Introduction

This document is to act as a home for all custom launchers created for customer requirements.

Audience

Professional Services Engineers, Sales Engineers, and support staff can utilize this document.

Goals/Purpose

The main goal of this document is to make it easier on the lives of employees by having a centralized document for all customized launchers. Rather than creating something new for each engagement or situation, this document can be referenced prior to creating something new.

Note: Please include a screenshot of both the **launcher**, **secret template**, and **configure launcher** associated with each. Additionally, make sure that the text of the commands is included, so people don't have to transcribe from a screenshot.

Custom Launchers

Delinea

Dameware

Please note that in recent versions of Dameware Mini Remote Control it has been observed that passing through the password does not work correctly.
In Secret Server go to Admin > Secret Templates > Configure Launchers

1. Create a new Launcher called "Dameware"
    a. Under the Process name, specify: C:\Program Files (x86)\SolarWinds\DameWare Remote Support\DWRCC.exe
    b. Under the Process arguments, specify: -c: -h: -a:2 -m:$MACHINE -u:$USERNAME -p:$PASSWORD -d:$DOMAIN
    c. Create a new template with these parameters and associate the new launcher to the template.

Delinea

Launcher

GENERAL SETTINGS

Launcher Name	Dameware
Active	Yes
Additional Prompt Field Name	Machine
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	No

WINDOWS SETTINGS

Process Name	C:\Program Files (x86)\SolarWinds\DameWare Remote Support\DWRCC.exe
How do I configure process arguments?	
Process Arguments	-c: -h: -a:2 -m:$MACHINE -u:$USERNAME -p:$PASSWORD -d:$DOMAIN
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Secret Template Designer

SETTINGS

Secret Template Name	Dameware Template
Secret Template Icon	
Active?	✔
Expiration Enabled?	✔
Expiration Days	30
Expiration Field	Password
Validate Password Requirements On Create?	⊖
Validate Password Requirements On Edit?	⊖
Field Displayed on Basic Home	Folder Name
One Time Password Enabled	No

☑ Edit

FIELDS

FIELD NAME	FIELD SLUG NAME	DESCRIPTION	TYPE	IS REQUIRED	HISTORY	SEARCHABLE	EDIT REQUIRES	VIEWING REQUIRES EDIT	EXPOSE FOR DISPLAY	
Domain	domain	The Server or Location of the Active Directory Domain.	Text	⊖	All	✔	Edit	⊖	⊖	🗑☑➊➊☰
Username	username	The Domain Username.	Text	✔	All	✔	Edit	⊖	⊖	🗑☑➊➊☰
Password	password	The password of the Domain User.	Password	✔	All	⊖	Edit	⊖	⊖	🗑☑➊➊☰
Notes	notes	Any additional notes.	Notes	⊖	All	✔	Edit	⊖	⊖	🗑☑➊➊☰
*	*		Text ▾	☐	☐ ☑All	☐	Edit ▾	☐	☐	➕

For process name, this may change depending on environment. For running the process locally, adjust the process name to reflect the local installation of DWRCC.exe. For running it remotely, make sure the account the secret is using with "run process as secret credentials" selected, has the permissions necessary on the destination server to execute the remote process. This will also require that the system in which you are trying to access from has SMB access to the destination server. If "Run Process as Secret Credentials" is not checked, then it will try to access the destination using the credentials currently logged on to windows to try to access the remote executable. In the screenshot above, I have the

launcher configured to prompt for an individual computer to connect to, however you can adjust this if you want to create secrets that launch to a specific system.

If connecting Dameware through a central server, the launcher should look like this:

Launcher

General Settings

Launcher Name	Dameware
Active	Yes
Additional Prompt Field Name	Machine
Launcher Image	

Windows Settings

Process Name	C:\Program Files (x86)\SolarWinds\DameWare Remote Support\DWRCC.exe
How do I configure process arguments?	
Process Arguments	-bh:$bh -bpn:$bpn -bu:$bu -bps:$bps -c: -h: -a:1 -m:$MACHINE -u:$USERNAME -p:$PASSWORD -d:$DOMAIN
Run Process As Secret Credentials	Yes
Load User Profile	No
Use Operating System Shell	No

You will need to add additional fields to your template for the new variables. Then fill out the information in the secret accordingly. By default, Dameware centralized server uses user/user for its credentials but any fields could be supplied if an admin has changed them. It would just need updated in the secret itself.

Fields

Field Name	Field Description	Field Type	Is Required?	History	Searchable	Edit Requires	Hide On View	Expose For Display	
Domain	Server or Location of AD Domain	Text	✔	All	✔	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
Username	The Domain Username	Text	✔	All	✔	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
Password	The password of the domain user	Password	✔	All	⊖	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
Notes	Any additional notes	Notes	⊖	All	✔	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
BH	Central Server Host Address	Text	✔	All	⊖	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
BPN	Central Server Porn Number	Text	✔	All	⊖	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
BU	Central Server User	Text	✔	All	⊖	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
BPS	Central Server Password	Password	✔	All	⊖	Edit	⊖	⊖	🗑 ✏ ⬆ ⬇
* [ ]	[ ]	Text ▾	☐	☐ ☑ All	☐	Edit ▾	☐	☐	➕

Delinea

General	Personalize	Expiration	Launcher	Security

Secret Name		DameWare Test Launch
Domain		pslab.com
Username		tyler.croak-p
Password		**********
Notes		Notes
BH		srv-us-dmw
BPN		6133
BU		user
BPS		**********
Status		Active
Folder		\PSLab\Systems

Delinea

MMC Snap-in: Active Directory Users and Computers

Note: This launcher will work for any snap-in; using AD as an example here.

General Settings

Launcher Name   ADUC Launcher
Active   Yes
Launcher Image

Windows Settings

Process Name   powershell.exe
How do I configure process arguments?
Process Arguments   -noprofile -executionpolicy bypass -windowstyle hidden -command cmd.exe -workingdirectory $PSHOME -credential $USERNAME\$PASSWORD -ArgumentList "/c dsa.msc"
Run Process As Secret Credentials Yes
Load User Profile   No
Use Operating System Shell   No

Powershell.exe

-noprofile -executionpolicy bypass -windowstyle hidden -command cmd.exe -workingdirectory $PSHOME -credential $USERNAME\$PASSWORD -ArgumentList "/c dsa.msc"

Fields

Field Name	Field Description	Field Type	Is Required?	History	Searchable	Edit Requires	Hide On View	Expose For Display	
Domain	The Server or Location of the Active Directory Domain.	Text	✔	All	✔	Edit	⊖	⊖	🗑✎⬆⬇
Username	The Domain Username.	Text	✔	All	✔	Edit	⊖	⊖	🗑✎⬆⬇
Password	The password of the Domain User.	Password	✔	All	⊖	Edit	⊖	⊖	🗑✎⬆⬇
Notes	Any additional notes.	Notes	⊖	All	✔	Edit	⊖	⊖	🗑✎⬆⬇
PSHOME	Powershell Home Directory	Text	✔	All	⊖	Edit	⊖	⊖	🗑✎⬆⬇

Secret Template Edit Launcher Configuration

Launcher Type to use ADUC Launcher

Domain Domain
Password Password
Username Username

[Edit] [Delete]

[Back] [Add New Launcher]

The PSHOME field has the directory PowerShell is currently running from. This can vary depending on each environment. Instead of manually putting it into a field, you could include it if it is the same on all systems utilizing the launcher within the process arguments itself.

