Deploying and Configuring Enterprise Connect 2.0

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Contents

NOTE: This guide uses Jamf Pro version 10.12 as the MDM server.

Requirements

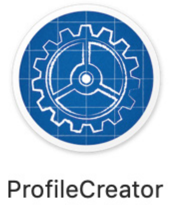
1. Enterprise Connect 2.0.2 or later provided by Apple.
2. Profile Creator 0.3.0 or later. Get it here: https://github.com/erikberglund/ProfileCreator/releases
3. PPPC Utility 10.01 or later. Get it here: https://github.com/jamf/PPPC-Utility/releases
4. Jamf Composer - This guide uses version 10.12.
5. Access to a Jamf Pro server. This guide uses a cloud hosted server.

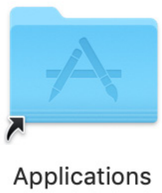
Section 1. Install Software

In this section we install the applications that will be used in this guide.

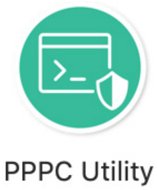
1. Double-click the Enterprise Connect installer and accept all the default prompts. Enter your admin credentials when prompted.

2. To install ProfileCreator, open the DMG and drag the ProfileCreator application to the Applications folder.





3. To install PPPC Utility, drag the PPPC Utility application from the Downloads folder to the Applications folder.



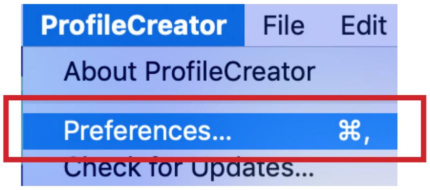
Section 2. Create a basic settings profile for Enterprise Connect

In this section we create and install a basic configuration profile that will set the Active Directory Domain and mount a network home directory.

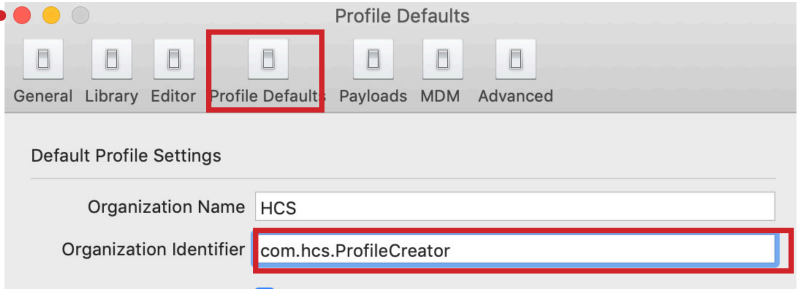
1. Open ProfileCreator located in the Applications folder. Approve any security messages if prompted. At first we will save the configuration profile locally so we can install it without Mobile Device Management for testing. After you discover which settings work for your desired workflow at your organization, you can export the configuration profile for use with Jamf Pro or another MDM.

ProfileCreator

2. Go to the ProfileCreator menu and choose Preferences.



3. In the toolbar, click Profile Defaults, then enter your Organization Name and Organization Identifier. Click the red button in the upper-left corner when done.

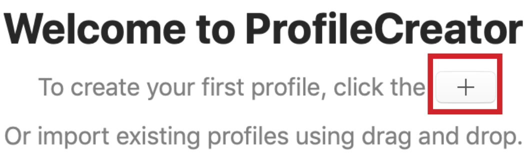

Click to close the window

Default Profile Settings

Organization Name: HCS

Organization Identifier: com.hcs.ProfileCreator

4. Click the Add button (+).

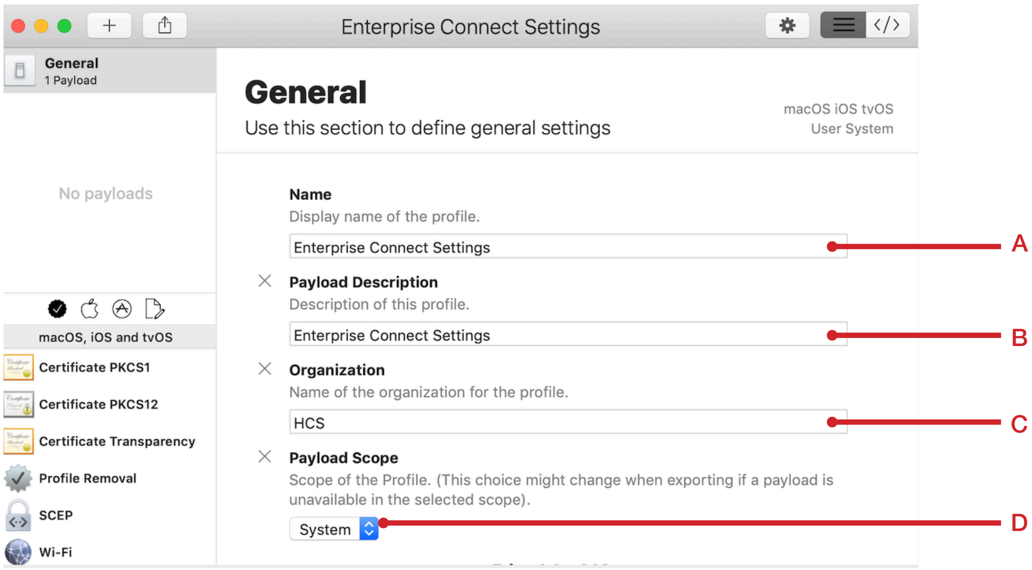


Welcome to ProfileCreator

To create your first profile, click the +

Or import existing profiles using drag and drop.

5. Enter the following in the General Section:
    A. Name: **Enterprise Connect Settings**
    B. Payload Description: **Enterprise Connect Settings**
    C. Organization - [This should already be populated]
    D. Payload Scope: Set to System



General

Use this section to define general settings

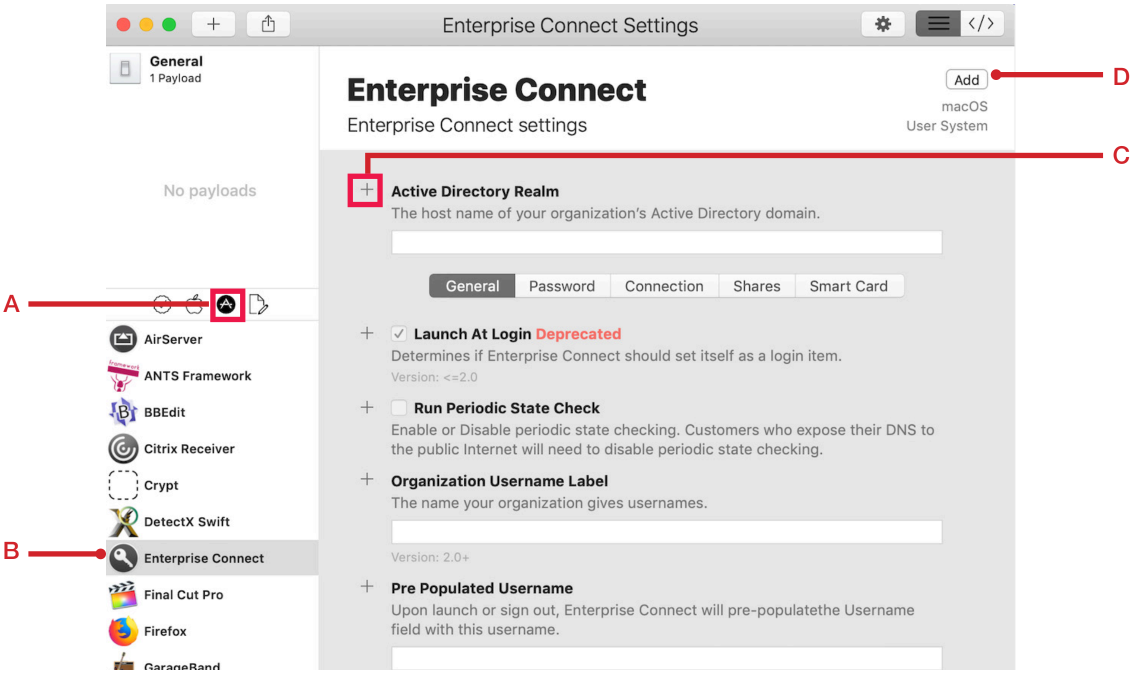
Name
Display name of the profile.
Enterprise Connect Settings

Payload Description
Description of this profile.
Enterprise Connect Settings

Organization
Name of the organization for the profile.
HCS

Payload Scope
Scope of the Profile. (This choice might change when exporting if a payload is unavailable in the selected scope).
System

6. Follow these steps:
    A. Select the Application icon.
    B. Select Enterprise Connect.
    C. Next to Active Directory Relam, click Add (+), and enter your realm.
    D. In the upper-right corner, click Add to add these Enterprise Connect settings to the configuration profile.



Enterprise Connect

Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.

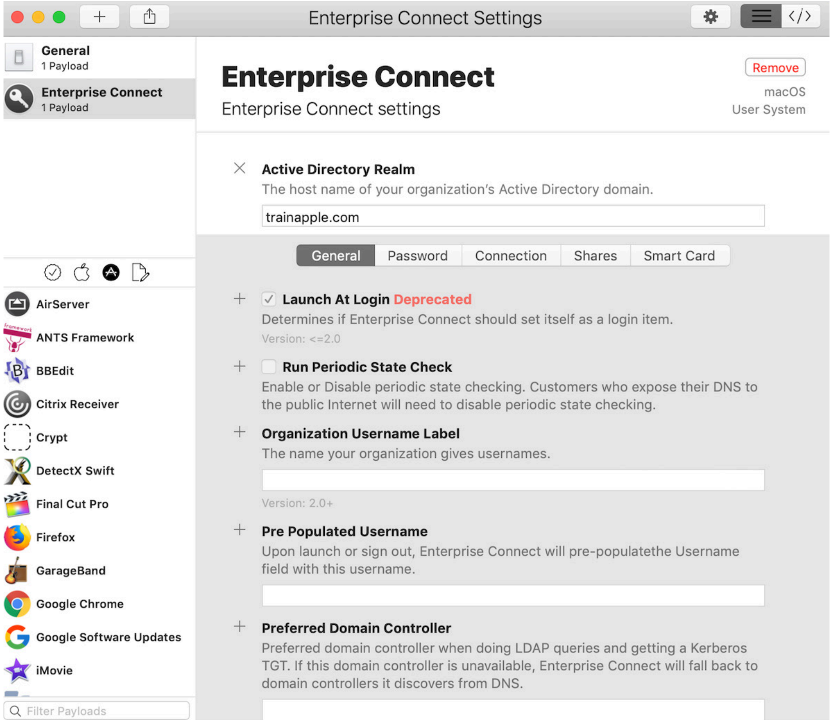
☑ **Launch At Login** Deprecated
Determines if Enterprise Connect should set itself as a login item.
Version: <=2.0

□ **Run Periodic State Check**
Enable or Disable periodic state checking. Customers who expose their DNS to the public Internet will need to disable periodic state checking.

Organization Username Label
The name your organization gives usernames.
Version: 2.0+

Pre Populated Username
Upon launch or sign out, Enterprise Connect will pre-populatethe Username field with this username.

7. Confirm your Enterprise Connect settings look like the figure below.



Enterprise Connect

Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.
trainapple.com

☑ **Launch At Login** Deprecated
Determines if Enterprise Connect should set itself as a login item.
Version: <=2.0

□ **Run Periodic State Check**
Enable or Disable periodic state checking. Customers who expose their DNS to the public Internet will need to disable periodic state checking.

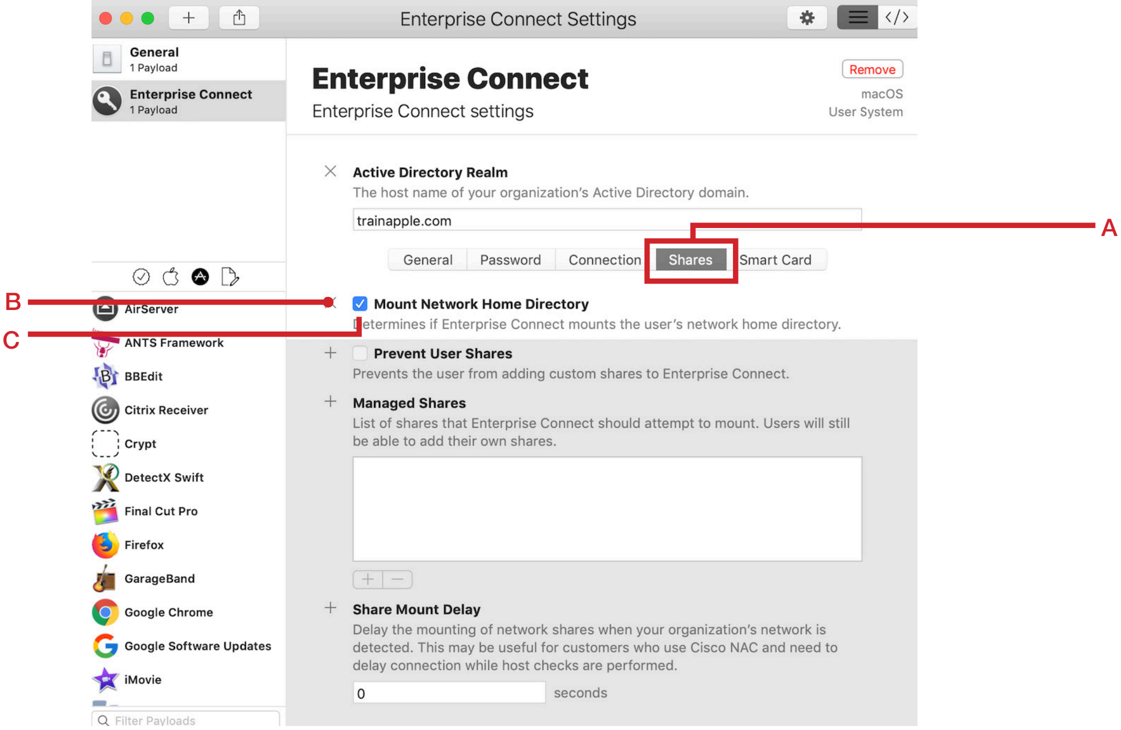
Organization Username Label
The name your organization gives usernames.
Version: 2.0+

Pre Populated Username
Upon launch or sign out, Enterprise Connect will pre-populatethe Username field with this username.

Preferred Domain Controller
Preferred domain controller when doing LDAP queries and getting a Kerberos TGT. If this domain controller is unavailable, Enterprise Connect will fall back to domain controllers it discovers from DNS.

8. Follow these steps:

A. Click the Shares tab.
B. Next to Mount Network Home Directory, click Add (+).
C. Select the checkbox to enable this option.



Enterprise Connect

Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.
trainapple.com

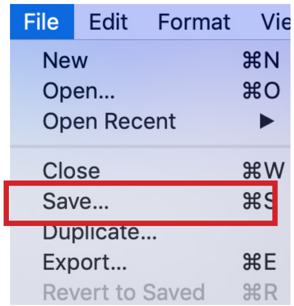
☑ **Mount Network Home Directory**
Determines if Enterprise Connect mounts the user's network home directory.

□ **Prevent User Shares**
Prevents the user from adding custom shares to Enterprise Connect.

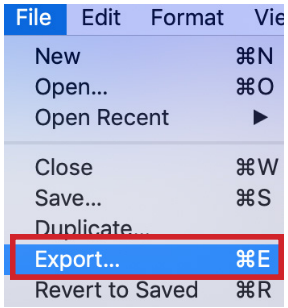
Managed Shares
List of shares that Enterprise Connect should attempt to mount. Users will still be able to add their own shares.

Share Mount Delay
Delay the mounting of network shares when your organization's network is detected. This may be useful for customers who use Cisco NAC and need to delay connection while host checks are performed.
0 seconds

9. From the File menu, choose Save.



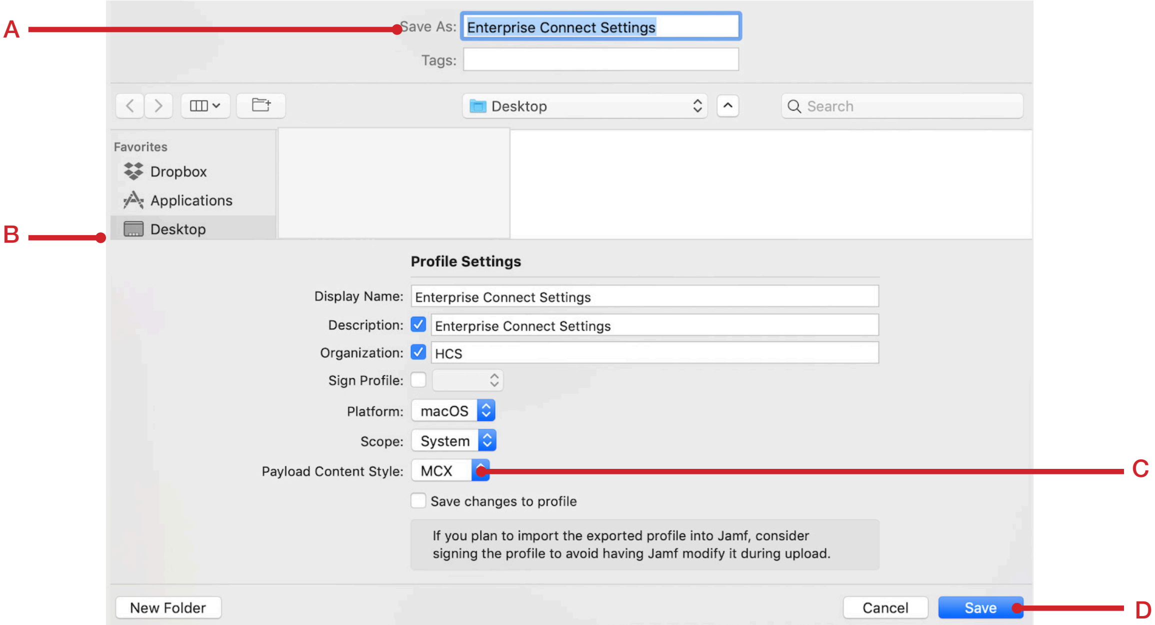
10. Choose File > Export.



