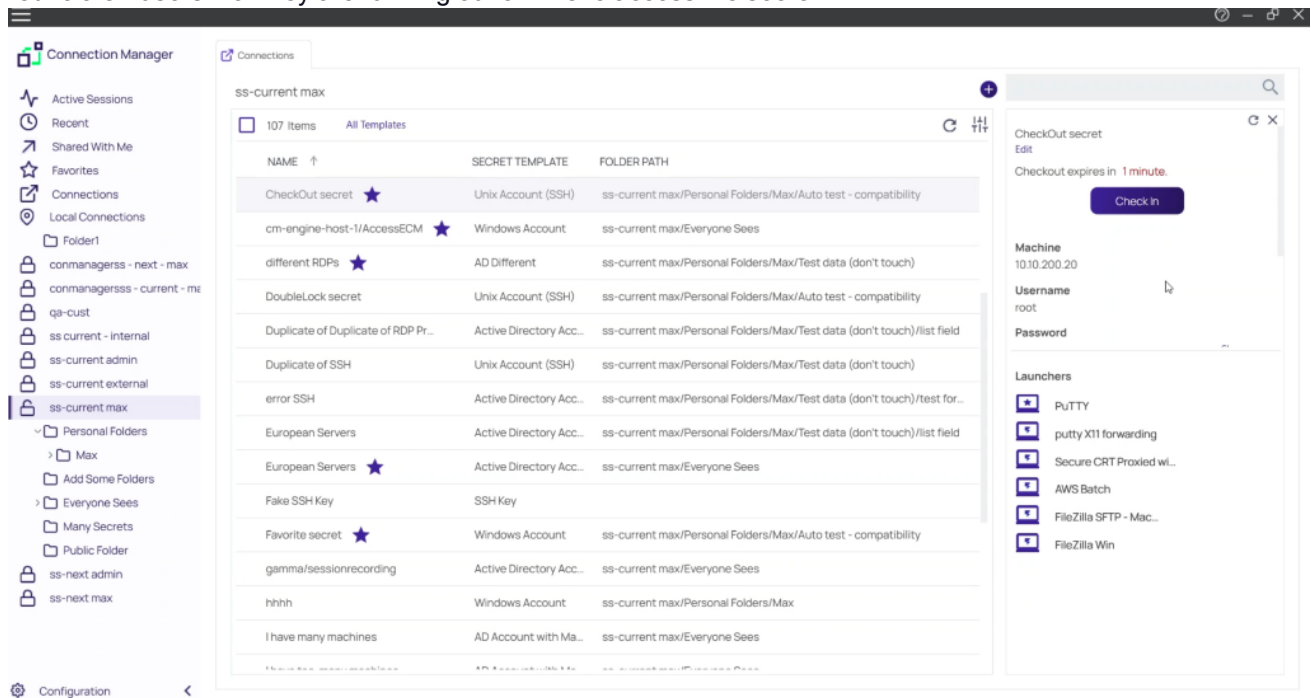
NAME ↑	TEMPLATE	FOLDER NAME
Secret 1 ★	Unix (SSH)	connmanagerss/Personal
<input type="checkbox"/> Secret 2	Active Directory Account	connmanagerss/Personal
Secret 3	Unix (SSH)	connmanagerss/Personal
Secret 4 ★	Active Directory Account	connmanagerss/Personal
Secret 5	Windows Account	connmanagerss/Personal
Secret 6	Active Directory Account	connmanagerss/Personal
Secret 7 ★	Active Directory Account	connmanagerss/Personal
Secret 8 ★	Windows Account	connmanagerss/Personal
Secret 9	Unix (SSH)	connmanagerss/Personal
Secret 10	Active Directory Account	connmanagerss/Personal
Secret 11	Windows Account	connmanagerss/Personal
Secret 12	Active Directory Account	connmanagerss/Personal

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.