MMC Snap-in: Active Directory Users and Computers (revised)

Process Name:

powershell.exe

Process Arguments:

-Command "dsa.msc"

Launcher

GENERAL SETTINGS

Launcher Name	MMC Snap-in: Active Directory Users and Computers
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	Yes
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	powershell.exe
How do I configure process arguments?	
Process Arguments	-Command "dsa.msc"
Run Process As Secret Credentials	Yes
Load User Profile	No
Use Operating System Shell	No

MAC SETTINGS

Process Name	
How do I configure Mac process name and arguments?	
Process Arguments	

Back   Edit   View Audit

Delinea

Launcher Type to use MMC Snap-in: Active Directory Users and Computers

Domain   Domain
Password Password
Username Username

[✎ Edit]   [🗑 Delete]

[↩ Back]   [+ Add New Launcher]

Delinea

Mapped Drives

NetUse MapDrive1 with letter

NetUse MapDrive2

NetUse MapDrive1 with letter PS

PowerShell

General Settings

Launcher Name	NetUse MapDrive1 with letter PS
Active	Yes
Additional Prompt Field Name	Path
Launcher Image	

Windows Settings

Process Name	powershell
How do I configure process arguments?	
Process Arguments	net use r: '$PATH' /user:'$DOMAIN\$USERNAME' '$PASSWORD' /p:no
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Mac Settings

Process Name	
How do I configure process arguments?	
Process Arguments	

Note: the single quotes should be removed when migrating this to github. Single quotes as screenshot above cause the launcher to not work

Ensure single quotes removed and then below -

Wrap custom parameters with quotation marks   Y

                                                          e

                                                          s

" is checked

Batch File

NETUSE.BAT

net use m: %1 /user:%2\%3 %4 /p:no

pause

General Settings

Launcher Name	NetUse MapDrive1 with letter
Active	Yes
Additional Prompt Field Name	Path
Launcher Image	

Windows Settings

Batch File	⬇ netuse.bat
How do I configure process arguments?	
Process Arguments	$PATH $DOMAIN $USERNAME $PASSWORD
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Mac Settings

Shell Script	< None >
How do I configure process arguments?	
Process Arguments	

Delinea

NETUSE2.BAT

net use o: "%1" "%4" /user:"%2\%3" /p:no

pause

Use this one but alter .bat to be:

net use m: %1 %4 /user:%2\%3 /p:no

pause

Working Screenshot:

GENERAL SETTINGS

Launcher Name	NetUse MapDrive With Letter
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Batch File	netuse.bat

How do I configure process arguments?

Process Arguments	$PATH $DOMAIN $USERNAME "$PASSWORD"
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

LDP

From an argument directory based on roaming profile

%localappdata%

General Settings

Launcher Name	ldp.exe %localappdata% test
Active	Yes
Launcher Image	

Windows Settings

Process Name	cmd

How do I configure process arguments?

Process Arguments	/c %localappdata%\test\ldp.exe
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	Yes

GENERAL SETTINGS

Launcher Name	LDP Launcher
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	cmd

How do I configure process arguments?

Process Arguments	/c "C:\Windows\System32\ldp.exe"
Run Process As Secret Credentials	Yes
Load User Profile	No
Use Operating System Shell	No

Delinea

FileZilla

General Settings

Launcher Name FileZilla

Active Yes

Launcher Image

Windows Settings

Process Name filezilla.exe

How do I configure process arguments?

Process Arguments "sftp://$Username:$Password@$Host"

Run Process As Secret Credentials No

Load User Profile No

Use Operating System Shell No

Mac Settings

Process Name

How do I configure process arguments?

Process Arguments

Delinea

Updated FileZilla Launcher for GitHub (2/10/2021)

Launcher

GENERAL SETTINGS

Launcher Name	FileZilla Launcher
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	C:\Program Files\FileZilla FTP Client\filezilla.exe
How do I configure process arguments?	
Process Arguments	"sftp://$username:$password@$host"
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Delinea

WinSCP

General Settings

Launcher Name WinSCP private key

Active Yes

Launcher Image

Windows Settings

Process Name "C:\Program Files (x86)\WinSCP\WinSCP.exe"

How do I configure process arguments?

Process Arguments scp://"$USERNAME"@$MACHINE /privatekey="$PRIVATE KEY" /log="C:\Users\administrator.TESTDOMAIN\Desktop\winscp2.log"

Use Operating System Shell No

Mac Settings

Process Name

How do I configure process arguments?

Process Arguments

Delinea

SQL Server Management Studio

Domain Account

I found that you need to enable the 'Load User Profile' option – particularly important if the user in question has never logged on to your machine.

General Settings

Launcher Name   SQL Server Launcher Domain User
Active   Yes
Launcher Image

Windows Settings

Process Name   C:\Program Files (x86)\Microsoft SQL Server\130\Tools\Binn\ManagementStudio\Ssms.exe
How do I configure process arguments?
Process Arguments   -E
Run Process As Secret Credentials   Yes
Load User Profile   No
Use Operating System Shell   No

Mac Settings

Process Name
How do I configure process arguments?
Process Arguments

GENERAL SETTINGS

Launcher Name   SQL Domain User Launcher
Active   Yes
Launcher Image

Wrap custom parameters with quotation marks No
Record Multiple Windows   Yes
Record Additional Processes   < None >

WINDOWS SETTINGS

Process Name   "C:\Program Files (x86)\Microsoft SQL Server Management Studio 18\Common7\IDE\ssms.exe"
How do I configure process arguments?
Process Arguments   -E -S $server\$instance
Run Process As Secret Credentials   No
Load User Profile   No
Use Operating System Shell   No

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Domain Account Alternative

Arguments: -E -S $User Input,$Port

If you are connecting to instances that have different ports for the same Windows account, then you will need to include the port in the user input string. Probably best to use this with a whitelist so you get a dropdown of SQL servers to connect to for a given Windows account.

Local User

General Settings

Launcher Name	SQL Server Launcher Local User
Active	Yes
Additional Prompt Field Name	Server
Launcher Image	

Microsoft® SQL Server

Windows Settings

Process Name	Ssms.exe
How do I configure process arguments?	
Process Arguments	-S $Server -U $Username -P $Password
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Delinea

VNC Viewer

General Settings

Launcher Name	VNC
Active	Yes
Launcher Image	

Windows Settings

Process Name	C:\Program Files (x86)\UltraVNC\vncviewer.exe
How do I configure process arguments?	
Process Arguments	/user $USERNAME /password $PASSWORD -connect $MACHINE
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Mac Settings

Process Name

How do I configure process arguments?

Process Arguments

Delinea

Launcher

GENERAL SETTINGS

Launcher Name	Ultra VNC Launcher
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	Yes
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	"C:\Program Files\uvnc bvba\UltraVNC\vncviewer.exe"
How do I configure process arguments?	
Process Arguments	/user $USERNAME /password $PASSWORD -connect $MACHINE
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Delinea

MobaXterm

SSH Password Authentication

- Admin – Secret Templates – Configure Launchers – New
- Give the launcher a name like 'MobaXterm SSH'
- Launcher Type: Process
- Process Name: C:\Program Files (x86)\Mobatek\MobaXterm\MobaXterm.exe (assuming MobaXterm is installed to default location. Adjust as necessary)
- Process Arguments: **-newtab "sshpass -p '$PASSWORD' ssh $USERNAME@$MACHINE"**
- **Note:** If the password contains a single quote, ' then the launcher will fail. A review of this launcher found that you now need to enclose the password in single quotes, as above. If there is a single quote in the password, it will cut off the password and cause the launcher to fail. The workaround is to remove this character from the character set used in the password requirements for the template used.