11. Follow these steps:

A. In the Save As field, enter **Enterprise Connect Settings.**
B. Set the Desktop as the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save.

Note: In step C we export this to a .mobileconfig file with the MCX format instead of the Profile format. For the first portion of this guide we'll manually install the .mobileconfig file and it doesn't matter which format we use, but eventually you'll use the MCX format to upload to your MDM. Jamf Pro will strip an unsigned profile when you upload it. If you have a code signing certificate, you can sign the profile and save it. When you upload it to Jamf Pro, it will not strip the signed profile.



Save As: Enterprise Connect Settings
Tags:
Desktop
Profile Settings
Display Name: Enterprise Connect Settings
Description: ☑ Enterprise Connect Settings
Organization: ☑ HCS
Sign Profile: □
Platform: macOS
Scope: System
Payload Content Style: MCX
□ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

12. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation prompts.

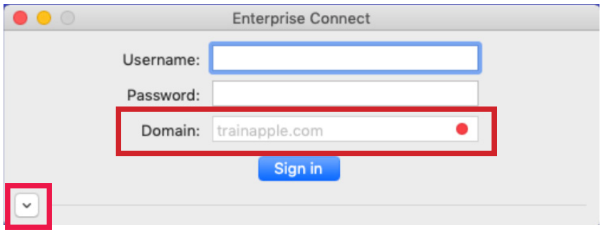
Section 3. An overview of Enterprise Connect

In this section we launch Enterprise Connect and go over the interface and menu bar item.

1. Launch Enterprise Connect located in the Applications folder.

Enterprise Connect

2. Notice the Active Directory Domain is prepopulated and unavailable for editing. This is because when we configure a setting in a configuration profile, the user interface does not allow a user to modify the setting. Click the arrow in the bottom-left corner to display more settings.



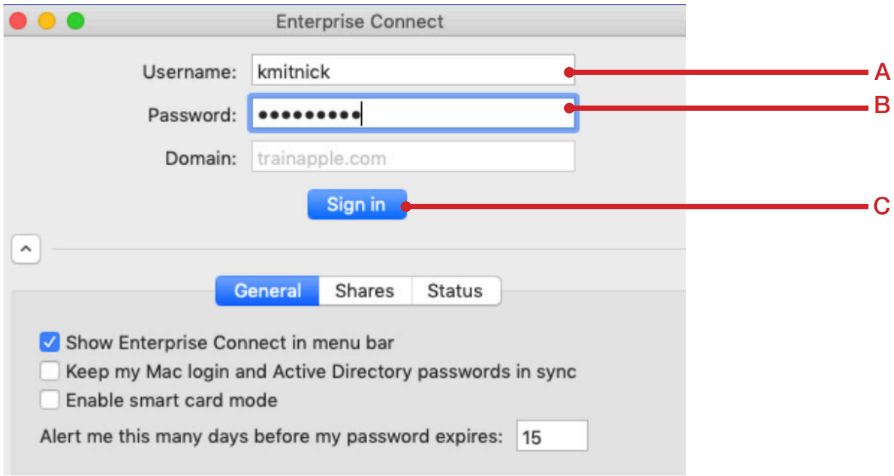
Enterprise Connect

Username:

Password:

Domain: trainapple.com

3. Follow these steps:
   A. Enter a username.
   B. Enter a password.
   C. Click Sign In.



Enterprise Connect

Username: kmitnick

Password: ••••••••••

Domain: trainapple.com

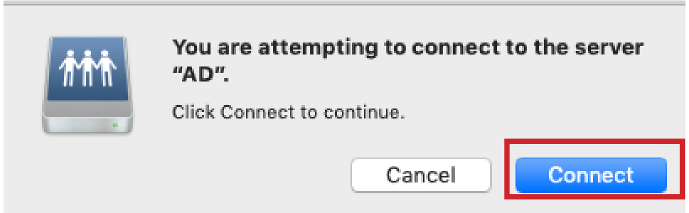
☑ Show Enterprise Connect in menu bar

☐ Keep my Mac login and Active Directory passwords in sync

☐ Enable smart card mode

Alert me this many days before my password expires: 15

4. During sign in you will be presented with the message below. This is because we used the Enterprise Connect configuration profile to configure Enterprise Connect to mount the user network home directory. The message is displayed only one time per user per server; it will not be displayed the next time the user connects to this server. Click Connect at this message.



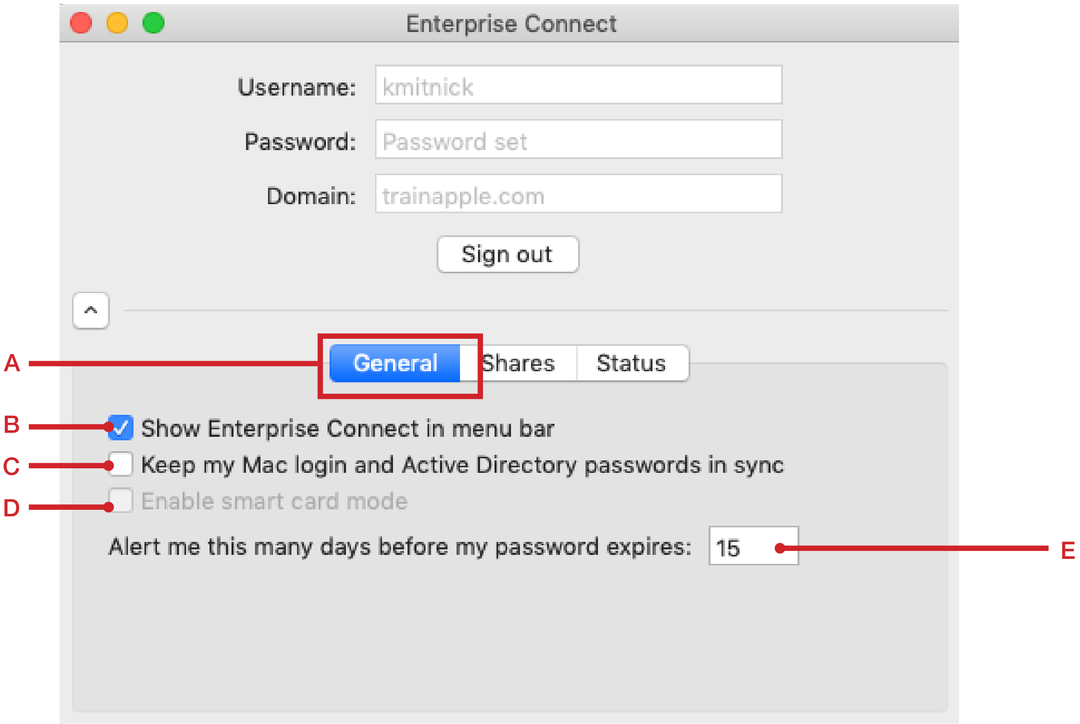
You are attempting to connect to the server "AD".

Click Connect to continue.

5. Your network home directory will be mounted.

6. Enterprise Connect is now signed in.
   A. Click the General tab to configure more items.
   B. This will hide or show the Enterprise Connect menu bar status item in the menu bar.
   C. If you want to keep your local Mac login password in sync with your Active Directory, enable this checkbox.
   D. This will be enabled if you enable the “Enable Smart Card Mode” option in the Enterprise Connect configuration profile.
   E. Configure the number of days to wait to alert the user before their Active Directory password expires.

NOTE: You can configure these options in the Enterprise Connect configuration profile; options that you configure in the configuration profile will be dimmed for the user.



Username: kmitnick

Password: Password set

Domain: trainapple.com

☑ Show Enterprise Connect in menu bar

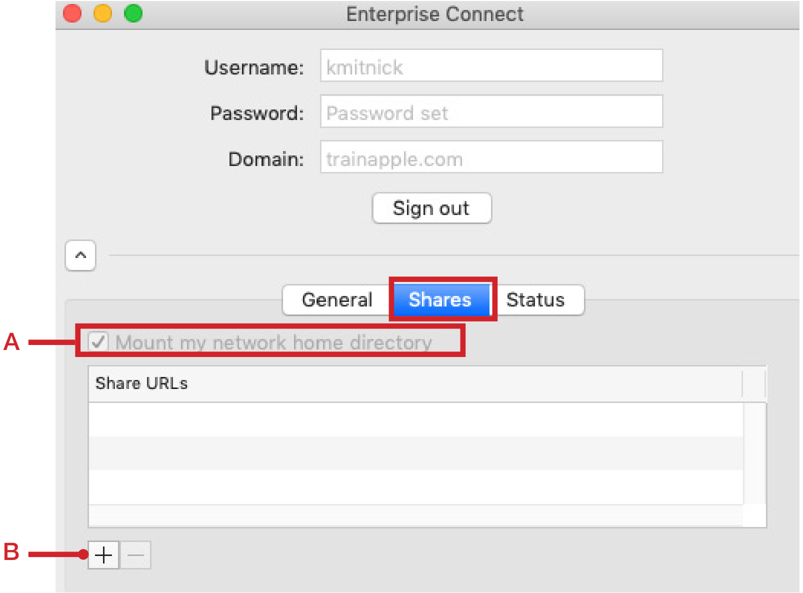
☐ Keep my Mac login and Active Directory passwords in sync

☐ Enable smart card mode

Alert me this many days before my password expires: 15

7. Click the Shares tab to configure more items.
    A. Mount the user's Active Directory home directory on the Mac.
    B. Mount any additional shares that are needed on the Mac.

   NOTE: "Mount my network home directory" is selected and dimmed. This is because we set this in the Enterprise Connect configuration profile.



Enterprise Connect

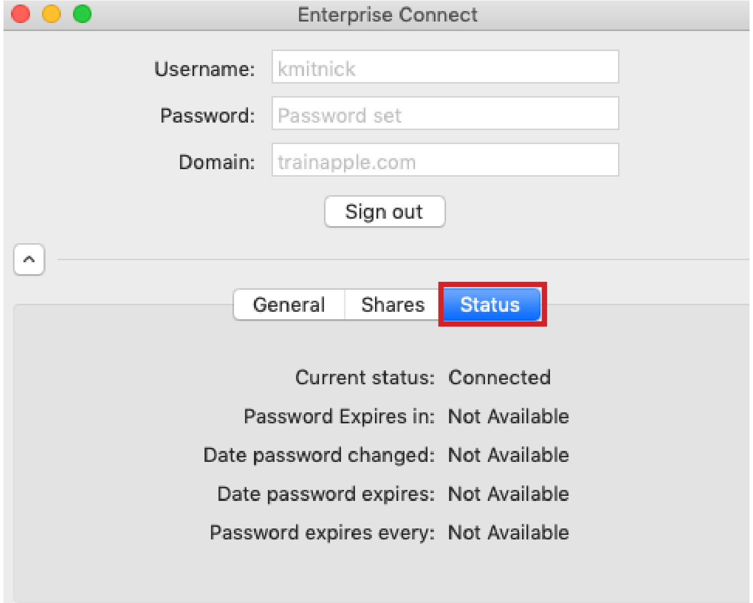
Username: kmitnick

Password: Password set

Domain: trainapple.com

☑ Mount my network home directory

8. Click the Status tab. This will show you the password status of the currently logged-in user. In the figure below, this user's password does not expire, which is why it shows Not Available. If this was a user whose password was set to expire, it would show more information.



Enterprise Connect

Username: kmitnick

Password: Password set

Domain: trainapple.com

Current status: Connected

Password Expires in: Not Available

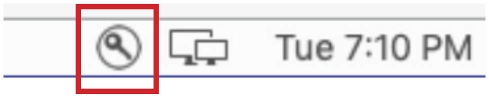
Date password changed: Not Available

Date password expires: Not Available

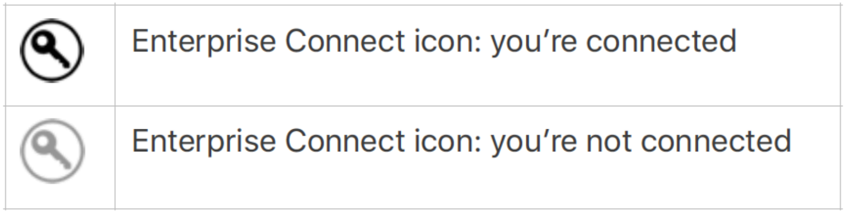
Password expires every: Not Available

9. Notice the key icon in the menu bar. This is the Enterprise Connect menu bar status icon.

   NOTE: In version 2.0 of Enterprise Connect, you can hide the menu bar status icon.

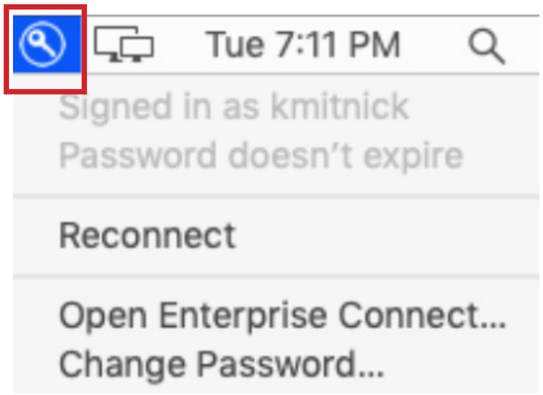


10. If the Enterprise Connect menu bar status item is dark black, this indicates that Enterprise Connect is connected. If the Enterprise Connect menu bar status item is gray, Enterprise Connect is not connected.



●	Enterprise Connect icon: you're connected
○	Enterprise Connect icon: you're not connected

11. Click the Enterprise Connect menu bar status item in the menu bar. It displays information for the signed-in user and their password expiration status. It also allows you to choose Reconnect, Open Enterprise Connect Client, and Change Password.



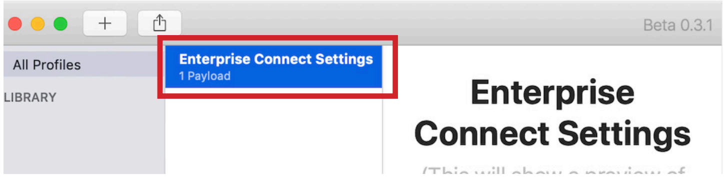
Section 4: Live Password Testing and Password Sync

In this section we configure live password testing and syncing the local Mac account password with the Active Directory account password.

1. Open ProfileCreator.

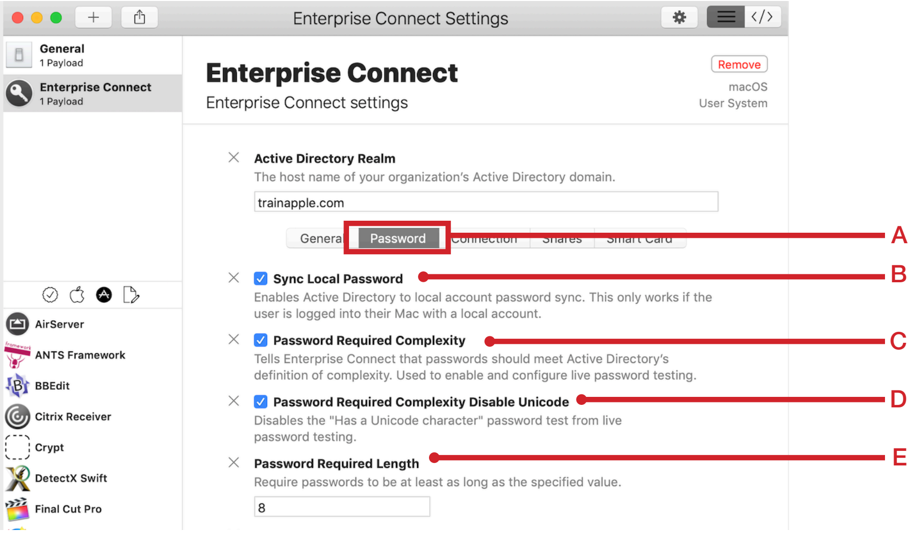
ProfileCreator

2. Double-click the Enterprise Connect Settings profile we created in section 2 of this guide.



3. Follow these steps:

   A. Click the Password tab.
   B. Click Add (+) next to Sync Local Password then select the checkbox to enable the option.
   C. Click Add (+) next to Password Required Complexity then select the checkbox to enable the option.
   D. Click Add (+) next to Password Required Complexity Disable Unicode then select the checkbox to enable the option.
   E. Next to Password Required Length option, click Add (+) then enter an appropriate number. This guide uses 8 as an example.



Enterprise Connect
Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.
trainapple.com

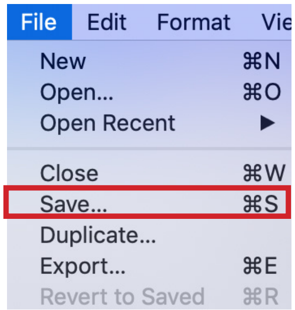
☑ **Sync Local Password**
Enables Active Directory to local account password sync. This only works if the user is logged into their Mac with a local account.

☑ **Password Required Complexity**
Tells Enterprise Connect that passwords should meet Active Directory's definition of complexity. Used to enable and configure live password testing.

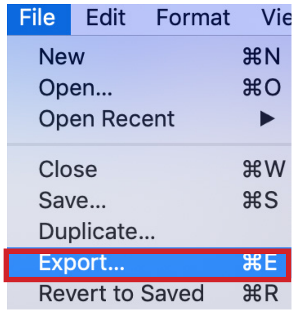
☑ **Password Required Complexity Disable Unicode**
Disables the "Has a Unicode character" password test from live password testing.