Secrets with Workflows

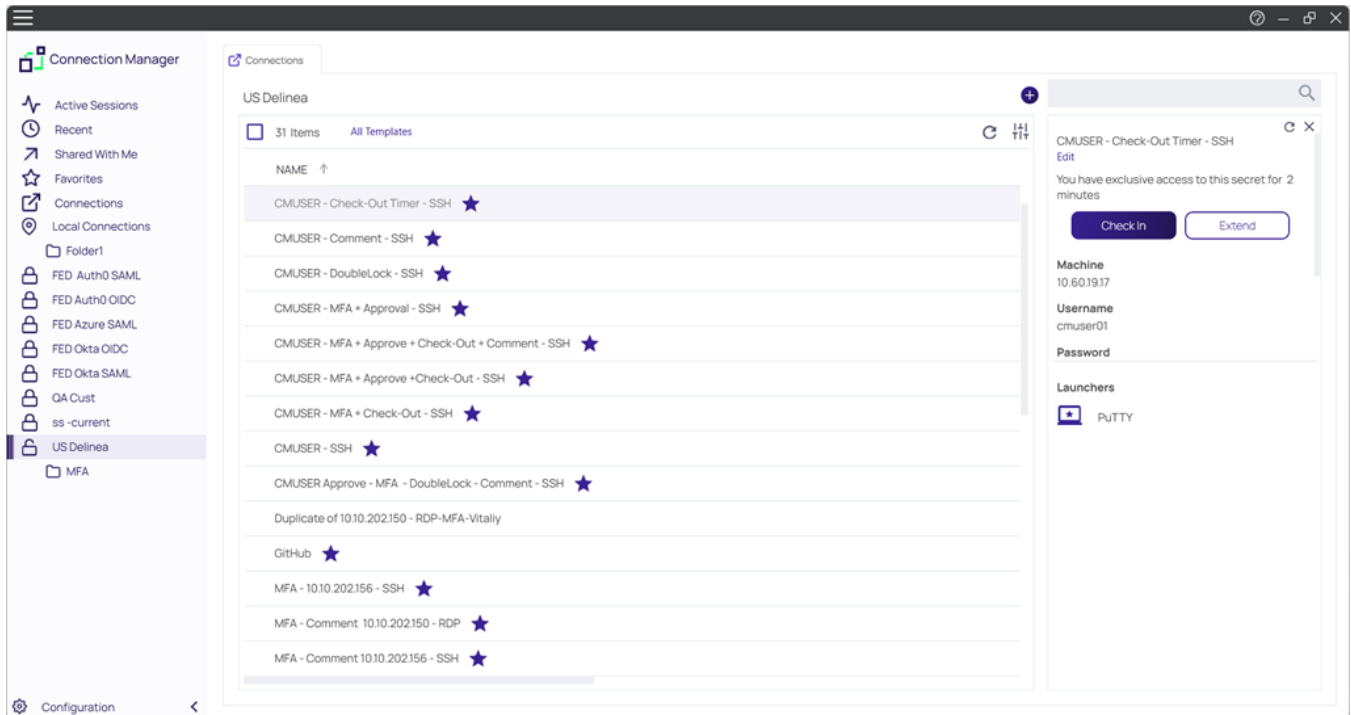


- When the time remaining with the secret falls below the threshold set in Secret Server, the timer color will turn red to alert users that they are running out of time to access the secret.