All other settings can be left as default. As discussed, here is how to configure the two MobaXterm launchers. The first is for SSH username/password accounts, the second is for SSH keys. The second launcher is designed to work with SSH keys without a passphrase. If the keys do have a passphrase, it will need to be manually entered at this time.

General Settings

Launcher Name	z_MobaXTerm
Active	Yes
Launcher Image	

Windows Settings

Process Name	C:\Program Files (x86)\Mobatek\MobaXterm\MobaXterm.exe
How do I configure process arguments?	
Process Arguments	-newtab "sshpass -p $PASSWORD ssh $USERNAME@$MACHINE"
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

- Admin – Secret Templates – Unix Account (SSH) – Edit – Configure Launcher – Add New Launcher
- Launcher Type to use – select the launcher you just created
- Domain: Machine
- Password: Password

- Username: Username
- Save

Secret Template Edit Launcher Configuration

SSH Key Authentication

Create another launcher using the same process as before, with the following settings:

- Launcher Type: Batch File
- Batch File: Create a batch file with the following contents. Note that you can change the location where the key is downloaded, and at this time it is not purged. The key name is also hardcoded at this time, rather than being set by the secret. I can configure it to pull the actual name from the Secret if needed.

```
START PowerShell.exe -noprofile -executionpolicy bypass -windowstyle hidden -command "new-item -path c:\ -name "Key" -itemtype "directory";$SSURL='https://thycotic.spurs.local/secretserver/winauthwebservices/api/v1/secrets/';$URI=$SSURL+'%1';$API=$URI+'/fields/private-key';Invoke-RestMethod -Uri $API -UseDefaultCredentials -Method Get -ContentType "Application/json" -OutFile "c:\key\id_rsa" -force"

cd "c:\Program Files (x86)\Mobatek\MobaXterm\"

START MobaXterm.exe -newtab "ssh -i c:/tempss/id_rsa %2@%3"
```

Note that the batch file should only be 3 lines, with the second line being:

cd "c:\Program Files (x86)\Mobatek\MobaXterm\"

I used Notepad as Notepad++ added some undesired formatting.

- Process Arguments: $SECRETID $USERNAME $MACHINE
- User Operating System Shell: Yes
- Save

General Settings

Launcher Name	z_MobaXTerm SSH Key
Active	Yes
Launcher Image	

Windows Settings

Batch File	⬇ mobaxterm_sshkey.bat
How do I configure process arguments?	
Process Arguments	$SECRETID $USERNAME $MACHINE
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	Yes

- Associate the launcher with the Unix Account (SSH Key Rotation), or just the SSH key only template we created for the key-only Putty launcher. Follow the same process as in the first example.
    - o Domain: Machine
    - o Password: Private Key Passphrase (unused)
    - o Username: Username

Secret Template Edit Launcher Configuration

Launcher Type to use	z_MobaXTerm SSH Key ▾
Domain	Machine ▾ *
Password	Private Key Passphrase ▾ *
Username	Username ▾ *

- Finally, the template will need to have a field for the SecretID, as we had for the AWS key example. We should be able to remove this requirement at some point, it just requires some additional API calls. You can edit the template by going to Admin – Secret Templates and choosing the appropriate template, then click Edit. Make sure to add the field with the same name as in the process arguments, and do not make it required. Then populate the SecretID field in a test secret, referencing the SecretID from the URL when editing it.

SecureCRT w/LocalAppData

/c start %localappdata%\"VanDyke Software"\SecureCRT\SecureCRT.exe /NOSAVE /SSH2 $MACHINE /L $USERNAME /PASSWORD "$PASSWORD"

RD Tabs

Process Name:

   c:\program files\Avian Waves\RD Tabs\RDTabs.exe
Process Arguments:

START SERVER $Server /u:$USERNAME /p:$PASSWORD /d:UK

> If using a Windows Account Template change $SERVER to $MACHINE

> If using an AD Template need to add a field for SERVER or set as Restrict User Input

MMC To Run an MSC –

General Settings

Launcher Name	MMC - DSA
Active	Yes
Launcher Image	

Windows Settings

Process Name	MMC.EXE
How do I configure process arguments?	
Process Arguments	DSA.MSC
Run Process As Secret Credentials	Yes
Load User Profile	No
Use Operating System Shell	No

To connect to a remote computer use process arguments:

mmc c:\windows\system32\eventvwr.msc /computer:"computername"

Inbuilt* Putty Launcher + X11 Forwarding

Inbuilt* PuTTY Launcher + X11 Forwarding

(*The one that comes with the Protocol Handler)

This allows you to create a launcher that enables X11 Forwarding in PuTTY, which the built-in launcher does not enable by default. There are two options that you can choose from which require slight changes in the syntax:

1) Non-proxied, direct connection

Process Name: "C:\Program Files\Thycotic Software Ltd\Secret Server Protocol Handler\putty.exe"

Process Arguments: -ssh "$USERNAME"@"$MACHINE" -pw $PASSWORD -X

2) Proxied connection
Process Name: "C:\Program Files\Thycotic Software Ltd\Secret Server Protocol Handler\putty.exe"

Process Arguments: -ssh "$USERNAME"@"$HOST" -pw $PASSWORD -X

XMing X Server + Putty Launcher + X11 Forwarding + RDS (Multi user)

X11 fwd requires an instance of the x-server process (and a separate screen) for each user

Please install the launch_xming.ps1 into the C:\Tools folder.
GET FILE FROM ANDY!

Launcher

GENERAL SETTINGS

Launcher Name	SAP XMING X11 Fwd SSH non-proxied
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	Yes
Record Multiple Windows	Yes
Record Additional Processes	xming.exe

WINDOWS SETTINGS

Process Name	powershell.exe
How do I configure process arguments?	
Process Arguments	-file C:\tools\launch_xming.ps1 $MACHINE $USERNAME $PASSWORD
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

MAC SETTINGS

|	
Process Name	

Delinea

RDP Launcher With /RestrictedAdmin

If you have business reasons for exposing the password in Secret Server but would still like to ensure through group policy that users cannot reuse credentials on another system by utilizing RDP Restricted Admin Mode, you can follow the steps below. Please note that this method which utilizes RDP Restricted Admin mode is less secure as is with any custom launcher that may be passing through a $password variable, as the password can be exposed via Process Monitor or other tools. Please only consider using this method in situations where you would like to use RDP Restricted Admin mode in the enterprise, are accessing Secret Server web UI from a locked down jump host only, and have the credentials configured for password changing after each use. Since passwords albeit one-time-use can be exposed via process monitor using this method, lateral or non-lateral movement may be possible for an attacker if they get access to the jump system.