Password Required Length
Require passwords to be at least as long as the specified value.
8

4. Choose File > Save.

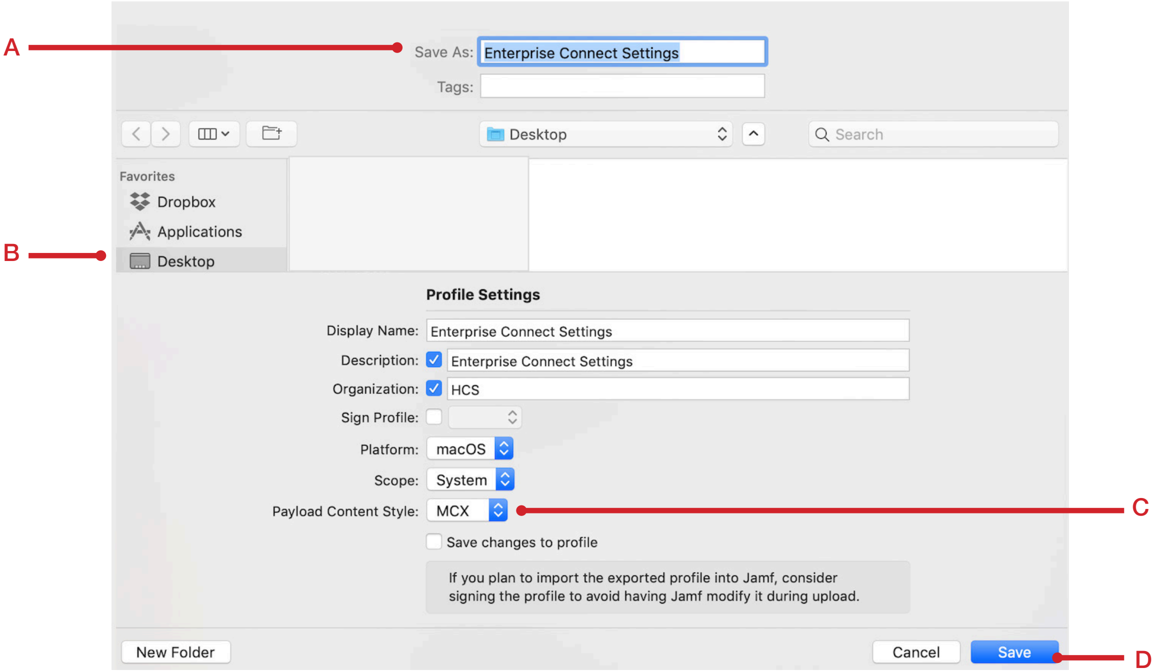


5. Choose File > Export.



6. Follow these steps:

A. In the Save As field, confirm the file name is **Enterprise Connect Settings**.
B. Confirm that the Desktop is the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save. When you are asked if you want to replace the existing file, click Replace.



Save As: Enterprise Connect Settings

Tags:

Profile Settings

Display Name: Enterprise Connect Settings

Description: ☑ Enterprise Connect Settings

Organization: ☑ HCS

Sign Profile: □

Platform: macOS

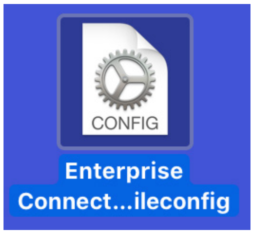
Scope: System

Payload Content Style: MCX

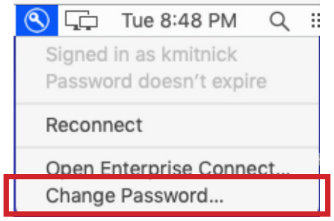
□ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

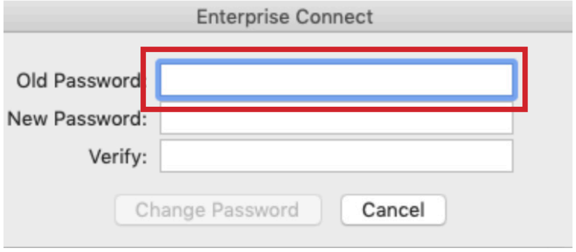
7. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation and overwrite prompts.



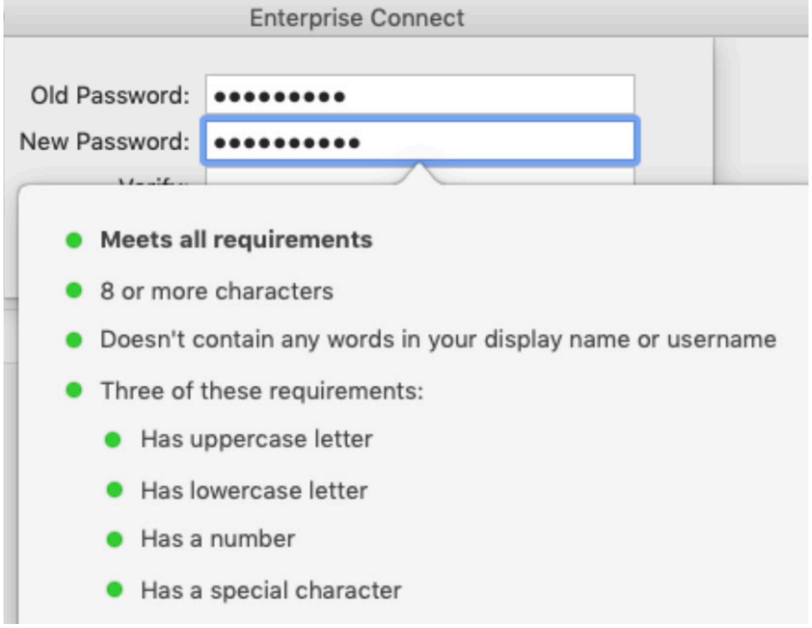
8. Click the Enterprise Connect menu bar status item and then choose Change Password.



9. Enter your old Password.

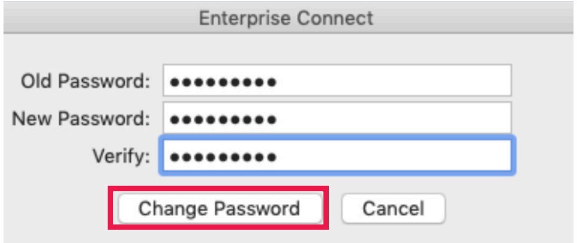


10. Enter your new password. Notice the live password testing pop-up changes the status indicators to green when all the password requirements are met.



- ● **Meets all requirements**
- ● 8 or more characters
- ● Doesn't contain any words in your display name or username
- ● Three of these requirements:
  - ● Has uppercase letter
  - ● Has lowercase letter
  - ● Has a number
  - ● Has a special character

11. Enter your new password in the Verify field, then click Change Password.



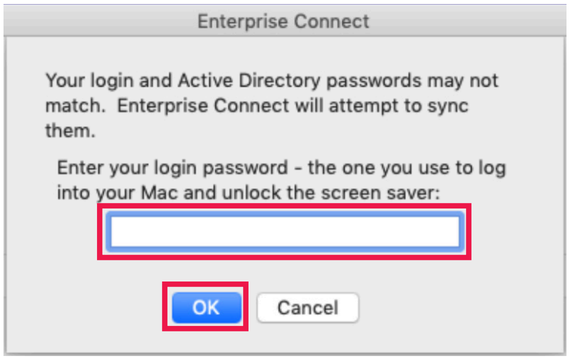
Enterprise Connect

Old Password: ●●●●●●●●●

New Password: ●●●●●●●●●

Verify: ●●●●●●●●●

12. Enterprise Connect prompts you to sync your local Mac login password with your Active Directory password. Enter your current Mac login password, then click OK.

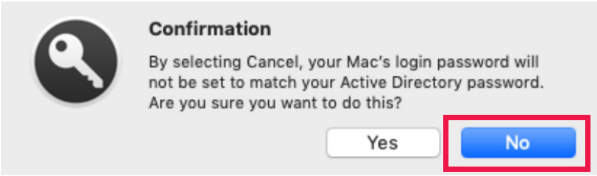


Enterprise Connect

Your login and Active Directory passwords may not match. Enterprise Connect will attempt to sync them.

Enter your login password - the one you use to log into your Mac and unlock the screen saver:

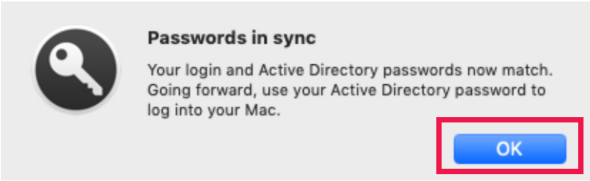
NOTE: If a user clicks Cancel at the above message, they will need to confirm they don't want to sync their passwords.



Confirmation

By selecting Cancel, your Mac's login password will not be set to match your Active Directory password. Are you sure you want to do this?

13. Passwords are now in sync. Click Ok.



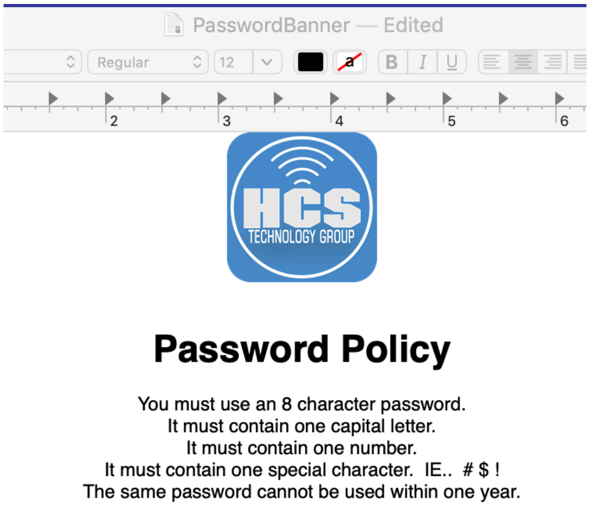
Passwords in sync

Your login and Active Directory passwords now match. Going forward, use your Active Directory password to log into your Mac.

Section 5: Password Requirement Banner

In this section we go over creating a banner to display the password requirements to users. If your organization uses a non-standard password complexity, so you can't use live password testing, you can configure Enterprise Connect to display a document with your organization's password requirements as they enter their new password.

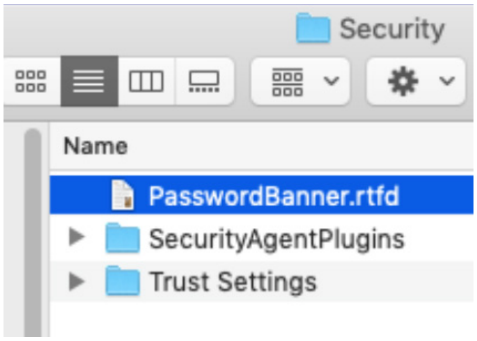
1. Open Text Edit and create a password requirement banner. It can contain graphics.
   The format must be rtf or rtfd (Rich Text Document or Rich Text Document with Attachments).



Password Policy

You must use an 8 character password.
It must contain one capital letter.
It must contain one number.
It must contain one special character. IE.. # $!
The same password cannot be used within one year.

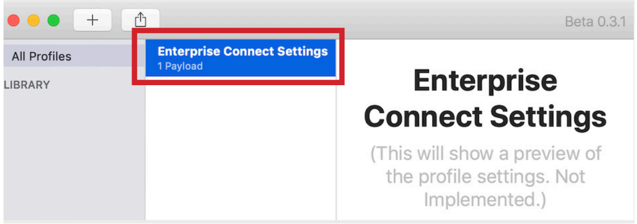
2. Save the password banner in the same location on all Mac computers that will use it. For this guide, we save the banner in /Library/Security/PasswordBanner.rtfd



3. Open ProfileCreator.

ProfileCreator

4. Double-click the Enterprise Connect Settings profile.

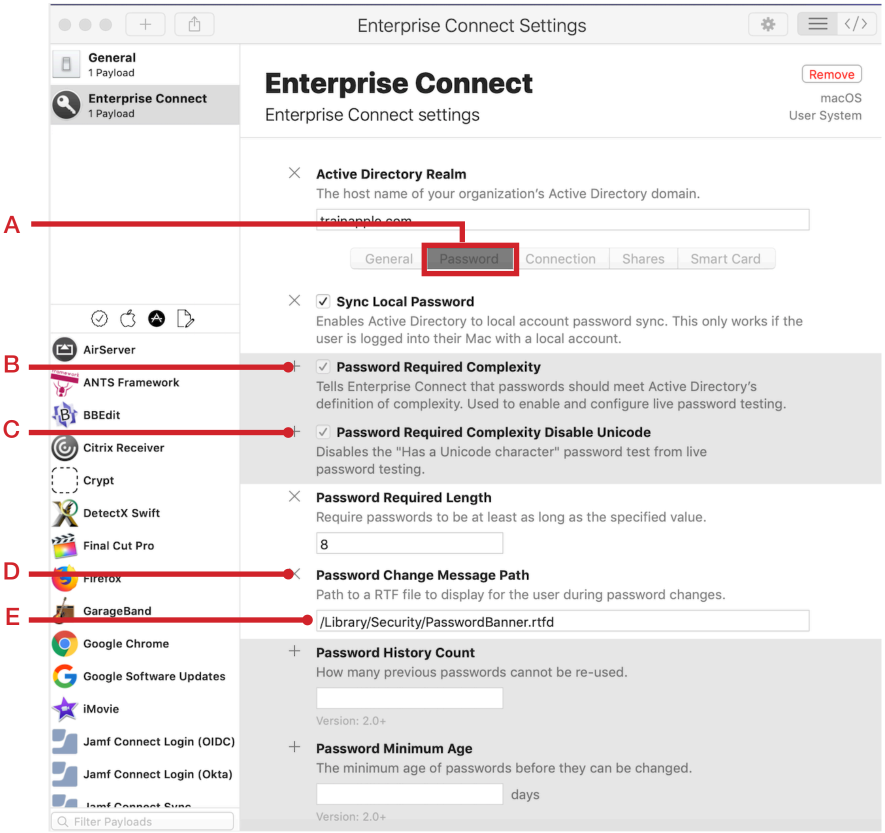


Enterprise Connect Settings

(This will show a preview of the profile settings. Not Implemented.)

5. Follow these steps:

   A. Click the Password tab.
   B. Next to Password Required Complexity, click Remove (X) to remove this option.
   C. Next to Password Required Complexity Disable Unicode, click Remove (X) to remove this option.
   D. Next to Password Change Message Path, click Add (+) to enable this option.
   E. Enter the path to the password banner (for this guide it is /Library/Security/PasswordBanner.rtfd).



Enterprise Connect

Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.
trainapple.com

☑ **Sync Local Password**
Enables Active Directory to local account password sync. This only works if the user is logged into their Mac with a local account.

☑ **Password Required Complexity**
Tells Enterprise Connect that passwords should meet Active Directory's definition of complexity. Used to enable and configure live password testing.

☑ **Password Required Complexity Disable Unicode**
Disables the "Has a Unicode character" password test from live password testing.

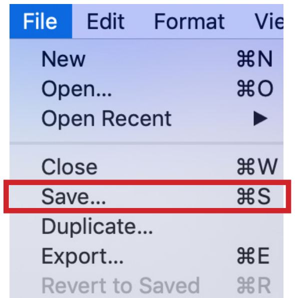
Password Required Length
Require passwords to be at least as long as the specified value.
8

Password Change Message Path
Path to a RTF file to display for the user during password changes.
/Library/Security/PasswordBanner.rtfd

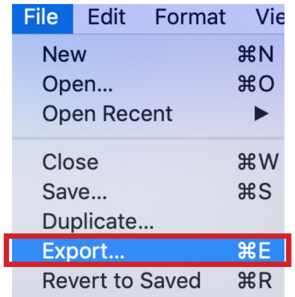
Password History Count
How many previous passwords cannot be re-used.
Version: 2.0+

Password Minimum Age
The minimum age of passwords before they can be changed.
days
Version: 2.0+

6. Choose File > Save.

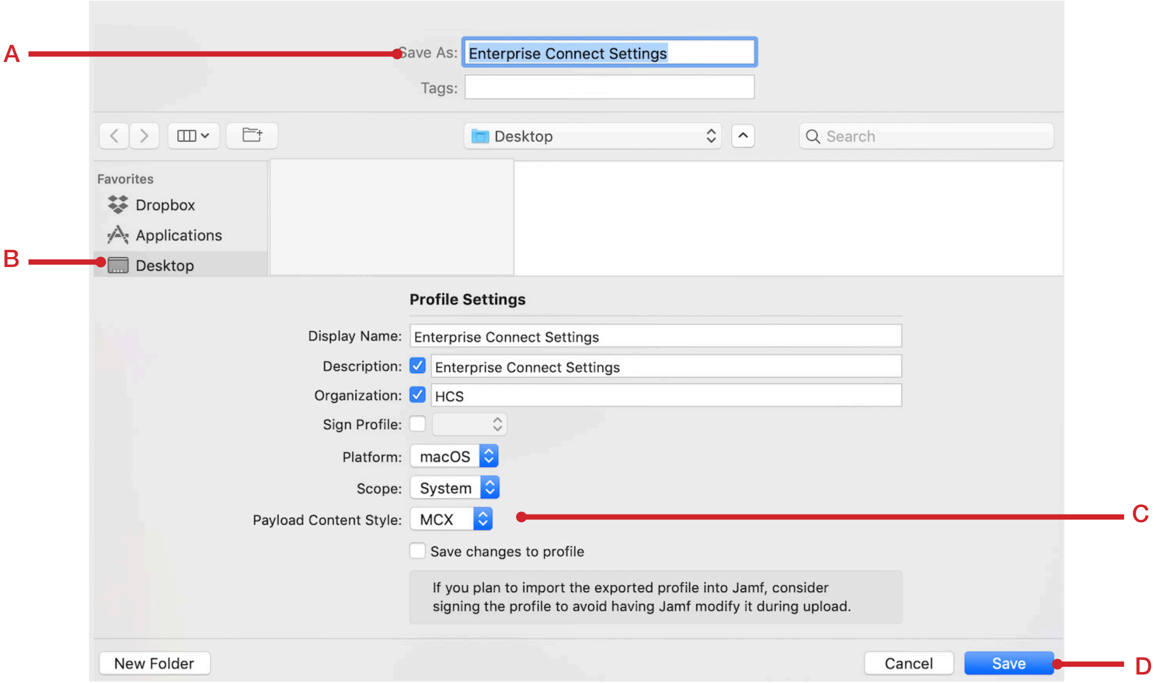


7. Choose File > Export.



8. Follow these steps:

A. In the Save As field, confirm the file name is **Enterprise Connect Settings**.
B. Confirm that the Desktop is the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save. When you are asked if you want to replace the existing file, click Replace.