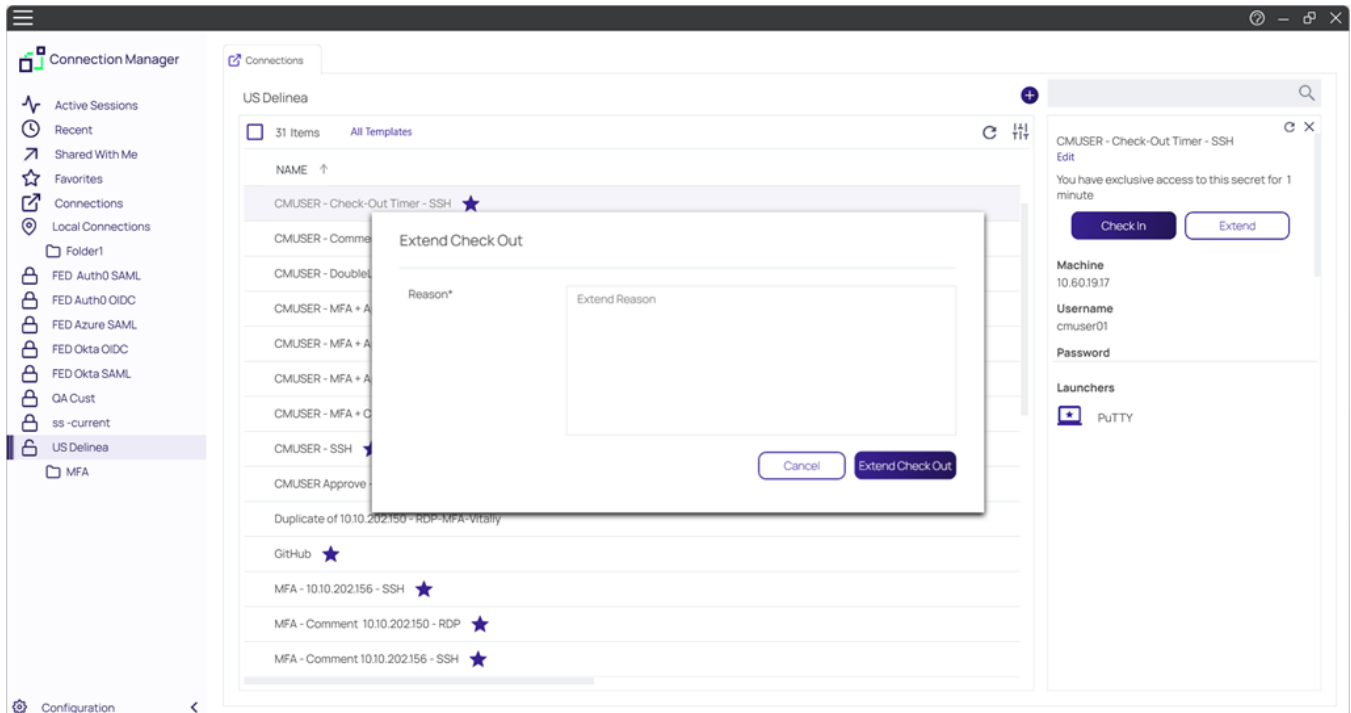


- Users can extend the secret check out timer by clicking **Extend**. (Optional)


Secrets with Workflows

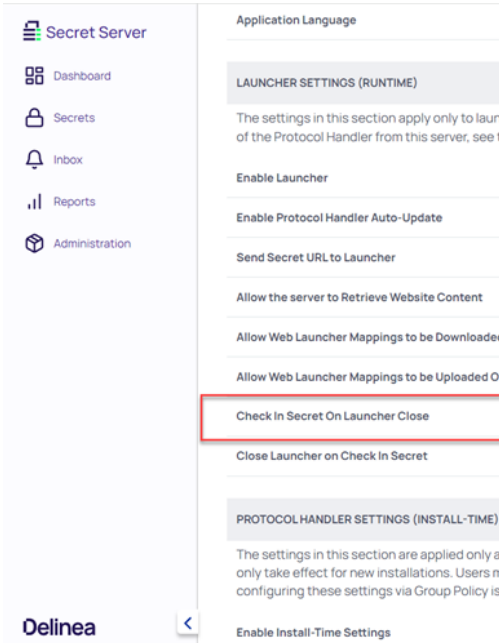


Users must enter a reason for extending the secret check out time



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



prevent this from occurring, please adjust the relevant setting in Secret Server.

Troubleshooting

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

- [General](#)
- ["CM Crashing When Offline and Checking Certificates" on page 157](#)
- [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

MacOS Log File Location

~/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.

```
</configSections>
<appSettings>
  <add key="UpdateOnStartup" value="true" />
</appSettings>
<log4net>
  <root>
    <level value="INFO" />
    <appender-ref ref="LogFileAppender" />
    <appender-ref ref="TraceAppender" />
  </root>
```