On the destination system:

Enable Restricted Admin mode in the registry:
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa
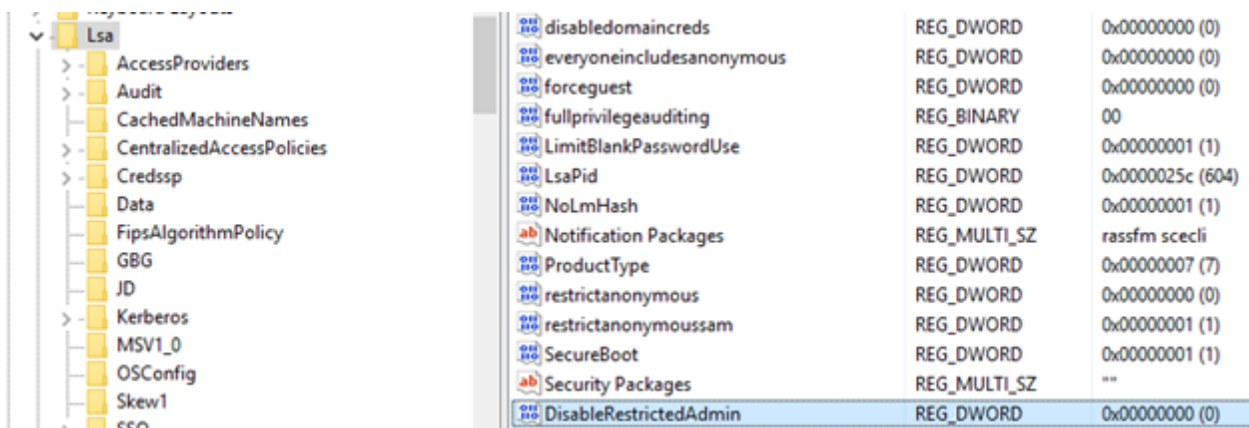
In Secret Server, a custom launcher can be created for utilizing Restricted Admin. Our built-in RDP launcher does not allow flexibility or customization of commands.

1. Create Launcher

PowerShell

cmdkey /generic:"$domain" /user:"$username" /pass:"$password"; Start-Process -FilePath

"C:\Windows\System32\mstsc.exe" -ArgumentList "/v:$domain"; Start-Sleep -s 30; cmdkey

/delete:$domain"

Windows Settings

Process Name	powershell
How do I configure process arguments?	
Process Arguments	cmdkey /generic:"$domain" /user:"$username" /pass:"$password"; Start-Process -FilePath "C:\Windows\System32\mstsc.exe" -ArgumentList "/v:$domain", "/restrictedAdmin"; Start-Sleep -s 30; cmdkey /delete:$domain
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

a) This creates credentials using values stored on the Secret itself into variables that can be used for running PowerShell. The first command creates credentials in Windows Credential Manager

b) The second command launches RDP, utilizes the entry for the system, and passes through the credentials stored in Windows Credential Manager.

c) The next command puts PowerShell to sleep for 30 seconds, allowing you that time to accept the RDP connection.

d) The last command deletes the credentials from Windows Credential manager

2. Associate Launcher with Template.

Launcher Type to use Restricted RDP

Domain Machine
Password Password
Username Username

[Edit] [Delete]

[Back] [Add New Launcher]

Since restrictedAdmin mode requires Administrator rights on the system, it made sense to associate this launcher with the Windows Account template launcher.

In Secret Server's Advanced Configuration URL, we set:

RDP Launcher Use Computer Name for Domain   True

Note: This should be enabled by default.

Delinea

ZOC

ZOC.EXE

/SSH:$USERNAME:$PASSWORD@$MACHINE

WINDOWS SETTINGS

Process Name	"C:\Program Files\ZOC7\zoc.exe"
How do I configure process arguments?	
Process Arguments	/SSH:$USERNAME:$PASSWORD@$MACHINE

New Launcher (2/10/2021) – Move To Github

Delinea

GENERAL SETTINGS

Launcher Name	ZOC Template
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	"C:\Program Files\ZOC8\ZOC.exe"

How do I configure process arguments?

Process Arguments	/SSH:$USERNAME:$PASSWORD@$MACHINE
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Be mindful that the password field cannot contain @ or password will get truncated. ZOC may not allow other special characters.

Delinea

ACS IBM Java Launcher for iSeries

```
cls

@echo off

Set home=C:\Users\Public\IBM\ClientSolutions\

 java -Xmx1024m -jar %home%\acsbundle.jar /PLUGIN=CFG /SYSTEM=$MACHINE /USERID=$USERNAME /R

java -Xmx1024m -jar %home%\acsbundle.jar /PLUGIN=logon /SYSTEM=$MACHINE /USERID=$USERNAME /PASSWORD=$PASSWORD

java -Xmx1024m -jar %home%\acsbundle.jar /PLUGIN=5250 /SYSTEM=$MACHINE /sso=1
```

Delinea

RemoteApp

Local application custom launchers rely on the application being installed locally. Using the standard RDP launcher, it's possible to connect to an endpoint and then manually launch an application, but it's inconvenient. This launcher starts an RDP session, but changes the shell to launch a specific, pre-approved application.

Notes:

- Remote application must be pre-approved. This can be done via a registry change on the remote endpoint.
- Assumes c:\temp exists. Script could be amended to check for and create this.
- Example is for a single application. It could be configured to accept a variable from a Secret or even user input.

Approve Application

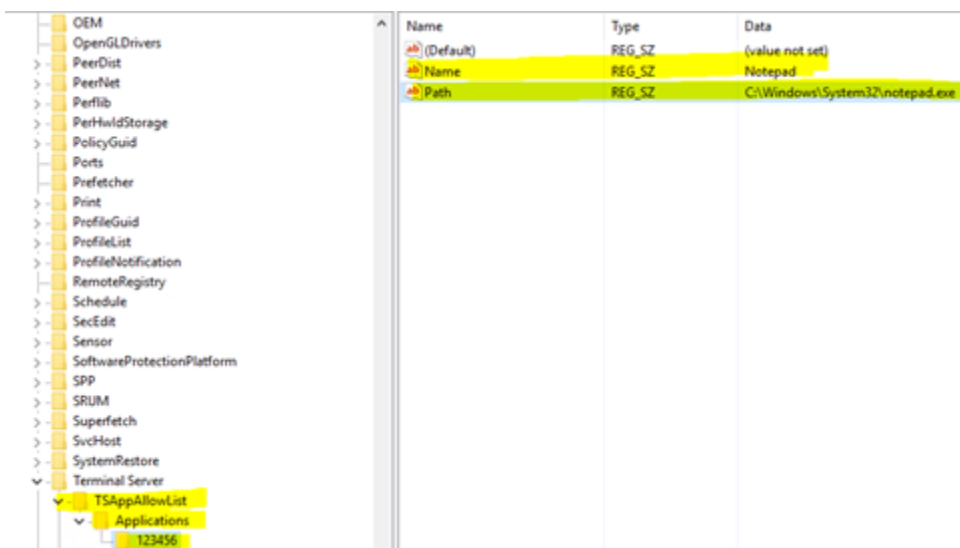Taken from [here](#)

1. Locate to this entry:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Terminal Server\TSAppAllowList

2. Navigate to **fDisabledAllowList** value, set it to "1".

3. Add anew key under TSAppAllowList, named **Applications**.

4. Add new key under Applications, named anything you want (here is "123456").

5. Create two new String Values for "123456", named "**Name**" and "**Path**". Their values are as below:

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Script

```
echo off
(
echo;remoteapplicationmode:i:1
echo;remoteapplicationprogram:s:notepad
echo;disableremoteappcapscheck:i:1
) > "c:\temp\test1.rdp"
cmdkey /delete:%1 >NUL
cmdkey /generic:%1 /user:%1\%2 /pass:"%3" >NUL
mstsc "c:\temp\test1.rdp" /v:%1
timeout /t 3 >NUL
cmdkey /delete:%1 > NUL
del "c:\temp\test1.rdp"
```