Save As: Enterprise Connect Settings

Tags:

Profile Settings

Display Name: Enterprise Connect Settings

Description: ☑ Enterprise Connect Settings

Organization: ☑ HCS

Sign Profile: □

Platform: macOS

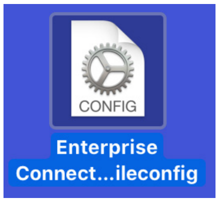
Scope: System

Payload Content Style: MCX

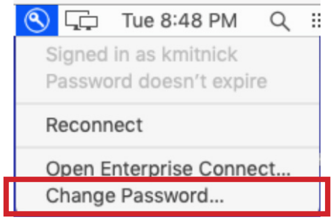
□ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

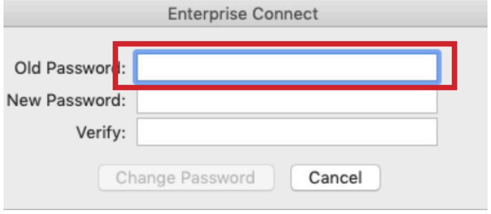
9. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation and overwrite prompts.



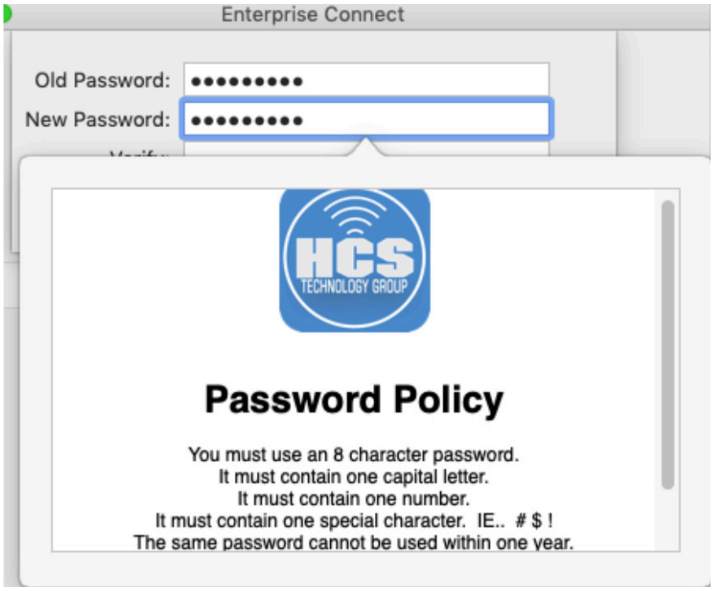
10. Click the Enterprise Connect menu bar status item and then choose Change Password.



11. Enter your old password.



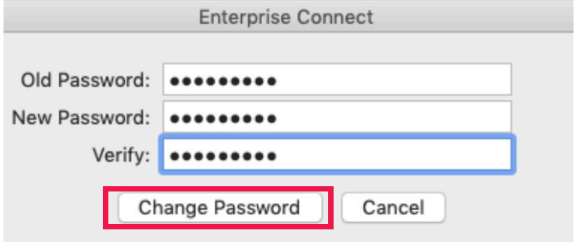
12. Enter your new password. The Password Banner will appear.



Password Policy

You must use an 8 character password.
It must contain one capital letter.
It must contain one number.
It must contain one special character. IE.. # $!
The same password cannot be used within one year.

13. Enter your new password in the Verify field, then click Change Password.



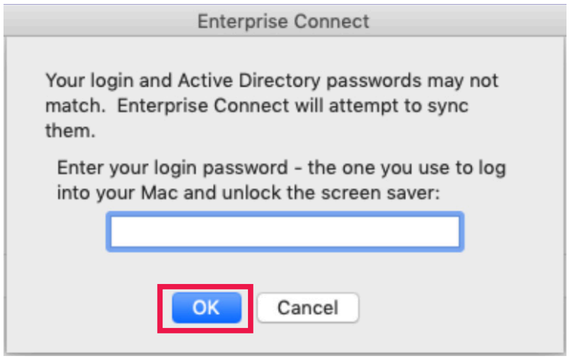
Enterprise Connect

Old Password: ●●●●●●●●●

New Password: ●●●●●●●●●

Verify: ●●●●●●●●●

14. You will be prompted to sync your local Mac login password with your Active Directory password. Enter your current Mac login password, then click OK.

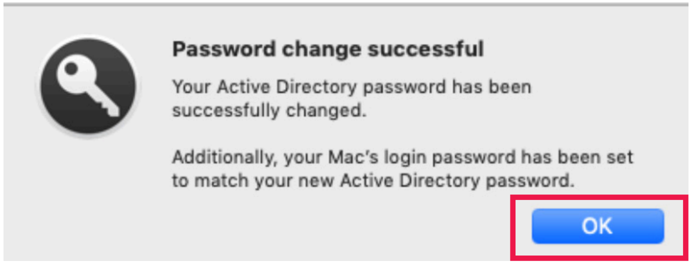


Enterprise Connect

Your login and Active Directory passwords may not match. Enterprise Connect will attempt to sync them.

Enter your login password - the one you use to log into your Mac and unlock the screen saver:

15. Passwords are now in sync. Click Ok.



Password change successful

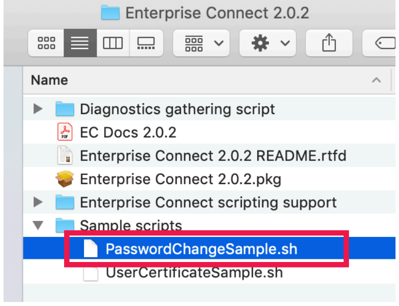
Your Active Directory password has been successfully changed.

Additionally, your Mac's login password has been set to match your new Active Directory password.

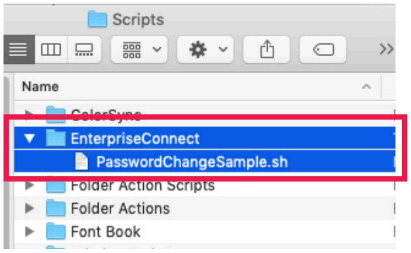
Section 6: Password Change Script

In this section, we create a script to delete keychain entries during a password change.

1. Enterprise Connect includes a “Sample” scripts directory. We will use the PasswordChangeSample.sh script for this lesson.


Enterprise Connect 2.0.2
Name
Diagnostics gathering script
EC Docs 2.0.2
Enterprise Connect 2.0.2 README.rtfd
Enterprise Connect 2.0.2.pkg
Enterprise Connect scripting support
Sample scripts
PasswordChangeSample.sh
UserCertificateSample.sh

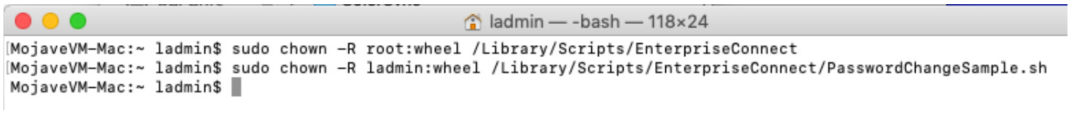
2. Navigate to /Library/Scripts and create a directory called EnterpriseConnect. To place a copy of the PasswordChangeSample.sh in the EnterpriseConnect directory, Option-drag the PasswordChangeSample.sh file from its original folder to the /Library/Scripts/EnterpriseConnect folder.



3. In this step, modify the ownership and permissions for the script. Enterprise Connect will not execute a script if it doesn’t have correct permissions. Only the root user should have permissions to modify the script, and the user running Enterprise Connect should have permissions to read and execute, but not modify, the script.

   Open Terminal. Run the following commands and enter your password if prompted:

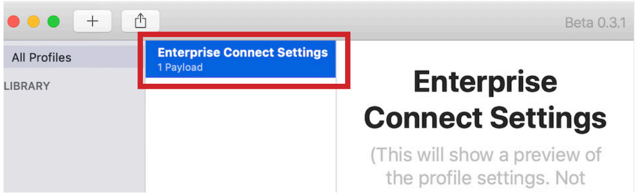
```
sudo chown -R root:wheel /Library/Scripts/EnterpriseConnect
sudo chmod -R 755 /Library/Scripts/EnterpriseConnect/PasswordChangeSample.sh
```



```
MojaveVM-Mac:~ ladmin$ sudo chown -R root:wheel /Library/Scripts/EnterpriseConnect
MojaveVM-Mac:~ ladmin$ sudo chown -R ladmin:wheel /Library/Scripts/EnterpriseConnect/PasswordChangeSample.sh
MojaveVM-Mac:~ ladmin$ 
```

4. Open ProfileCreator.

5. Double-click the Enterprise Connect Settings profile.

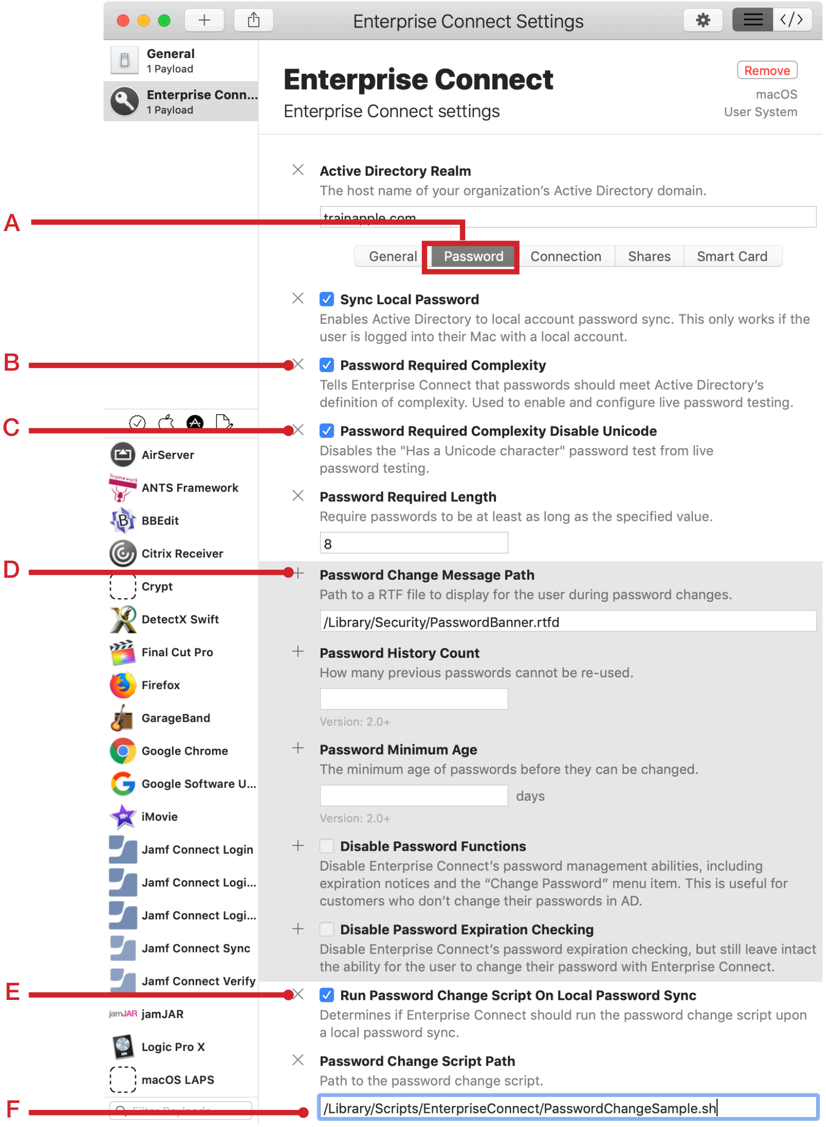


Enterprise Connect Settings

(This will show a preview of the profile settings. Not

6. Follow these steps:

A. Click the Password tab.
B. Next to Password Required Complexity, Add (+) to enable this option.
C. Next to Password Required Complexity Disable Unicode, Add (+) to enable this option.
D. Next to Password Change Message Path, click Remove (X).
E. Next to Run Password Change Script on Local Password Sync, click Add (+) to enable this option.
F. In the Password Change Script Path field enter the appropriate value. This guide uses the following example path: /**Library/Scripts/EnterpriseConnect/PasswordChangeSample.sh**.



Enterprise Connect

Enterprise Connect settings

Active Directory Realm
The host name of your organization's Active Directory domain.
trainapple.com

☑ **Sync Local Password**
Enables Active Directory to local account password sync. This only works if the user is logged into their Mac with a local account.

☑ **Password Required Complexity**
Tells Enterprise Connect that passwords should meet Active Directory's definition of complexity. Used to enable and configure live password testing.

☑ **Password Required Complexity Disable Unicode**
Disables the "Has a Unicode character" password test from live password testing.

Password Required Length
Require passwords to be at least as long as the specified value.
8

Password Change Message Path
Path to a RTF file to display for the user during password changes.
/Library/Security/PasswordBanner.rtfd

Password History Count
How many previous passwords cannot be re-used.
Version: 2.0+

Password Minimum Age
The minimum age of passwords before they can be changed.
days
Version: 2.0+

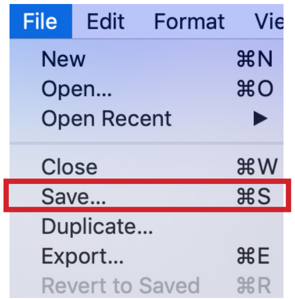
□ **Disable Password Functions**
Disable Enterprise Connect's password management abilities, including expiration notices and the "Change Password" menu item. This is useful for customers who don't change their passwords in AD.

□ **Disable Password Expiration Checking**
Disable Enterprise Connect's password expiration checking, but still leave intact the ability for the user to change their password with Enterprise Connect.

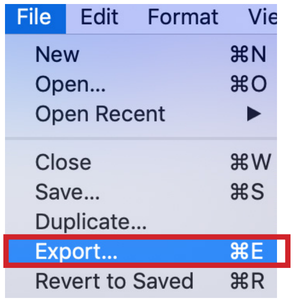
☑ **Run Password Change Script On Local Password Sync**
Determines if Enterprise Connect should run the password change script upon a local password sync.

Password Change Script Path
Path to the password change script.
/Library/Scripts/EnterpriseConnect/PasswordChangeSample.sh

7. Choose File > Save.

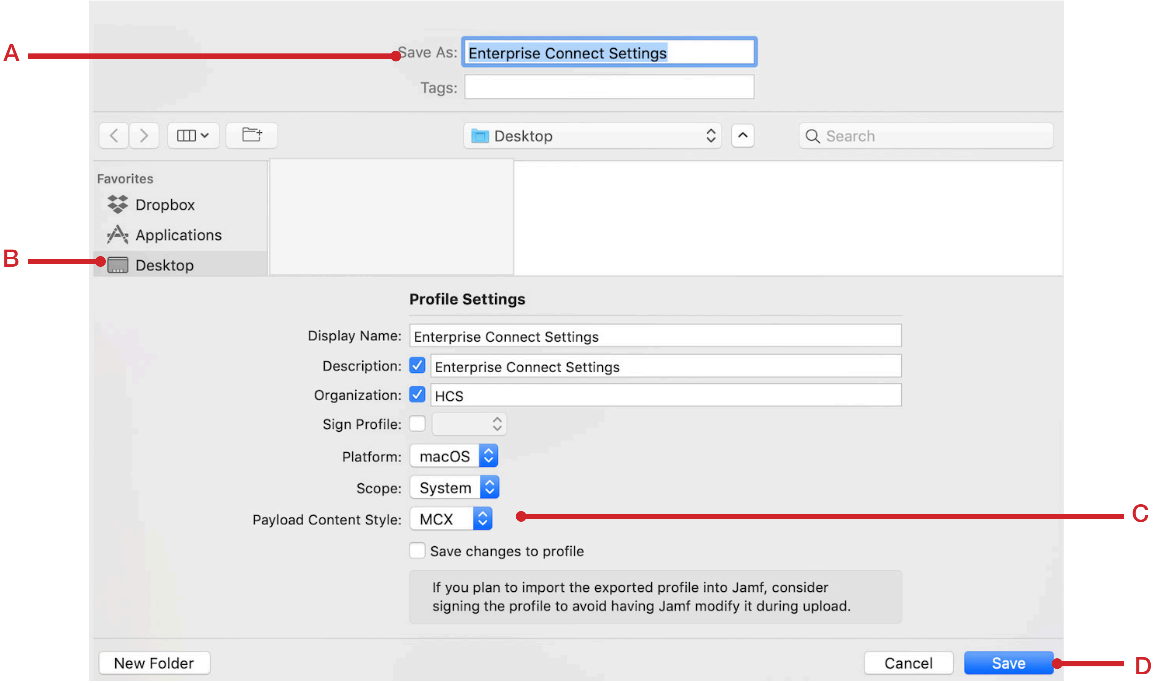


8. Choose File > Export.



9. Follow these steps:

A. In the Save As field, confirm the file name is **Enterprise Connect Settings**.
B. Confirm that the Desktop is the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save. When you are asked if you want to replace the existing file, click Replace.