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>
```

Troubleshooting

After:

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

Advanced Log Entries

Setting the log level to TRACE will enable 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:

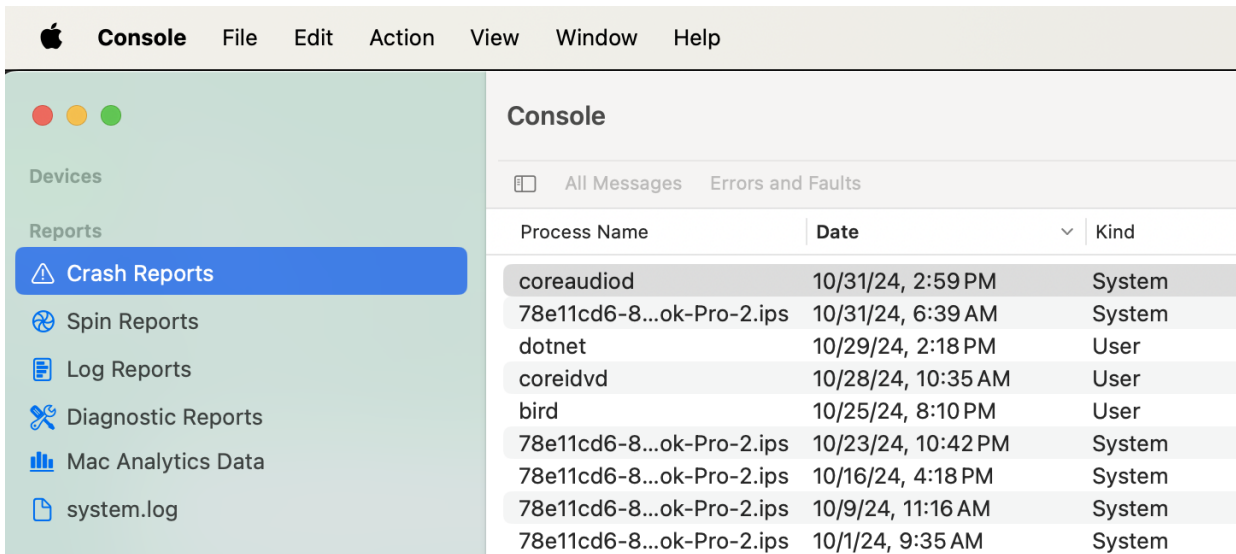
1. Check the crash reports from installer app:
 - a. Open the Console app
 - b. Select *Crash Reports* on the right
 - c. Check if there are any crash reports for the installer process

If there are installer crash reports:

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

Troubleshooting

c. Send as a crash report file



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 81.

 **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 81.

Custom Settings |

While the "Application Configuration File" on page 126 must be readjusted for each version change, "User Configuration File for Windows" on page 130 can 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:

Troubleshooting

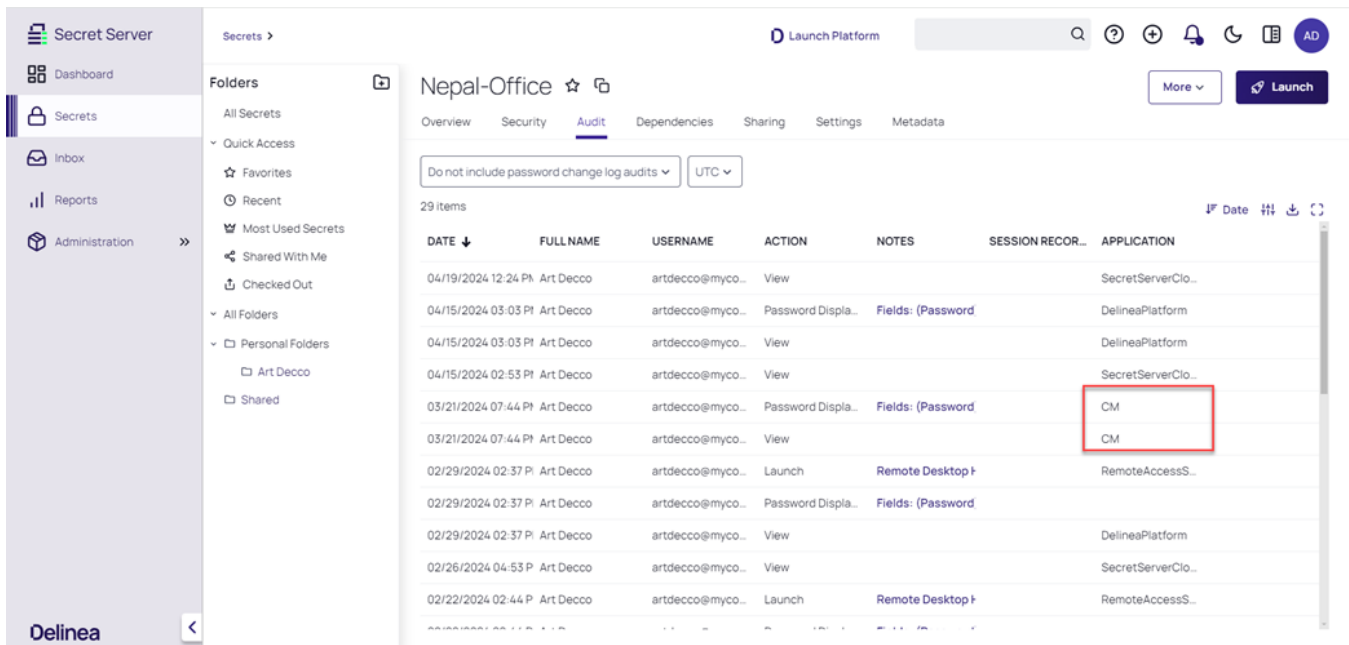
```
plist '/Users/$USER/Library/Preferences/com.Delinea.ConnectionManager.plist'
```

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".



The screenshot shows the Secret Server interface with the Audit Log for the 'Nepal-Office' secret. The table displays 29 items with columns for DATE, FULLNAME, USERNAME, ACTION, NOTES, SESSION RECORD, and APPLICATION. Two rows are highlighted with a red box, indicating 'CM' in the Application column.

DATE	FULLNAME	USERNAME	ACTION	NOTES	SESSION RECORD	APPLICATION
04/19/2024 12:24 PM	Art Decco	artdecco@myco...	View			SecretServerClo...
04/15/2024 03:03 PM	Art Decco	artdecco@myco...	Password Displa...	Fields: (Password		DelineaPlatform
04/15/2024 03:03 PM	Art Decco	artdecco@myco...	View			DelineaPlatform
04/15/2024 02:53 PM	Art Decco	artdecco@myco...	View			SecretServerClo...
03/21/2024 07:44 PM	Art Decco	artdecco@myco...	Password Displa...	Fields: (Password		CM
03/21/2024 07:44 PM	Art Decco	artdecco@myco...	View			CM
02/29/2024 02:37 PM	Art Decco	artdecco@myco...	Launch	Remote Desktop		RemoteAccessS...
02/29/2024 02:37 PM	Art Decco	artdecco@myco...	Password Displa...	Fields: (Password		
02/29/2024 02:37 PM	Art Decco	artdecco@myco...	View			DelineaPlatform
02/26/2024 04:53 P	Art Decco	artdecco@myco...	View			SecretServerClo...
02/22/2024 02:44 P	Art Decco	artdecco@myco...	Launch	Remote Desktop		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:

Troubleshooting

- **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.

The screenshot shows the 'Application' settings page in the Delia Platform. The left sidebar contains navigation icons for Home, Secrets, Discovery, Reports, Access, and Inbox. The main content area is titled 'Application' and has an 'Edit' button in the top right. The settings are listed in a table:

Setting	Value
Send anonymized system metrics to Delinea	Yes
Anonymized system metrics information	View metric data
Enable webservices	Yes
View webservices	View webservices
Maximum Time for Offline Access on Mobile Devices (days)	30
Maximum Time for Offline Access on Mobile Devices (hours)	0