- Lines 1-6 create the RDP file that sets it as a RemoteApp connection
- Line 7 removes any old credentials
- Line 8 creates a new credential in Windows from the Secret
- Line 9 launches the session
- Line 10 adds a pause whilst the session launches
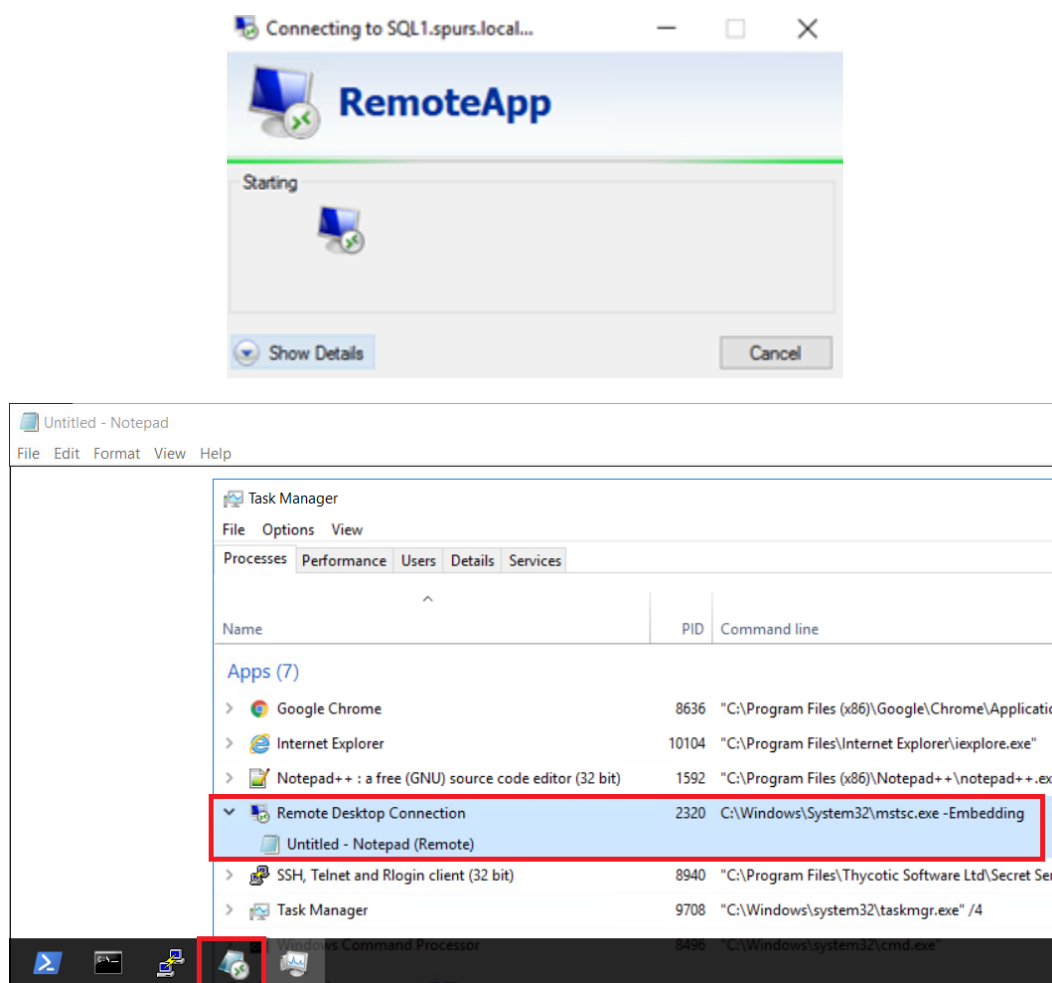- Lines 11-12 remove the RDP file and credential

Save as batch file to use in following step.

Launcher

Create a new Batch File launcher and use the following settings.

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When the launcher is working, you will see a RemoteApp window, before a session opens that includes just the application as opposed to a full RDP session:

Note: I noticed some inconsistencies in being able to authenticate with this launcher. Sometimes you get a popup saying the credentials were wrong, and if you enter the password it launches. If you experience this, please try setting the security settings (local or GPO) as detailed in this article: https://www.thewindowsclub.com/your-credentials-did-not-work-in-remote-desktop-on-windows-10

Kitty

KiTTY is a fork from version 0.70 of PuTTY, and it is only designed for the Microsoft® Windows® platform. Kitty client allows to do a Telnet session where you need to submit the user credentials automatically.

- On your destination system, ensure there's a Telnet server installed listening on port 23. (Free Tenet server can be found at https://www.pragmasys.com/telnet-server/download)
- Install Kitty on Secret Server and Use the executable Kitty_Portable.exe (found at https://github.com/cyd01/KiTTY/releases)
- Modify the kitty.ini
  - Remove the comment on '#commanddelay=2' and set it to 'commanddelay=1'.

```
#bcdelay=0
commanddelay=1
#initdelay=0
```

- Duplicate the 'Windows Account' template and Rename it to 'Windows Account (Telnet)'
  - Add a new Field Name called 'ShortName' which replace the hostname of the target server.

Secret Template Designer

SETTINGS

Secret Template Name	Windows Account (TELNET)
Secret Template Icon	
Active?	✔
Expiration Enabled?	⊖
Validate Password Requirements On Create?	⊖
Validate Password Requirements On Edit?	⊖
Field Displayed on Basic Home	Folder Name

[Edit]

FIELDS

FIELD NAME	FIELD DESCRIPTION	FIELD TYPE	IS REQUIRED?	HISTORY	SEARCHABLE	EDIT REQUIRES	HIDE ON VIEW	EXPOSE FOR DISPLAY	
Machine	The Server or Location of the Windows Machine.	Text	✔	All	✔	Edit	⊖	⊖	
Username	The Username of the Windows User.	Text	✔	All	✔	Edit	⊖	⊖	
Password	The password of the Windows User.	Password	✔	All	⊖	Edit	⊖	⊖	
ShortName	Host Short Name	Text	✔	All	✔	Edit	⊖	⊖	
Notes	Any additional notes.	Notes	⊖	All	✔	Edit	⊖	⊖	
*		Text	☐	☑ All	☐	Edit	☐	☐	➕

- Create a Launcher
  - Process Name: \\<host>\<Share>\kitty_portable.exe
  - Process Arguments: -telnet $Machine -cmd "$ShortName\$USERNAME\n$PASSWORD\n"

GENERAL SETTINGS

Launcher Name   KITTY
Active   Yes
Launcher Image

WINDOWS SETTINGS

Process Name   \\app\KITTY\kitty_portable.exe
How do I configure process arguments?
Process Arguments   -telnet $Machine -cmd "$ShortName\$USERNAME\n$PASSWORD\n"
Run Process As Secret Credentials   No
Load User Profile   No
Use Operating System Shell   No

- Add a New Launcher
  - o   Select the Launcher Type: KITTY
  - o   Domain: ShortName
  - o   Password: Password
  - o   Username: Username

Secret Template Edit Launcher Configuration

Launcher Type to use   KITTY
Domain   ShortName   *
Password   Password   *
Username   Username   *

ADVANCED SETTINGS

Restrict User Input ☐ ?