Save As: Enterprise Connect Settings

Tags:

Profile Settings

Display Name: Enterprise Connect Settings

Description: ☑ Enterprise Connect Settings

Organization: ☑ HCS

Sign Profile: □

Platform: macOS

Scope: System

Payload Content Style: MCX

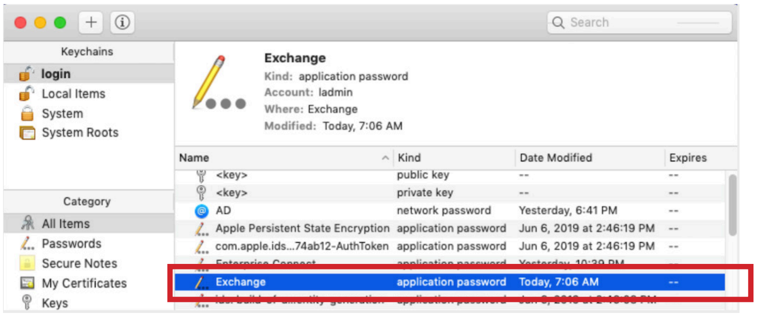
□ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

10. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation and overwrite prompts.

11. Open Keychain Access located in /Applications/Utilities. This guide illustrates a pre-existing Exchange keychain item that stores the Exchange credentials for the currently logged-in user. This guide will demonstrate that when you change your password, the PasswordChangeSample.sh script removes your Exchange keychain item.

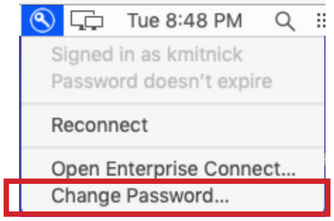
NOTE: The PasswordChangeSample.sh script can remove Exchange, Lync, and 802.1X keychain items. You can also edit this script to fit your needs.



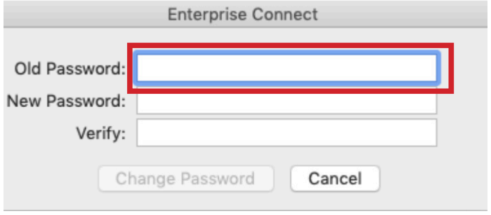
Exchange
Kind: application password
Account: ladmin
Where: Exchange
Modified: Today, 7:06 AM

Name	Kind	Date Modified	Expires
<key>	public key	--	--
<key>	private key	--	--
AD	network password	Yesterday, 6:41 PM	--
Apple Persistent State Encryption	application password	Jun 6, 2019 at 2:46:19 PM	--
com.apple.ids...74ab12-AuthToken	application password	Jun 6, 2019 at 2:46:19 PM	--
Enterprise Connect	application password	Yesterday, 10:39 PM	--
Exchange	application password	Today, 7:06 AM	--
[illegible]	application password	[illegible]	

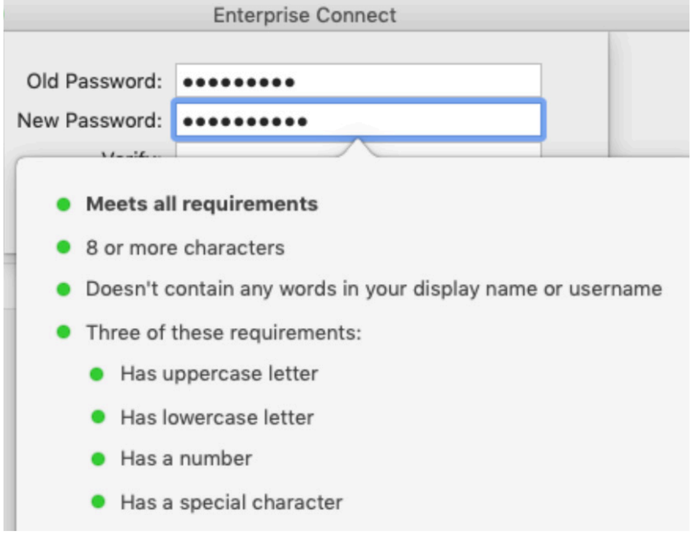
12. Click the Enterprise Connect menu bar status item and then choose Change Password.



13. Enter your old password.



14. Enter your new password then click Change Password. After enter a valid old password and new password then click Change Password, the PasswordChangeSample.sh script will run and remove the Exchange keychain item.

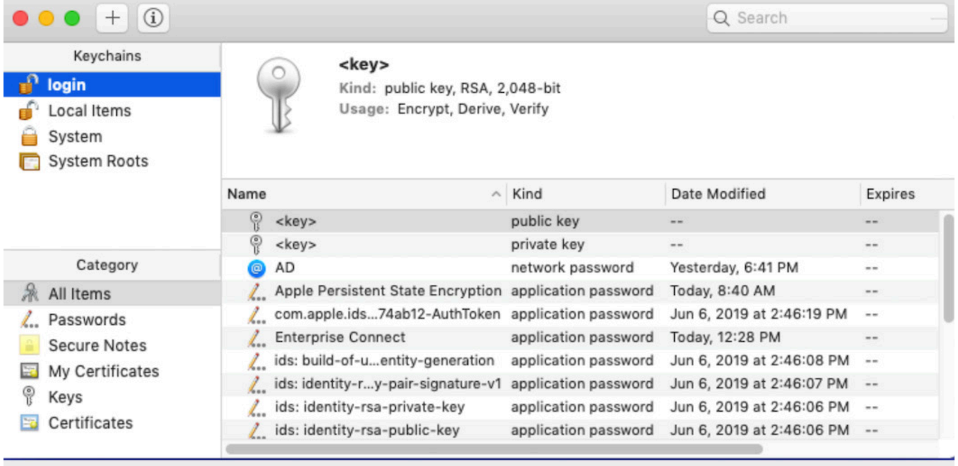


Old Password: ●●●●●●●●●

New Password: ●●●●●●●●●●●

- ● **Meets all requirements**
- ● 8 or more characters
- ● Doesn't contain any words in your display name or username
- ● Three of these requirements:
  - ● Has uppercase letter
  - ● Has lowercase letter
  - ● Has a number
  - ● Has a special character

15. Open Keychain Access. Confirm that the Exchange keychain item has been removed.



<key>
Kind: public key, RSA, 2,048-bit
Usage: Encrypt, Derive, Verify

Name	Kind	Date Modified	Expires
<key>	public key	--	--
<key>	private key	--	--
AD	network password	Yesterday, 6:41 PM	--
Apple Persistent State Encryption	application password	Today, 8:40 AM	--
com.apple.ids...74ab12-AuthToken	application password	Jun 6, 2019 at 2:46:19 PM	--
Enterprise Connect	application password	Today, 12:28 PM	--
ids: build-of-u...entity-generation	application password	Jun 6, 2019 at 2:46:08 PM	--
ids: identity-r...y-pair-signature-v1	application password	Jun 6, 2019 at 2:46:07 PM	--
ids: identity-rsa-private-key	application password	Jun 6, 2019 at 2:46:06 PM	--
ids: identity-rsa-public-key	application password	Jun 6, 2019 at 2:46:06 PM	--

16. Quit Keychain Access.

Section 7: Audit and Connection Complete Scripts

In this section we go over creating audit and connection complete scripts.

NOTE: There are sample Audit and Connection Completed scripts in the Enterprise Connect 2.0.2 manual on pages 26 -28.

1. Create an audit script. Use the sample script below. This script will check if Filevault is enabled. If not, it will deny connection. Save it to your Desktop as **audit.sh**.

```
#!/bin/sh
# Sample Enterprise Connect audit script
# Check if FileVault is on.
fdesetup status | grep ‘FileVault is On’
if [ $? -ne 0 ]; then
# Write a message to the system log and exit with a non-zero status.
logger -t “ECAudit” “Audit script failed - FileVault is not enabled”
exit 1
fi
# If we got here, the system passed the audit, so exit with a 0 (success)
# exit code
exit 0
```

2. Create a connected completed script. Use the sample script below. This script will display a notification upon a successful connection. Save it to your Desktop as **connectionCompleted.sh**.

```
#!/bin/sh
# Sample Enterprise Connect connection completed script
/usr/bin/osascript -e ‘display notification “Enterprise Connect AD Connection Was
Successful” with title “Enterprise Connect”’
exit 0
```

3. Use this step to move the scripts to /Library/Scripts/EnterpriseConnect then change ownership and permissions so they will work when used with Enterprise Connect. Open Terminal, then run the commands below.

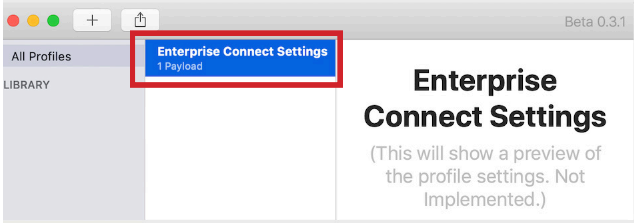
   NOTE: Replace ladmin with the name of your user account.

```
sudo mv /Users/ladmin/Desktop/audit.sh /Library/Scripts/EnterpriseConnect/

sudo mv /Users/ladmin/Desktop/connectionCompleted.sh /Library/Scripts/
EnterpriseConnect/

sudo chown root:wheel /Library/Scripts/EnterpriseConnect/audit.sh

sudo chown root:wheel /Library/Scripts/EnterpriseConnect/connectionCompleted.sh

sudo chmod 755 /Library/Scripts/EnterpriseConnect/audit.sh

sudo chmod 755 /Library/Scripts/EnterpriseConnect/connectionCompleted.sh
```

4. Open ProfileCreator.

ProfileCreator

5. Double-click the Enterprise Connect Settings profile.

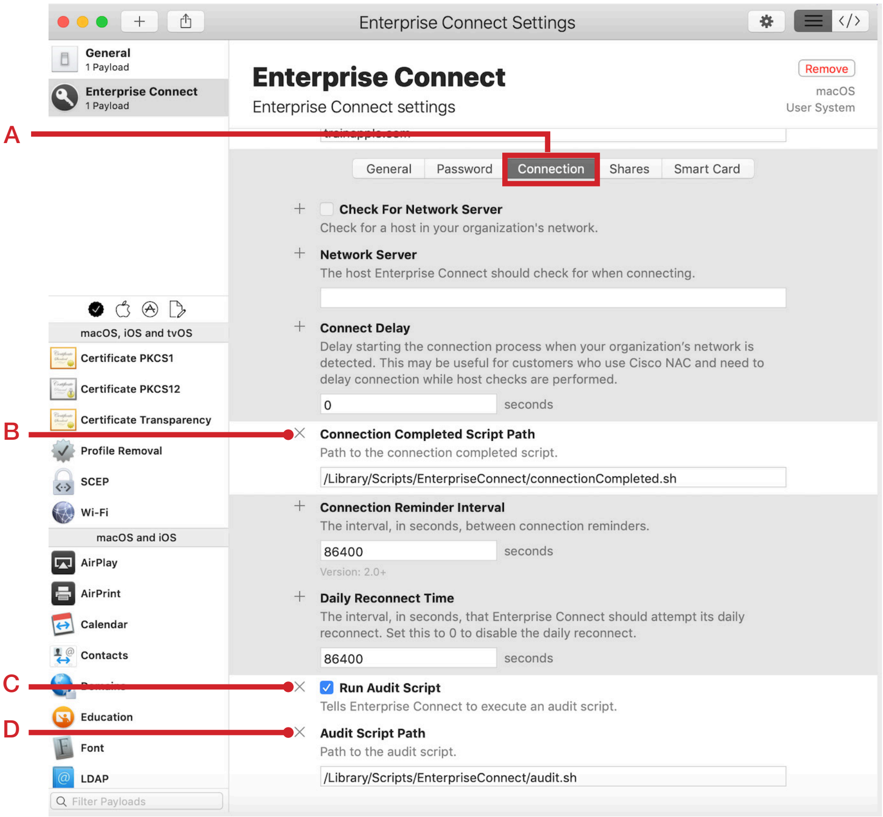


Enterprise Connect Settings

(This will show a preview of the profile settings. Not Implemented.)

6. Follow these steps:

   A. Click the Connection tab.
   B. Next to Connection Completed Script Path, click Add (+) to enable this option, then enter an appropriate path. This guide uses the following example path: **/Library/Scripts/EnterpriseConnect/connectionCompleted.sh**.
   C. Next to Run Audit Script, click Add (+) then select the checkbox to enable this option.
   D. Next to Audit Script Path, click Add (+) then enter an appropriate path. This guide uses the following example path: **/Library/Scripts/EnterpriseConnect/audit.sh**.



Enterprise Connect

Enterprise Connect settings

Check For Network Server
Check for a host in your organization's network.

Network Server
The host Enterprise Connect should check for when connecting.

Connect Delay
Delay starting the connection process when your organization's network is detected. This may be useful for customers who use Cisco NAC and need to delay connection while host checks are performed.
0 seconds

Connection Completed Script Path
Path to the connection completed script.
/Library/Scripts/EnterpriseConnect/connectionCompleted.sh

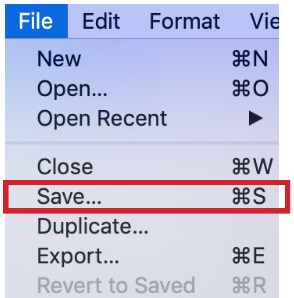
Connection Reminder Interval
The interval, in seconds, between connection reminders.
86400 seconds
Version: 2.0+

Daily Reconnect Time
The interval, in seconds, that Enterprise Connect should attempt its daily reconnect. Set this to 0 to disable the daily reconnect.
86400 seconds

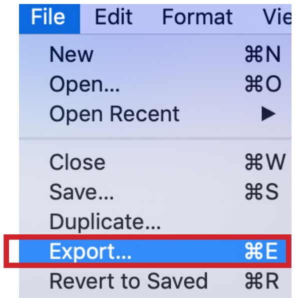
☑ **Run Audit Script**
Tells Enterprise Connect to execute an audit script.

Audit Script Path
Path to the audit script.
/Library/Scripts/EnterpriseConnect/audit.sh

7. Choose File > Save.

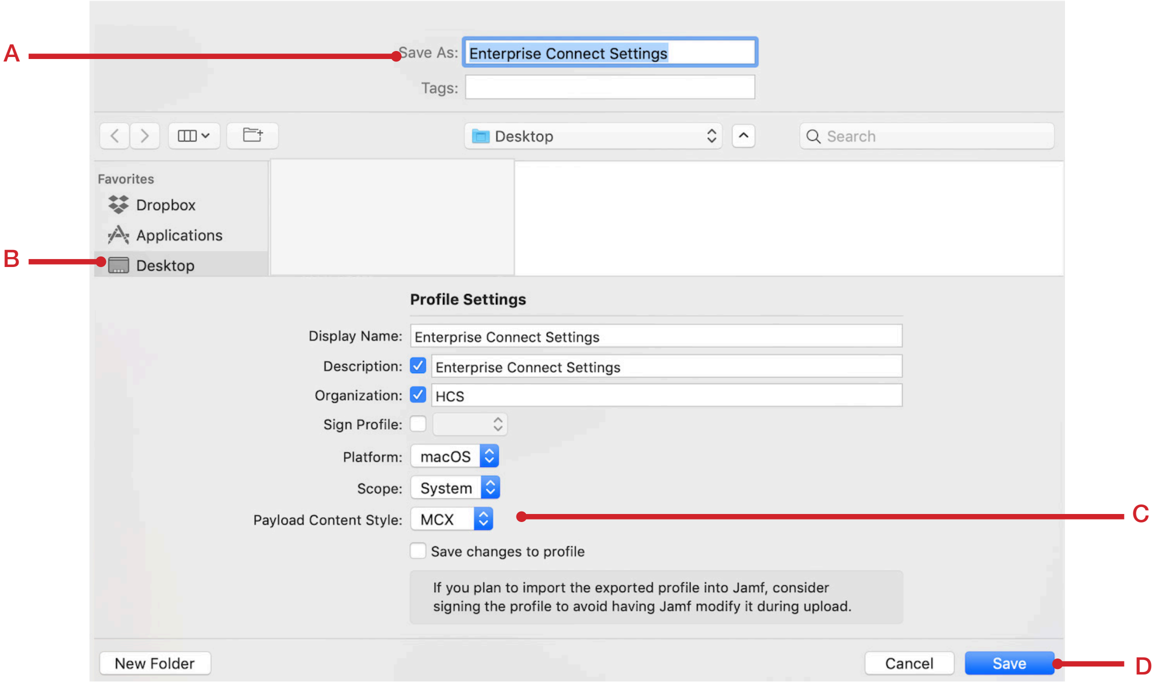


8. Choose File > Export.



9. Follow these steps:

A. In the Save As field, confirm the file name is **Enterprise Connect Settings**.
B. Confirm that the Desktop is the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save. When you are asked if you want to replace the existing file, click Replace.