Maximum Time Offline Explanation	Maximum Time Offline Explanation
Session timeout for webservices	Yes
Session timeout for webservices (days)	0
Session timeout for webservices (hours)	0
Session timeout for webservices (minutes)	20
Enable refresh tokens for webservices	Yes
Maximum token refreshes allowed	3
Prevent direct API authentication	No
Enable Syslog/CEF Log Output	No
Syslog/CEF Logging Advanced Settings Information	Syslog/CEF Logging Advanced Settings Information
Syslog/CEF DateTime Format	ISO 8601
WinRM Endpoint URL	http://localhost:5985/wsman
Test PowerShell with WinRM	Test PowerShell with WinRM

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

The screenshot shows the 'Default Policy' page under 'Administration > User Management > Identity Policies'. The left sidebar contains navigation icons for Home, Secret Server, Inventory, Insights, Policies, Access, Marketplace, and Inbox. The main content area is titled 'Default Policy' and has a 'Delete Policy' button in the top right. The 'Authentication Rules' section is visible, with a table showing one rule:

RULE NAME	AUTHENTICATION PROFILE
1 Identity cookie is not present	Default New Device Login Pr...

Below the 'Authentication Rules' section is the 'Browser Session Parameters' section, which is highlighted with a red box. It contains the following settings:

Setting	Value
User idle timeout (Minutes)	60
Time until an idle user session expires. 1 minute to 60 minutes	
Keep me logged in	<input checked="" type="checkbox"/> Allow the 'Keep me logged in' checkbox option at login (session spans browser sessions)
Session length (Hours)	2
Time until the user must re-authenticate. 1 hour to 24 hours	

Below the 'Browser Session Parameters' section is the 'Delinea Mobile Application Session Parameters' section, which contains the following setting:

Setting	Value
Session length (Days)	14
Time until the user must re-authenticate. 1 day to 90 days	

Troubleshooting

To learn more about Connection Manager's Auto Reauthenticate parameter, please see "Enabling/Disabling Auto Reauthenticate " on page 127.

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.

Admin > Secret templates > Unix Account (SSH) > Fields >



Machine

Template field status

Edit

Deactivating template fields will prevent them from appearing on the template, and will remove them from any secret currently using this template.

Active Yes

Template field details

Edit

Configure the details of this template field.

Field name	Machine
Field slug name	machine
Description	The Server or Location of the Unix Machine.
Type	Text
Is Required	Yes
All history	Yes
Searchable	Yes
Edit requires	Edit
Viewing requires edit	No
Expose for display	Yes
Dropdown options	None

The Machine field is now visible:

Connections

Delinea Platform

2 Items All Templates

NAME ↑	MACHINE
cm-nix-target	111.111.111.111
cm-win-target	222.222.222.222


 **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,keyboard-interactive,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 126 for more information)
2. Add the following parameter after the *ScreenShotQueueLimit* parameter:

```
<setting name="AdjustableScreenshotIntervalList" serializeAs="String">
  <value>application name.exe</value>
</setting>
```

 **Note:** The application name needs to be the same as in the MECM or SCVMM launcher. If you are using two or more applications, you need to write the application names separated by commas, as shown in the example below:

```
<setting name="AdjustableScreenshotIntervalList" serializeAs="String">
  <value>application name1.exe, application name2.exe </value>
</setting>
```

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 "Application Configuration File" on page 126 for more information.

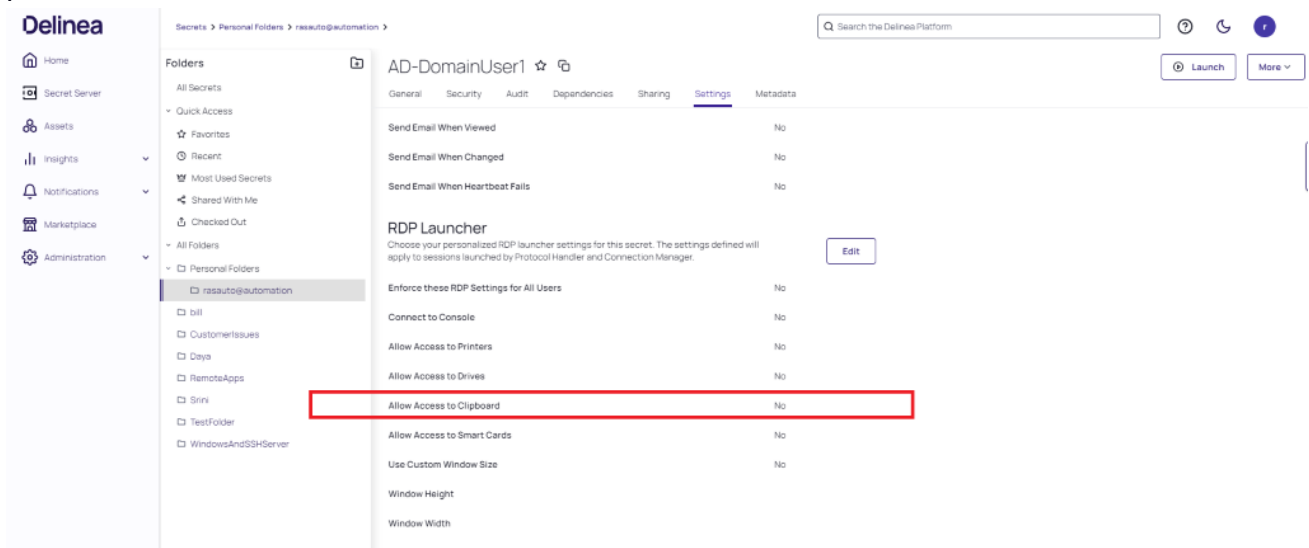
Troubleshooting Proxies


To troubleshoot issues with proxies, start by [Enabling Debug Mode in the DE Log Files](#) 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 clipboard access is enabled on the secret



 **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 Settings

Initial Size

Auto-fill This option will trigger an automatic reconnect event when the window is resized.

Color Depth

Run As Admin

Local Devices Select resources to use in remote session:

<input type="checkbox"/> Printer	<input type="checkbox"/> Drives	Specify Drives..
<input checked="" type="checkbox"/> Clipboard	<input type="checkbox"/> Smart Cards	

Windows Shortcuts


Audio Playback

Audio Recording

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`.

Troubleshooting

 **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 AVBlocks 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, [An Automatic Updater of 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 Add-on 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

- "2.5.4 Release Notes" on page 163
- "2.5.3 Release Notes" on page 164
- "2.5.2 Release Notes " on page 165
- "2.5.1 Release Notes (Windows Only)" on page 166
- "2.5.0 Release Notes" on page 166
- "2.4.0 Release Notes " on page 168
- "2.3.1 Release Notes " on page 169
- "2.3.0 Release Notes " on page 169
- "2.2.0 Release Notes" on page 170
- "2.1.0 Release Notes" on page 171
- "2.0.1 Release Notes" on page 172
- [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 163

October 2024

- 2.5.3 Release Notes, refer to "2.5.3 Release Notes" on page 164

Release Notes

July 2024

- 2.5.2 Release Notes, refer to "2.5.2 Release Notes " on page 165

April 2024

- 2.5.1 Release Notes, refer to "2.5.1 Release Notes (Windows Only)" on page 166
- 2.5.0 Release Notes, refer to "2.5.0 Release Notes" on page 166

January 2024

- 2.4.0 Release Notes, refer to "2.4.0 Release Notes " on page 168

November 2023

- 2.3.1 Release Notes, refer to "2.3.1 Release Notes " on page 169
- 2.3.0 Release Notes, refer to "2.3.0 Release Notes " on page 169

September 2023

- 2.2.0 Release Notes, refer to "2.2.0 Release Notes" on page 170

August 2023

- 2.1.0 Release Notes, refer to "2.1.0 Release Notes" on page 171

July 2023

- 2.0.1 release notes, refer to [Release Notes](#)

May 2023

- 2.0.0 release notes, refer to [Release Notes](#)

April 2023

- 1.9.7 release notes, refer to [Release Notes](#)
- 1.9.6 release notes, refer to [Release Notes](#)