💾 Save   ✖ Cancel

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Launcher Type to use KITTY

Domain ShortName
Password Password
Username Username

Edit   Delete

Back   Add New Launcher

Delinea

ACS Launcher

```
java -Xmx1024m -jar <loc>IBMiAccess_v1r1\acsbundle.jar /PLUGIN=CFG /SYSTEM=%1 /IPADDR=%4
/USERID=%2 /R
```

```
java -Xmx1024m -jar <loc>IBMiAccess_v1r1\acsbundle.jar /PLUGIN=logon /SYSTEM=%1 /USERID=%2
/PASSWORD=%3
```

```
java -Xmx1024m -jar <loc>IBMiAccess_v1r1\acsbundle.jar /PLUGIN=5250 /SYSTEM=%1 /sso=1
```

Windows Settings

Process Name	C:\Users\dbushong\Desktop\ACSLauncherBatch.bat
How do I configure process arguments? %1 %2 %3 %4	
Process Arguments	$SystemName $USERNAME $PASSWORD $MACHINE
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	Yes

Mac Settings

Delinea

TN5250

This launcher is associated to the installer found here - tn5250.sourceforge.net

Launcher

GENERAL SETTINGS

Launcher Name	AS400 TN5250 Emulator
Active	Yes
Launcher Image	

WINDOWS SETTINGS

Process Name	C:\Program Files (x86)\TN5250\TN5250.exe
How do I configure process arguments?	
Process Arguments	$Host env.USER=$Username env.IBMSUBSPW=$Password
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

MAC SETTINGS

Process Name
How do I configure Mac process name and arguments?
Process Arguments

Back   Edit   View Audit

Delinea

Chrome – Incognito

WINDOWS SETTINGS

Process Name	"C:\Program Files (x86)\Google\Chrome\Application\chrome"
How do I configure process arguments?	
Process Arguments	-incognito $URL
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Delinea

Chrome – launch as other user (URL prompt optional)

Configure Launcher:

Launcher settings for Template (with URL prompt option, could also 'Restrict User Input' for quicker navigation):

Launcher Type to use Chrome

Domain	Domain	**Restrict User Input** No
Password	Password		
URL	<user input>		
Username	Username		

[Edit] [Delete]

Web Password Filler use option (add launcher to Template):

Launcher Type to use Website Login

Password Password
URL URL
Username Username

[Edit] [Delete]

[Back] [Add New Launcher]

Delinea
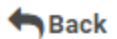
SecureCRT with SSH Proxy

c:\program files\vandyke software\clients\securecrt.exe

/SSH2 /AUTH keyboard-interactive /PASSWORD $PASSWORD /P $PORT /L $USERNAME $HOST

Launcher

GENERAL SETTINGS

Launcher Name	Secure CRT Proxied Process
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks   Yes

WINDOWS SETTINGS

Process Name	c:\program files\vandyke software\clients\securecrt.exe
How do I configure process arguments?	
Process Arguments	/SSH2 /AUTH keyboard-interactive /PASSWORD $PASSWORD /P $PORT /L $USERNAME $HOST
Use Operating System Shell	No

MAC SETTINGS

Process Name
How do I configure Mac process name and arguments?
Process Arguments

↩ Back   ✎ Edit   ☰ View Audit

Secret Template Edit Launcher Configuration

Launcher Type to use [Secure CRT Proxied Process ▼]

Host [Machine ▼] *

Password [Password ▼] *

Port [<use default> ▼] * Default Value [22] *

Username [Username ▼] *

Launcher Type to use Secure CRT Proxied Process

Host Machine

Password Password

Port 22

Username Username

[✎ Edit] [🗑 Delete]

[↩ Back] [➕ Add New Launcher]

Multiple URLs in Web Password Template with Chrome Launcher

1. Go to Admin >> Secret Templates >> Configure Launchers
2. Click on New
3. Pick process, and set up the rest of the launcher like in the screen shot below. The process name will be your chrome.exe location. Please check "Additional Prompt Field Name" as URL

GENERAL SETTINGS	
Launcher Name	Chrome
Active	Yes
Additional Prompt Field Name	URL
Launcher Image	
Wrap custom parameters with quotation marks	Yes
Record Multiple Windows	No

WINDOWS SETTINGS	
Process Name	"C:\Program Files (x86)\Google\Chrome\Application\chrome"
How do I configure process arguments?	
Process Arguments	$URL
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

MAC SETTINGS	
Process Name	
How do I configure Mac process name and arguments?	
Process Arguments	

We have the launcher set up now.

4. Let's go into Admin >> Secret Templates
5. Pick "Web Password" from the scroll down and click on "Edit".
6. Click on "Configure launcher" button.
7. "Add new launcher" at the bottom
8. Set up the fields like shown in the screen shot below

Delinea

Secret Template Edit Launcher Configuration

Launcher Type to use	Chrome ▼
Domain	URL ▼ *
Password	Password ▼ *
URL	<user input> ▼ *
Username	UserName ▼ *

ADVANCED SETTINGS

Restrict User Input	☑ ❓
Restrict As	Whitelist ▼
Restrict By Secret Field	URL ▼
Include Machines From Dependencies	☐ ❓

💾 Save   ✖ Cancel

This process will attach Chrome launcher to web password template. When you click on launcher, it will let you pick the url you would like to open.

Web format should be in https://website1.com, https://website2.com in your URL field.

HeidiSQL – MySQL/MariaDB Launcher

HeidiSQL is an open source application that be used as a launcher for MariaDB / MySQL, Microsoft SQL, PostgreSQL and SQLite. The process arguments below specifiy that it is using MySQL however this can be adapted for the other protocols/servers mentioned. A list of what to specify is here https://www.heidisql.com/help.php#commandline

Application websbite: https://www.heidisql.com/

To add into Secret Server:

First, configure the launcher settings:

NOTE: Untick "wrap custom parameters with quotation marks" as well as the additional prompt field name configured

GENERAL SETTINGS

Launcher Name	HeidiSQL
Active	Yes
Additional Prompt Field Name	SERVER
Launcher Image	
Wrap custom parameters with quotation marks	Yes
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	C:\Program Files\HeidiSQL\heidisql.exe
How do I configure process arguments?	
Process Arguments	-n 0 -h $SERVER -l libmysql.dll -u $USERNAME -p $PASSWORD
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

Process Name	C:\Program Files\HeidiSQL\heidisql.exe
Process Arguments	-n 0 -h $SERVER -l libmysql.dll -u $USERNAME -p $PASSWORD

I added it to the out of the box MySQL template with the settings below

FIELD NAME	FIELD SLUG NAME	FIELD DESCRIPTION	FIELD TYPE	IS F
Server	server	The server name or IP Address for the MySql instance.	Text	
Username	username	The username or userid of the MySql account.	Text	
Password	password	The password of the user.	Password	
Notes	notes	Any additional notes.	Notes	

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Firefox Incognito

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WinSCP SFTP SSH Proxy:

Launcher

GENERAL SETTINGS

Launcher Name	WinSCP Proxied Process
Active	Yes
Launcher Image	

Wrap custom parameters with quotation marks   No

WINDOWS SETTINGS

Process Name   C:\Program Files (x86)\WinSCP\WinSCP.exe
How do I configure process arguments?
Process Arguments $USERNAME:$PASSWORD@$HOST:$PORT
Use Operating System Shell   No

MAC SETTINGS

Process Name
How do I configure Mac process name and arguments?
Process Arguments

↩ Back   ✎ Edit   ☰ View Audit

Secret Template Edit Launcher Configuration

Launcher Type to use	WinSCP Proxied Process ▼	
Host	Machine ▼	*
Password	Password ▼	*
Port	<use default> ▼	* Default Value 22 *
Username	Username ▼	*