Save As: Enterprise Connect Settings

Tags:

Profile Settings

Display Name: Enterprise Connect Settings

Description: ☑ Enterprise Connect Settings

Organization: ☑ HCS

Sign Profile: □

Platform: macOS

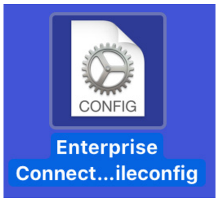
Scope: System

Payload Content Style: MCX

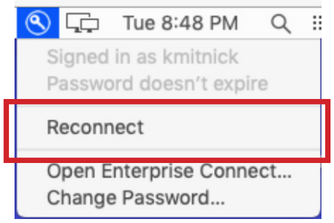
□ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

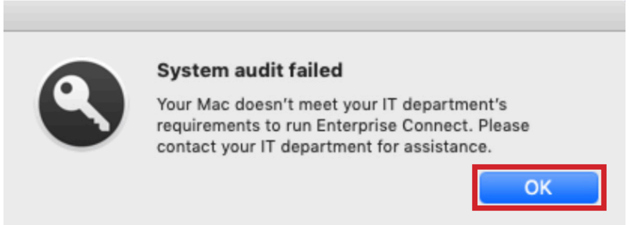
10. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation and overwrite prompts.



11. Click the Enterprise Connect menu bar status item and choose Reconnect.



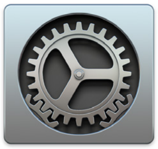
12. The audit script will fail because Filevault is NOT enabled on the Mac used for this guide. You will be greeted with the message below. Click OK.



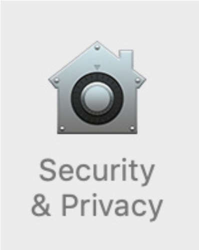
System audit failed

Your Mac doesn't meet your IT department's requirements to run Enterprise Connect. Please contact your IT department for assistance.

13. Enable FileVault on the Mac. Open System Preferences, which is located in the Dock.

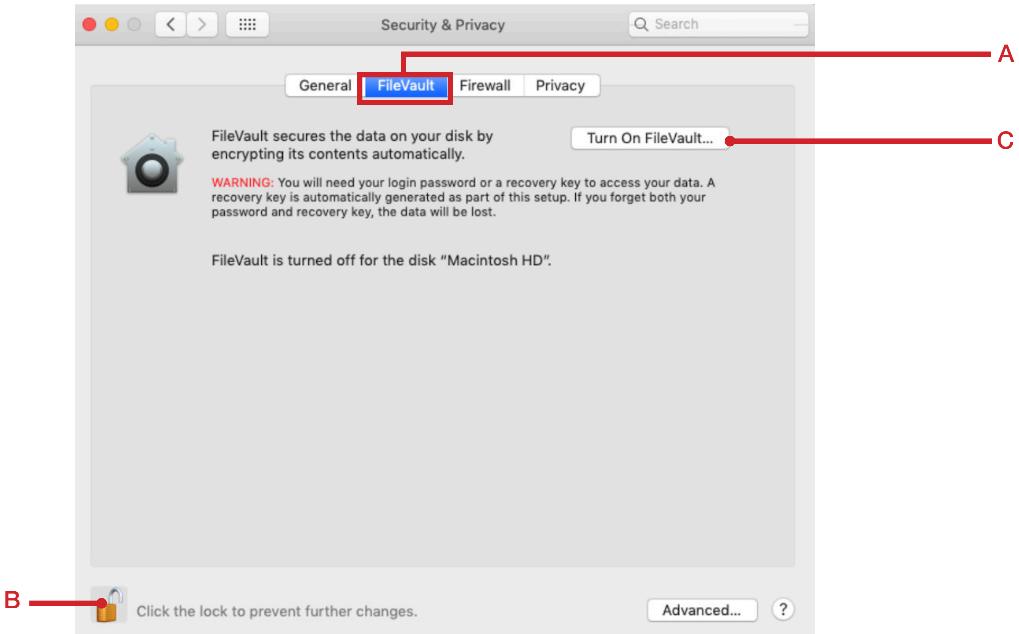


14. Click Security & Privacy.



15. Follow these steps:

    A. Click the FileVault tab.
    B. In the lower-left corner, click the lock then authenticate with your admin credentials.
    C. Click Turn On FileVault.



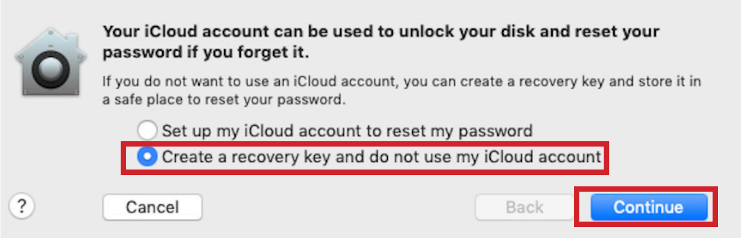
FileVault secures the data on your disk by encrypting its contents automatically.

WARNING: You will need your login password or a recovery key to access your data. A recovery key is automatically generated as part of this setup. If you forget both your password and recovery key, the data will be lost.

FileVault is turned off for the disk "Macintosh HD".

Click the lock to prevent further changes.

16. Select "Create a recovery key and do not use my iCloud account" then click Continue.

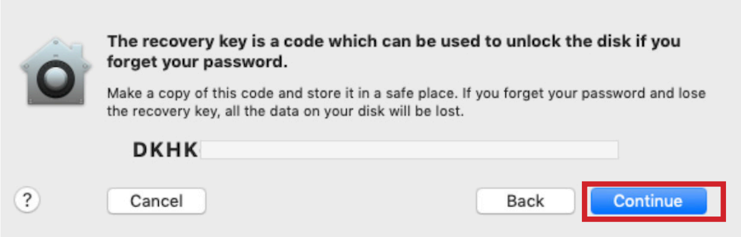


Your iCloud account can be used to unlock your disk and reset your password if you forget it.

If you do not want to use an iCloud account, you can create a recovery key and store it in a safe place to reset your password.

○ Set up my iCloud account to reset my password
● Create a recovery key and do not use my iCloud account

17. Take note of your recovery key (which is partially obscured in the following figure). Click Continue.

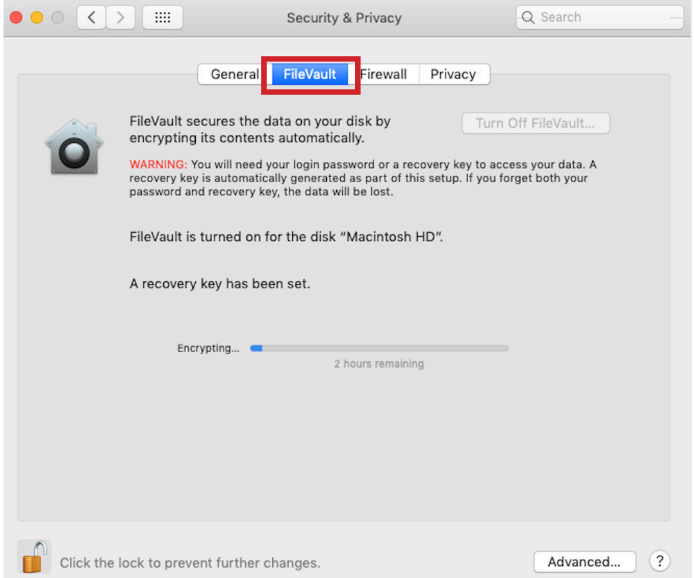


The recovery key is a code which can be used to unlock the disk if you forget your password.

Make a copy of this code and store it in a safe place. If you forget your password and lose the recovery key, all the data on your disk will be lost.

DKHK

18. Once you see an Encrypting progress bar (or for Mac computers with the Apple T2 Security Chip, the status of Encrypted will be immediate), quit System Preferences.



FileVault secures the data on your disk by encrypting its contents automatically.

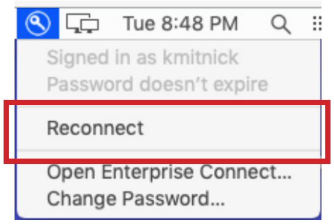
WARNING: You will need your login password or a recovery key to access your data. A recovery key is automatically generated as part of this setup. If you forget both your password and recovery key, the data will be lost.

FileVault is turned on for the disk "Macintosh HD".

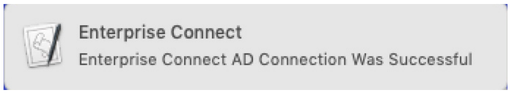
A recovery key has been set.

Click the lock to prevent further changes.

19. Click the Enterprise Connect menu bar status item and choose Reconnect.



20. Now that FileVault is enabled, the audit script will pass and the connection completed script will run. You will see the notification message below.



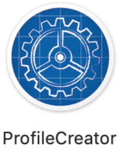
Enterprise Connect
Enterprise Connect AD Connection Was Successful

Section 8: Branding

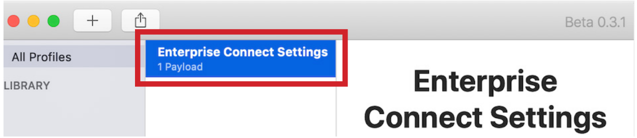
In this section we go over branding Enterprise Connect Notifications. In Enterprise Connect 2.0 you can customize the icon used in notifications, as well as the text used in the label for the “Username” field.

1. Use a logo of your choosing. Make sure the logo is 512 x 512 pixels in PNG, GIF, or JPG format for best results. This guide uses the sample path: /Library/Desktop\ Pictures/HCS.png.

2. Open ProfileCreator.



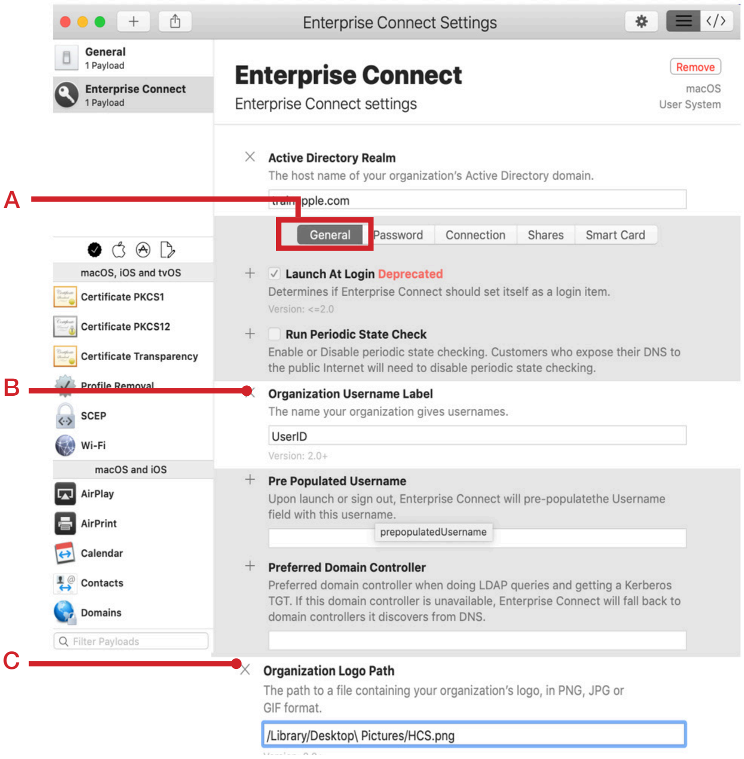
3. Double-click the Enterprise Connect Settings profile.



Enterprise Connect Settings

4. Follow these steps:

   A. Click the General tab.
   B. Next to Organization Username Label click Add (+) to enable this option, then enter: **UserID**.
   C. Next to Organization Logo click Add (+) to enable this option, then enter an appropriate value. This guide uses the example path: **/Library/Desktop\ Pictures/HCS.png**.



Enterprise Connect

Enterprise Connect settings

macOS
User System

Active Directory Realm
The host name of your organization's Active Directory domain.
trai pple.com

☑ Launch At Login Deprecated
Determines if Enterprise Connect should set itself as a login item.
Version: <=2.0

□ Run Periodic State Check
Enable or Disable periodic state checking. Customers who expose their DNS to the public Internet will need to disable periodic state checking.

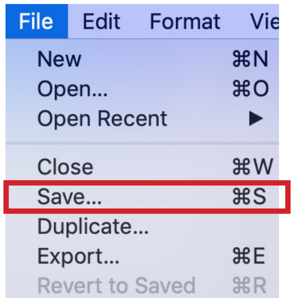
Organization Username Label
The name your organization gives usernames.
UserID
Version: 2.0+

Pre Populated Username
Upon launch or sign out, Enterprise Connect will pre-populatethe Username field with this username.
prepopulatedUsername

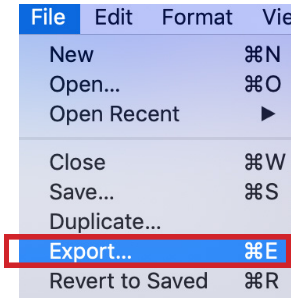
Preferred Domain Controller
Preferred domain controller when doing LDAP queries and getting a Kerberos TGT. If this domain controller is unavailable, Enterprise Connect will fall back to domain controllers it discovers from DNS.

Organization Logo Path
The path to a file containing your organization's logo, in PNG, JPG or GIF format.
/Library/Desktop\ Pictures/HCS.png

5. Choose File > Save.

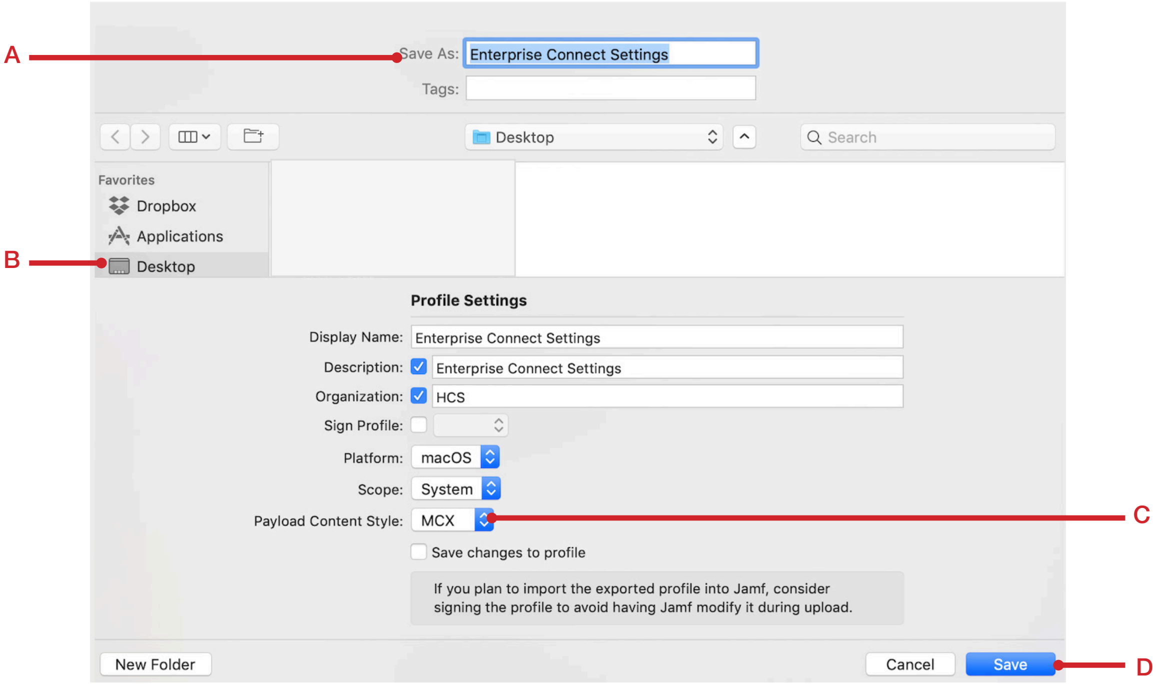


6. Choose File > Export.



7. Follow these steps:

A. In the Save As field, confirm the file name is **Enterprise Connect Settings**.
B. Confirm that the Desktop is the location to save the file in.
C. Click the Payload Content Style menu and choose MCX.
D. Click Save. When you are asked if you want to replace the existing file, click Replace.



Save As: Enterprise Connect Settings

Tags:

Profile Settings

Display Name: Enterprise Connect Settings

Description: ☑ Enterprise Connect Settings

Organization: ☑ HCS

Sign Profile: ☐

Platform: macOS

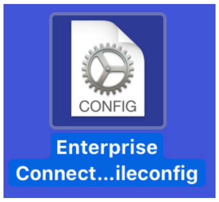
Scope: System

Payload Content Style: MCX

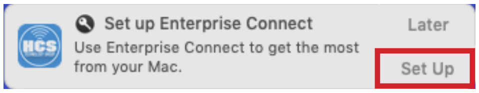
☐ Save changes to profile

If you plan to import the exported profile into Jamf, consider signing the profile to avoid having Jamf modify it during upload.

8. Double-click the configuration profile to install it. Enter your admin credentials when prompted and accept all installation and overwrite prompts.



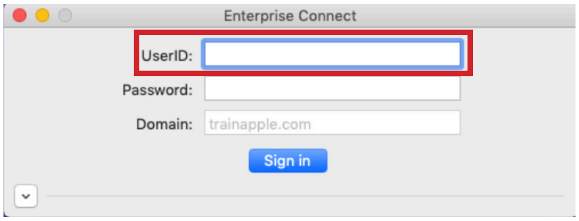
9. The quickest way to force a notification from Enterprise Connect is to login as a user that has never logged into Enterprise Connect. If you have an additional user on your Mac, log in as a different user. Otherwise open Systerm Preferences, use Users & Groups preferences to create a new user, then log in with this new user. You will be greeted with the message below. Click Set Up.



Set up Enterprise Connect

Use Enterprise Connect to get the most from your Mac.