January 2023

- 1.9.5 release, refer to [Release Notes](#)

September 2022

- 1.9.2 release, refer to [Release Notes](#)

April 2022

- 1.8.0 release, refer to [Release Notes](#) 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 [Release Notes](#) for details.
- 1.7.0 release, refer to [Release Notes](#) for details.
- Added section, [Using SSH Session Groups](#)
- Added more command line arguments to the [documentation](#) 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 [documentation](#) identifying default folders for macOS.
- Updated and clarified content in the [documentation](#) on Global Configuration options and their related behaviors.

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 43 for more information.
- Connection Manager now makes it easier for users to troubleshoot distributed engine connection issues. See "Troubleshooting Proxies" on page 154 for more information.
- The Screenshot Queue Limit error message has been updated for improved clarity. See "Setting the Screenshot Queue Limit" on page 128 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 129 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]

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 129 for more information.

Fixed Issues

- Fixed an issue where Connection Manager was not saving the color settings for the terminal under Advanced Settings.

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

 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 to Secret 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 128 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 112 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 148

Bug Fixes

- Fixed an issue where Connection Manager displayed 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`.

Release Notes

-  **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 double-clicking on secrets.
- Fixed an issue where an error message was displayed in Delinea.app tenant's log files.

Release Notes

- 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)

Release Notes

- 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.

Bug Fixes

- 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.

Release Notes

- 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

Release Notes

- 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.

Release Notes

- 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.

Bug Fixes

- 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

Bug Fixes

- 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.

Bug Fixes

- 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 were 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 to 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 [documentation](#) 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 [documentation](#) identifying default folders for macOS.
- We updated and clarified the content in the Connection Manager [documentation](#) 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.

Release Notes

- 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 generate a token when the URL for a web login ends on a /.