Delinea

delinea
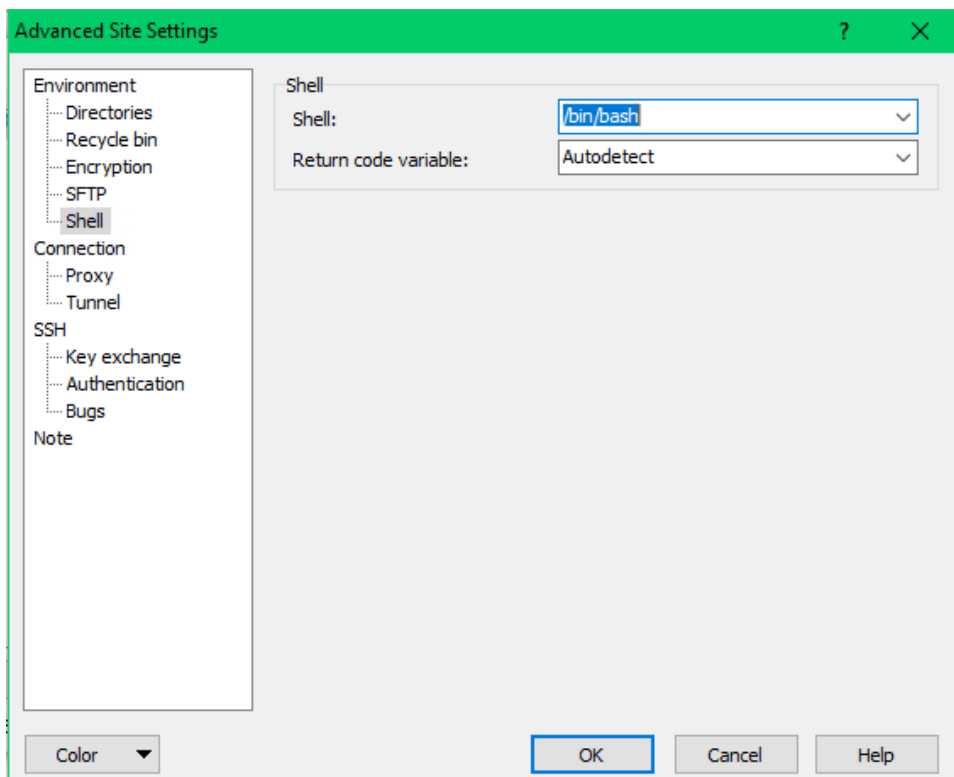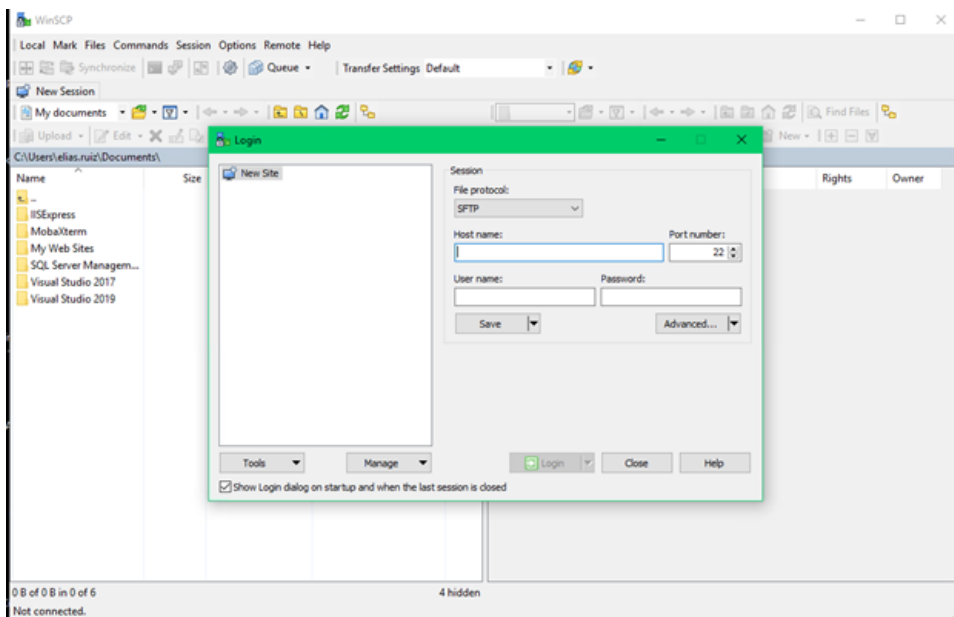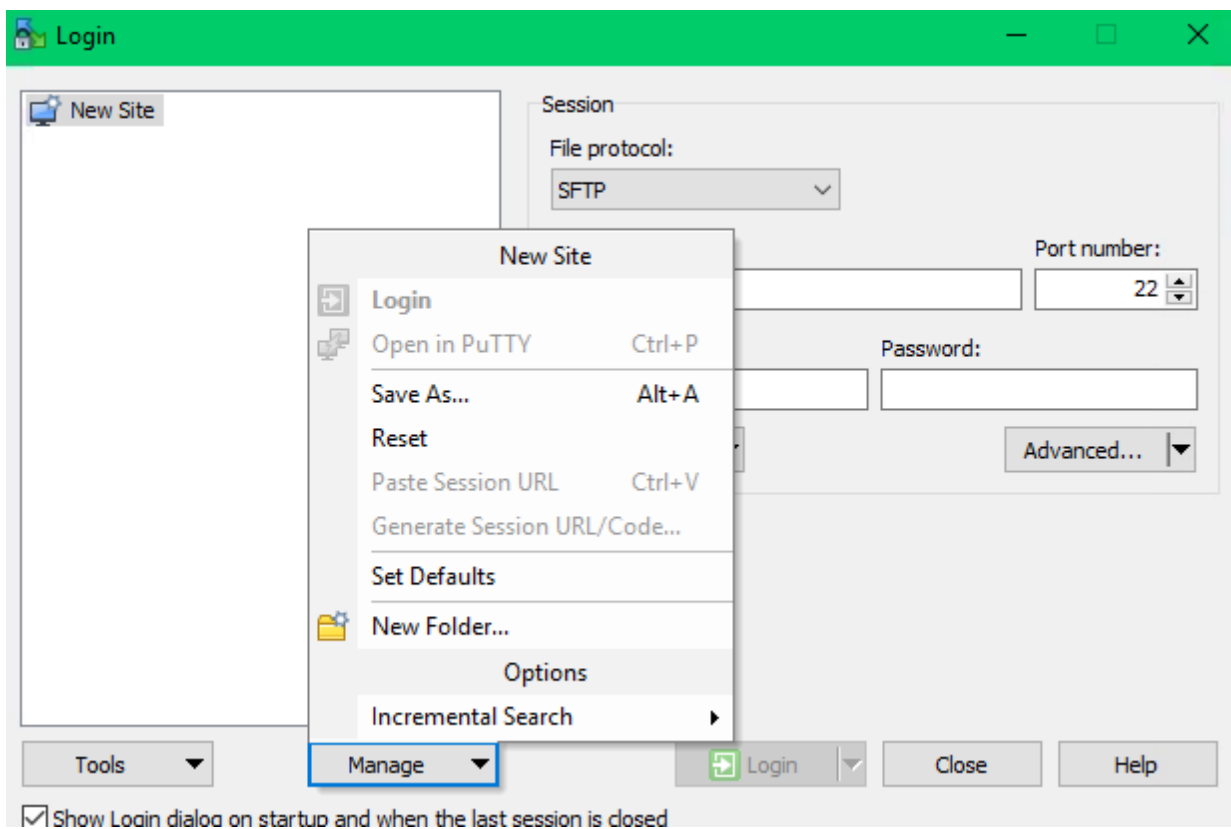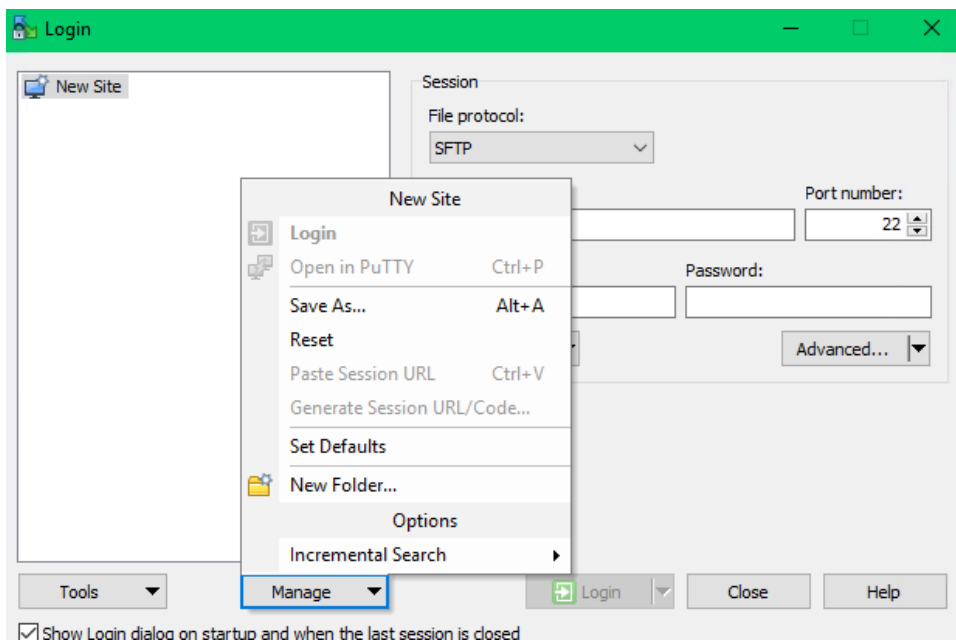
Chrome with launcher Whitelist:

Secret Template Edit Launcher Configuration

Launcher Type to use | Chrome ▼

Domain | Domain ▼ *

Password | Password ▼ *

URL | \<user input\> ▼ *

Username | Username ▼ *

ADVANCED SETTINGS

Restrict User Input ☑ ⊙

Restrict As | Whitelist ▼

Restrict By Secret Field | URL ▼

Include Machines From Dependencies ☐ ⊙

💾 Save   ✖ Cancel

Secret Name *	thycoticlab.com\Administrator	Edit
Template	Active Directory Account	Edit
Domain *	thycoticlab.com	Edit
Username *	Administrator	Edit
Password *	********** Show	Edit
Notes		Edit
Server		Edit
URL	https://microsoft.com, https://yahoo.com	Edit

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Launch Secret

Enter URL: *   Select one ▾

https://microsoft.com

https://yahoo.com

TOAD – Oracle Database Launcher

Toad is an application that is generally used by Oracle DB administrators to connect from their workstations to databases directly, in a similar manner to SQL Server Management Studio for MSSQL databases. I added the launcher to the default "Oracle Account" template, which doesn't have a launcher by default.

Update the process name to reflect Toad path for quest software which is:

C:\Program Files\Quest Software\Toad for Oracle Subscription\toad.exe

Process Name	C:\Program Files\Dell\Toad for Oracle 2016 Suite\Toad for Oracle 12.9\toad.exe
Process Arguments	-C $username/$password@$Server:1522/$database

Secret Template Edit Launcher Configuration

Launcher Type to use Toad

Domain	<blank>
Password	Password
Server	Server
Username	Username

✎ Edit   🗑 Delete

SQL Plus – Oracle Database Launcher

SQL Plus is an application that is generally used by Oracle DB administrators to connect from their workstations to databases directly and provides a command line interface type access to databases. I added the launcher to the default "Oracle Account" template, which doesn't have a launcher by default. SQL Plus is generally installed in C:\apps\<username>\ (of the person who installed it) but during installation appears to be added to the PATH which negates the need to reference the full file path directly.

Process Name	sqlplus.exe
Process Arguments	$username/$password@$Server:1522/$database

Using AutoIT to Create Launchers (SSMS SQL auth)

AutoIT is basically a way of automating stuff in the windows GUI and has lots of uses but in our case:

- Install AUTO IT on to the RDS server
- Create attached scrtipt and compile into an executable
- Create a session connector and child launcher to pass creds to the autoit script executable.

To show this, I have created a working launcher for SSMS with SQL Authentication which is a useful one as ssms.exe >v.18.0 no longer supports command line arguments.

To set this up:

1. Install AutoIT on your user's machines who will be using these launchers. If using session connector install on the RDS server: (https://www.autoitscript.com/site/autoit/downloads/)
2. Copy the attached script and open with SciTE (built in Auto IT script editor, convert to .au3)
   a. See Text Box Below for SSMS.exe SQL Auth Example
   b.
3. Compile (go to Tools on toolbar and select Compile)
4. Save .exe to a location accessible to all users (c:\autoit in my case)
5. Create a launcher with the following settings (note double quotes around variables):

```
;Thycotic ssms.exe with sql credential launcher script
;Author: Simon Hughes

;set filepath of ssms.exe
$Path = "C:\Program Files (x86)\Microsoft SQL Server Management Studio
18\Common7\IDE\Ssms.exe"
;execute ssms.exe
ShellExecute($Path)
;wait for the 'connect to server' window to appear
 WinWaitActive("Connect to Server", "", 0)
  ;set auth mode to SQL authenticaiton
ControlSend("Connect to Server" , "" , "[NAME:comboBoxAuthentication]",
"[NAME:SQL]")
  ;set server instance to servername passed from Secret Server launcher in cmd
line parameter  1
ControlSetText("Connect to Server", "", "[NAME:serverInstance]", $CmdLine[1],1)
  ;set username to username passed from Secret Server launcher in cmd line
parameter 2
 ControlSetText("Connect to Server", "", "[NAME:userName]", $CmdLine[2],1)
 ;set password to password passed from  Secret Server launcher in cmd line
parameter 3
 ControlSetText("Connect to Server", "", "[NAME:password]", $CmdLine[3],1)
 ;reactivate the connect to server window, required for the click of buttons
within the window
WinActivate ("Connect to Server")
;click the connect button
ControlClick("Connect to Server", "", "[NAME:connect]")
```

Launcher

GENERAL SETTINGS

Launcher Name	ssms Sql auth 1
Active	Yes
Additional Prompt Field Name	server
Launcher Image	

Wrap custom parameters with quotation marks	No
Record Multiple Windows	Yes
Record Additional Processes	< None >

WINDOWS SETTINGS

Process Name	C:\autoit\ssmssqlauth.exe

How do I configure process arguments?

Process Arguments	"$SERVER" "$USERNAME" "$PASSWORD"
Run Process As Secret Credentials	No
Load User Profile	No
Use Operating System Shell	No

MAC SETTINGS

Process Name

How do I configure Mac process name and arguments?

Process Arguments

[Back] [Edit] [View Audit]

Create a regular session connector launcher and use the above child launcher

Create a new secret template and pass servername, username and password.

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About Delinea

Delinea is a leading provider of privileged access management (PAM) solutions for the modern, hybrid enterprise. We make privileged access more accessible by eliminating complexity and defining the boundaries of access to reduce risk, ensure compliance, and simplify security. Delinea empowers thousands of customers worldwide, including over half the Fortune 100. Our customers include the world's largest financial institutions, intelligence agencies, and critical infrastructure companies. **delinea.com**

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