10. The Username field now appears as UserID.



Enterprise Connect

UserID:

Password:

Domain: trainapple.com

11. Log out, then log in with the user account you used at the start of this guide.

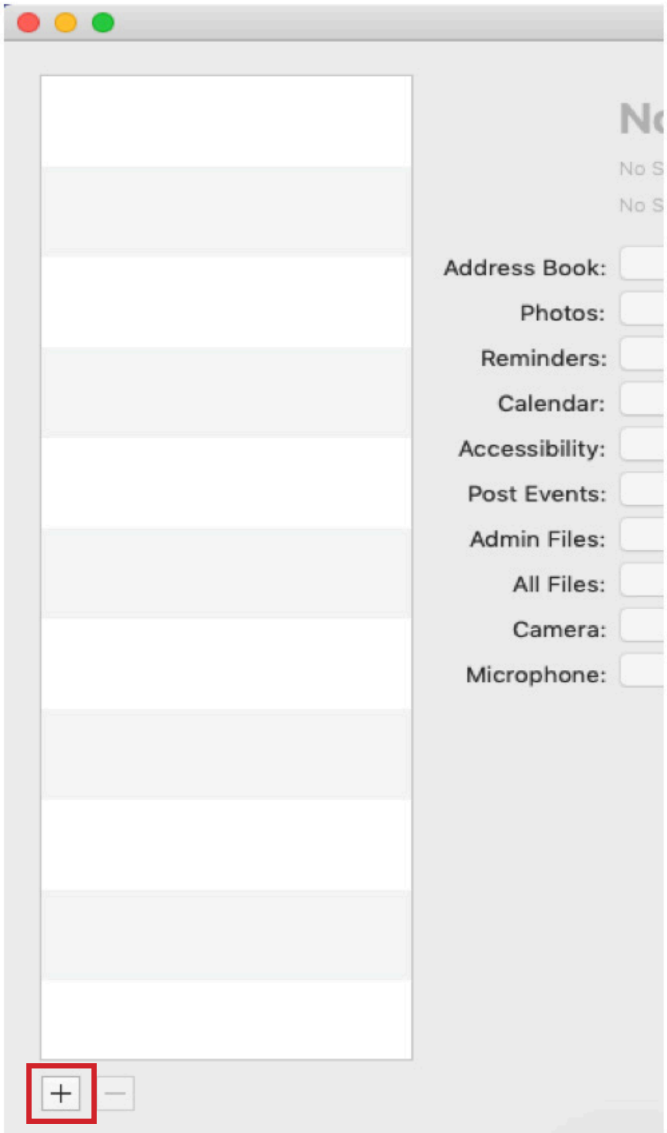
Section 9: Create a Privacy Preferences Policy Control Profile

Starting with macOS Mojave 10.14, apps must ask for user consent before they can perform certain tasks that impact user privacy. You can grant permissions to apps in advance by using a configuration profile that contains a Privacy Preferences Policy Control (PPPC) payload. This way, your users will not be prompted to grant permissions. In this section we will create a PPPC Profile for Enterprise Connect. This PPPC Profile will allow Enterprise Connect access to All files, System Events, SystemUIServer, and Finder.

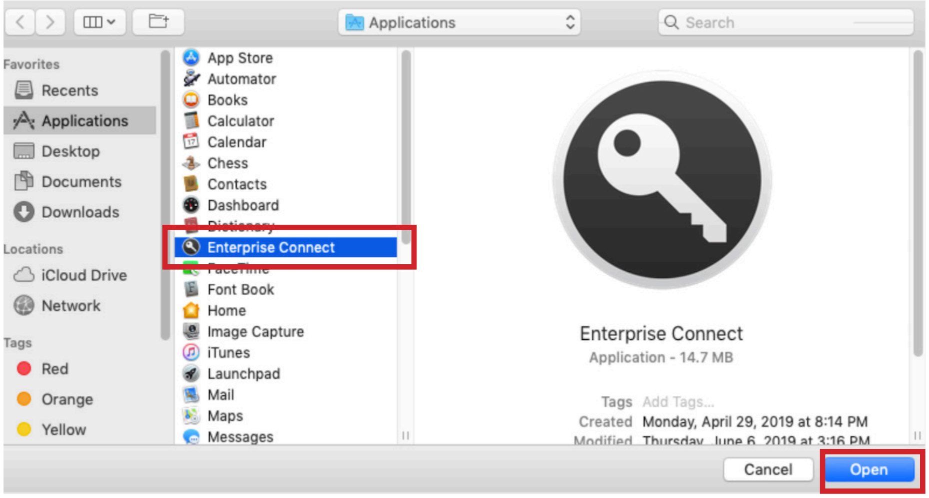
1. Open the PPPC Utility located in /Applications.

PPPC Utility

2. In the lower-left corner click Add (+).



3. Select Enterprise Connect then click Open.

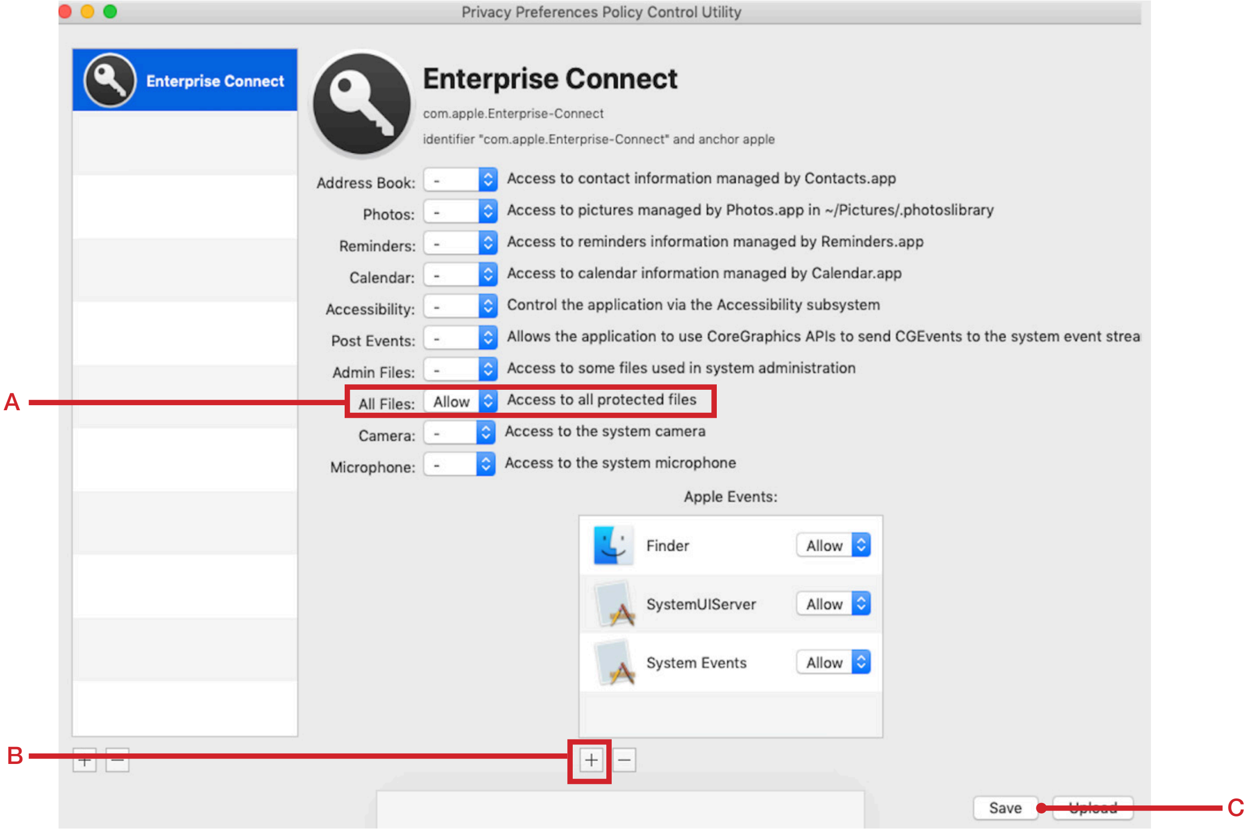


Enterprise Connect
Application - 14.7 MB

Tags Add Tags...
Created Monday, April 29, 2019 at 8:14 PM
Modified Thursday, June 6, 2019 at 3:16 PM

4. Follow these steps:

A. Click the All Files menu and choose Allow.
B. In the Apple Events Section, click Add (+), then select each of the following items, one at a time, and set them to Allow for Finder, SystemUIServer, and System Events.
C. Click Save.



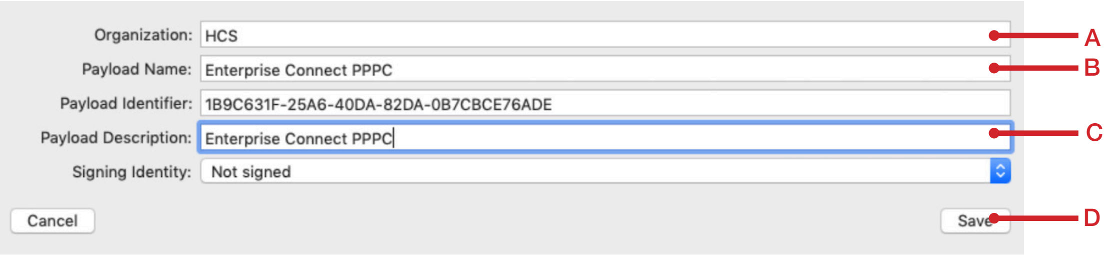
Enterprise Connect
com.apple.Enterprise-Connect
identifier "com.apple.Enterprise-Connect" and anchor apple

Address Book: - Access to contact information managed by Contacts.app
Photos: - Access to pictures managed by Photos.app in ~/Pictures/.photoslibrary
Reminders: - Access to reminders information managed by Reminders.app
Calendar: - Access to calendar information managed by Calendar.app
Accessibility: - Control the application via the Accessibility subsystem
Post Events: - Allows the application to use CoreGraphics APIs to send CGEvents to the system event strea
Admin Files: - Access to some files used in system administration
All Files: Allow Access to all protected files
Camera: - Access to the system camera
Microphone: - Access to the system microphone

Apple Events:
Finder Allow
SystemUIServer Allow
System Events Allow

5. Enter the following:

   A. Organization: Your organization name.
   B. Payload Name: **Enterprise Connect PPPC**.
   C. Payload Description: **Enterprise Connect PPPC**.
   D. Click Save.



Organization: HCS

Payload Name: Enterprise Connect PPPC

Payload Identifier: 1B9C631F-25A6-40DA-82DA-0B7CBCE76ADE

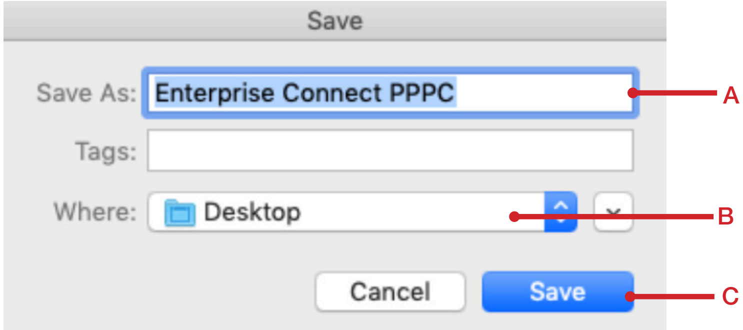
Payload Description: Enterprise Connect PPPC

Signing Identity: Not signed

4. Follow these steps:

   A. Name the file **Enterprise Connect PPPC**.
   B. Save to the Desktop.
   C. Click Save.

NOTE: We will upload this file to a Jamf Pro server in the next section. PPPC files MUST be deployed from an MDM server. You could upload the configuration profile directly from the PPPC utility application as well, but we will not do that for this guide.



Save As: Enterprise Connect PPPC

Tags:

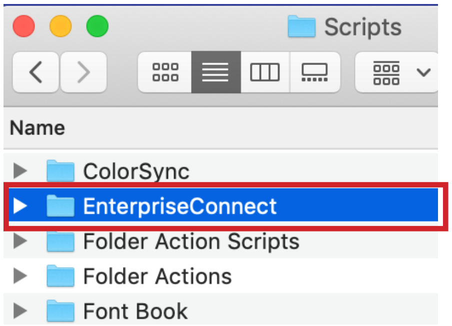
Where: Desktop

Section 10: Package Scripts for Jamf Pro Deployment

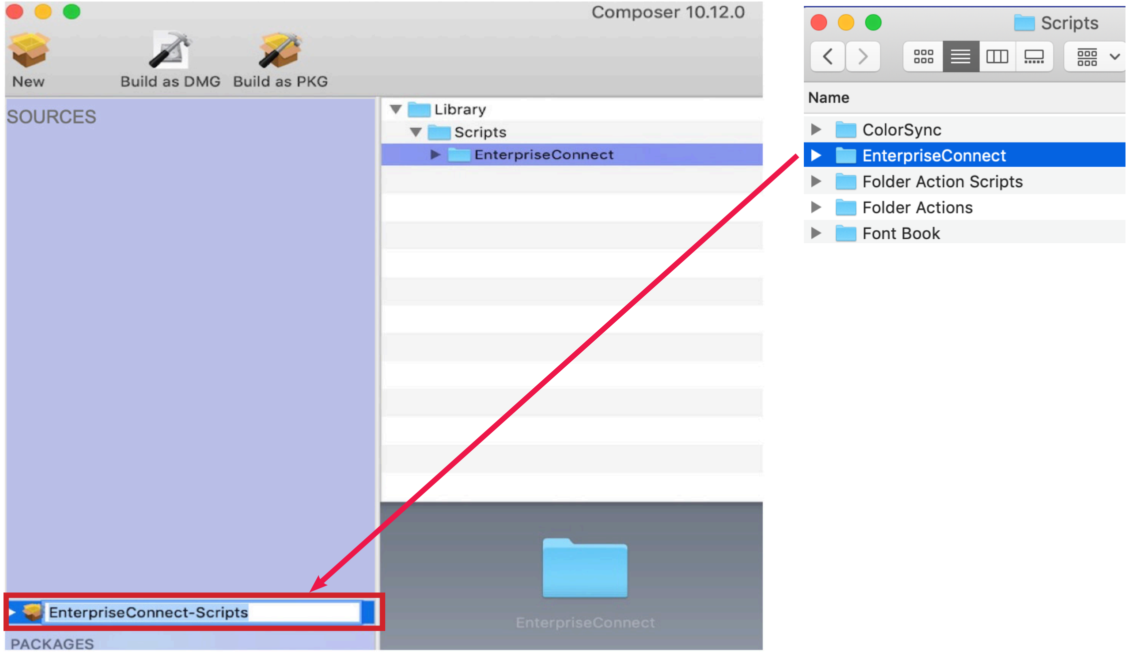
In this section we will use Composer to package the Enterprise Connect Scripts for deployment with Jamf Pro.

1. Open Composer located in /Applications/Jamf Pro. Authenticate with your admin credentials when prompted.

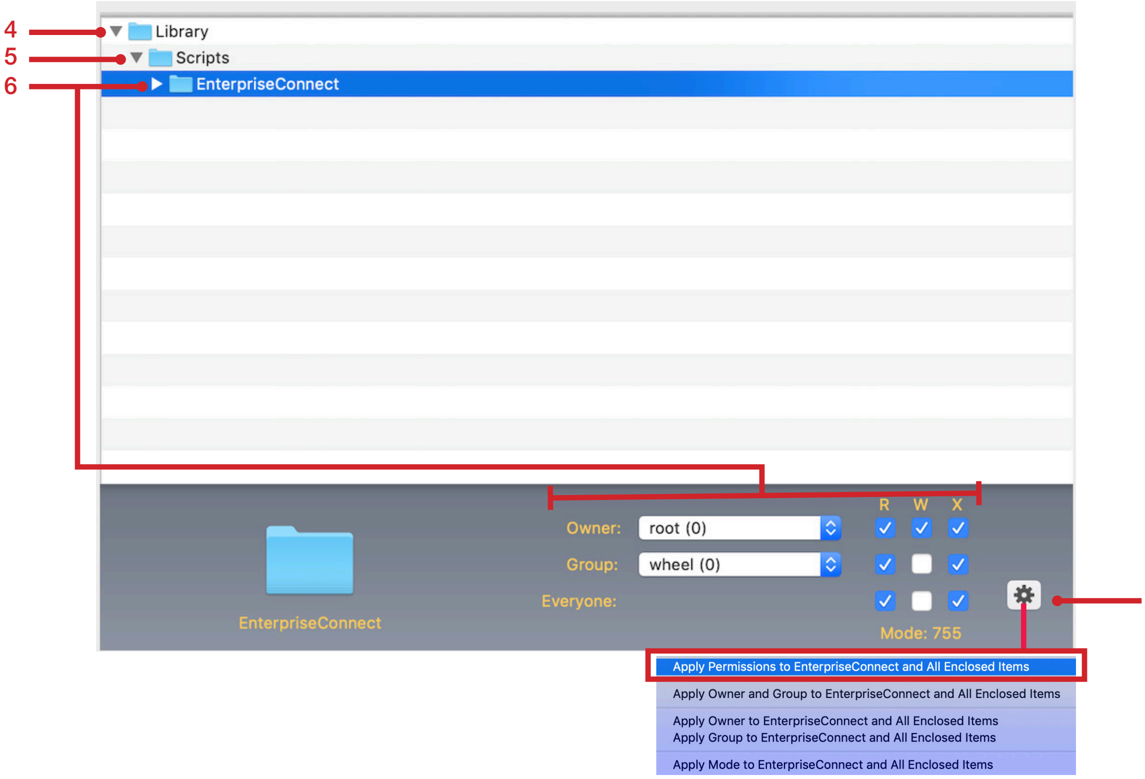
2. Navigate to the /Library/Scripts folder. You will see a folder called EnterpriseConnect which contains all the scripts we created in this guide.



3. Drag the EnterpriseConnect folder to the Sources section of Jamf Composer. In the Sources section of Composer, right-click the EnterpriseConnect package, then enter the name of it to **EnterpriseConnect-Scripts**, then press Enter to save the name change.



4. Select the Library folder on the right side of the window and click the disclosure triangle to expand the folder
5. Click the disclosure triangle for the Scripts folder to reveal the EnterpriseConnect folder.
6. Select the Enterprise connect folder and make sure the Owner is root, the Group is wheel, and the permissions are set to 755.
7. In the lower-right corner, click Action (looks like a gear) and choose Apply Permissions to EnterpriseConnect and All Enclosed Items.

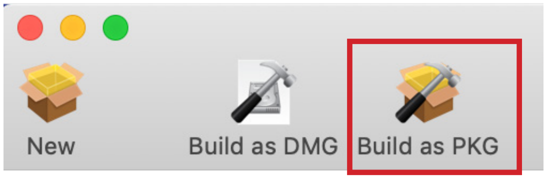

4
5
6
7
Library
Scripts
EnterpriseConnect
EnterpriseConnect
R W X
Mode: 755
Apply Permissions to EnterpriseConnect and All Enclosed Items
Apply Owner and Group to EnterpriseConnect and All Enclosed Items
Apply Owner to EnterpriseConnect and All Enclosed Items
Apply Group to EnterpriseConnect and All Enclosed Items
Apply Mode to EnterpriseConnect and All Enclosed Items

Owner: root (0) ☑ ☑ ☑

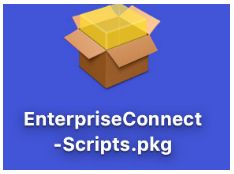
Group: wheel (0) ☑ □ ☑

Everyone: ☑ □ ☑

8. In the Composer toolbar, click Build as PKG and save the file to the Desktop when prompted.



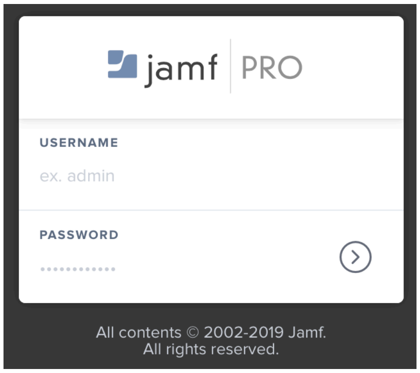
9. We will upload this package to the Jamf Pro server in the next section. Quit Composer.



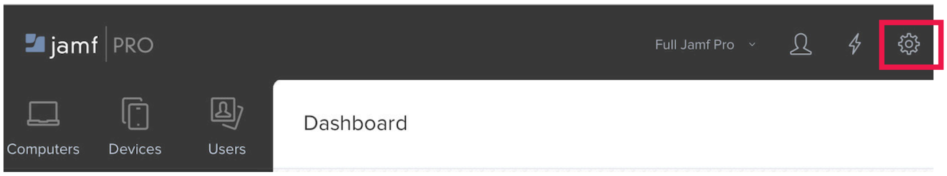
Section 11: Deploy Enterprise Connect with Jamf Pro

In this section we will configure Jamf Pro to deploy the Enterprise Connect application, the scripts package, and the Enterprise Connect Settings and PPPC profiles.

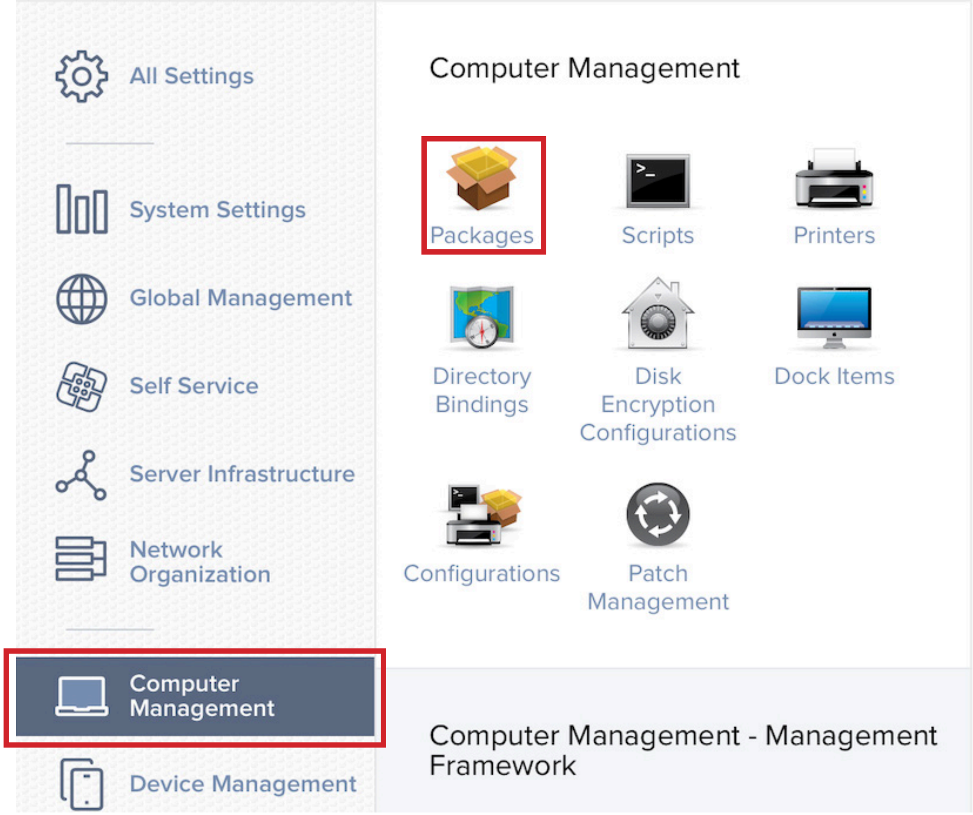
1. Use your web browser to log in to your Jamf Pro server.



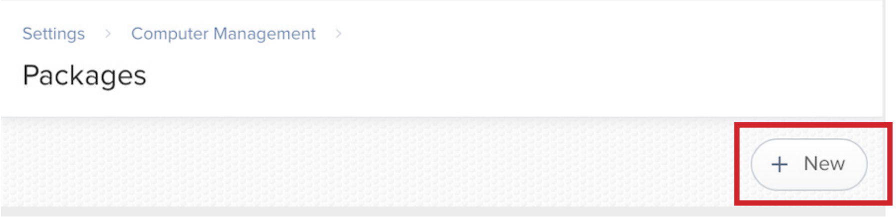
2. In the upper-right corner, click Settings (looks like a gear).



3. Select Computer Management, then select Packages.



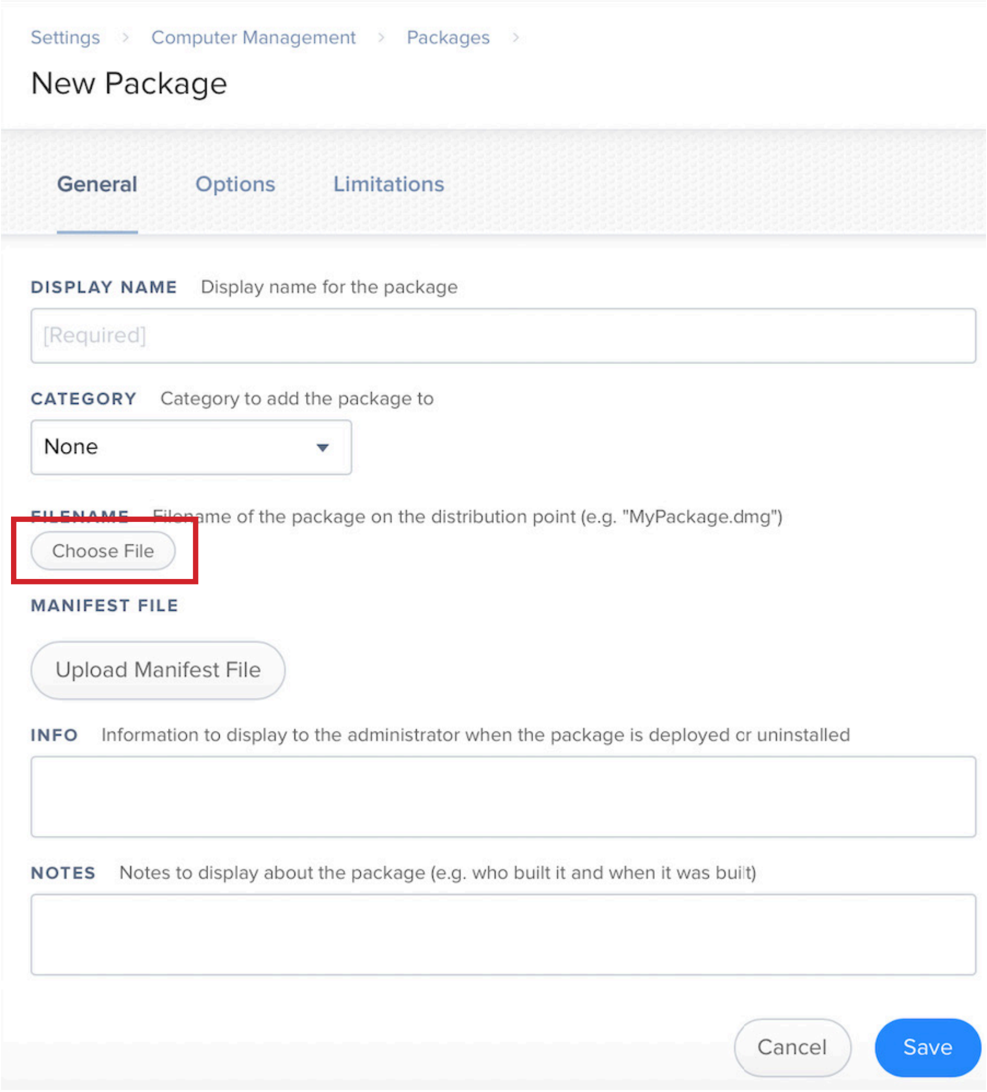
4. Click New.



Settings › Computer Management ›

Packages

5. Click Choose File.



Settings › Computer Management › Packages ›

New Package

DISPLAY NAME Display name for the package

[Required]

CATEGORY Category to add the package to

None

FILENAME Filename of the package on the distribution point (e.g. "MyPackage.dmg")

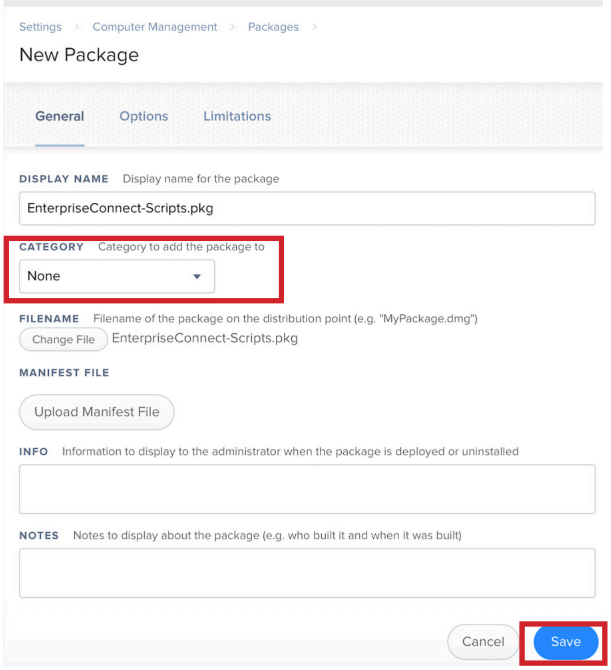
MANIFEST FILE

INFO Information to display to the administrator when the package is deployed cr uninstalled

NOTES Notes to display about the package (e.g. who built it and when it was built)

6. In the Open File dialog, select the EnterpriseConnect-Scripts.pkg file located on the Desktop then click Choose.

7. If necessary, choose a Category then click Save to start the upload process.



Settings > Computer Management > Packages >

New Package

General Options Limitations

DISPLAY NAME Display name for the package

EnterpriseConnect-Scripts.pkg

CATEGORY Category to add the package to

None

FILENAME Filename of the package on the distribution point (e.g. "MyPackage.dmg")

EnterpriseConnect-Scripts.pkg

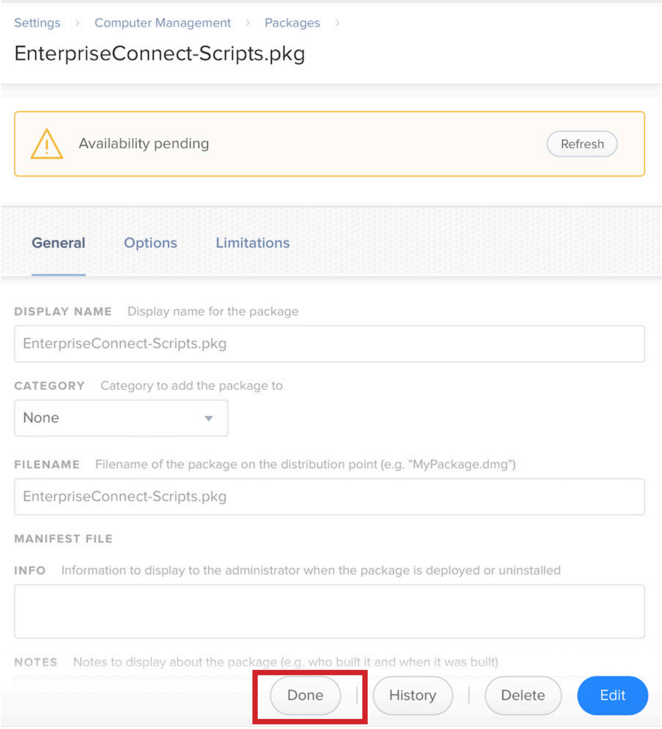
MANIFEST FILE

INFO Information to display to the administrator when the package is deployed or uninstalled

NOTES Notes to display about the package (e.g. who built it and when it was built)

8. Click Done.

9. Follow steps 4 - 8 to upload the Enterprise Connect package you recently created to the Jamf Pro Server.



Settings > Computer Management > Packages >

EnterpriseConnect-Scripts.pkg

Availability pending

General Options Limitations

DISPLAY NAME Display name for the package

EnterpriseConnect-Scripts.pkg

CATEGORY Category to add the package to

None

FILENAME Filename of the package on the distribution point (e.g. "MyPackage.dmg")

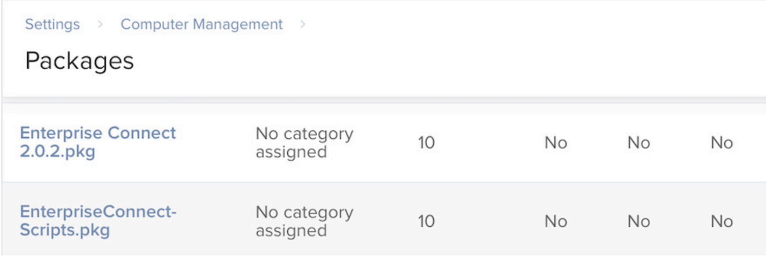
EnterpriseConnect-Scripts.pkg

MANIFEST FILE

INFO Information to display to the administrator when the package is deployed or uninstalled

NOTES Notes to display about the package (e.g. who built it and when it was built)

10. Confirm that both packages are on your Jamf Pro Server.

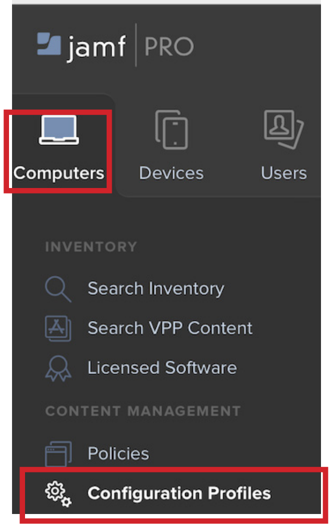


Settings › Computer Management ›

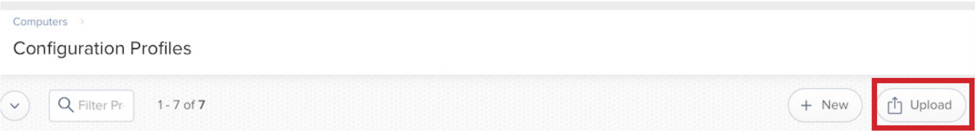
Packages

Enterprise Connect 2.0.2.pkg	No category assigned	10	No	No	No
EnterpriseConnect-Scripts.pkg	No category assigned	10	No	No	No

11. Click the Computers icon, then select Configuration Profiles.



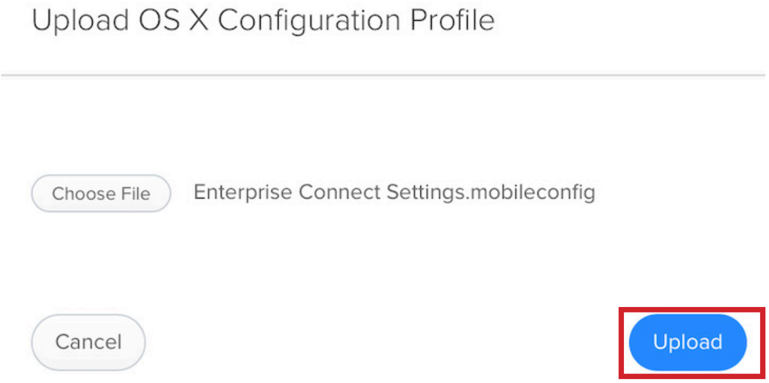
12. Click Upload.



13. Click Choose File.

14. Navigate to the Enterprise Connect Settings.mobileconfig on your Desktopthen click Choose.

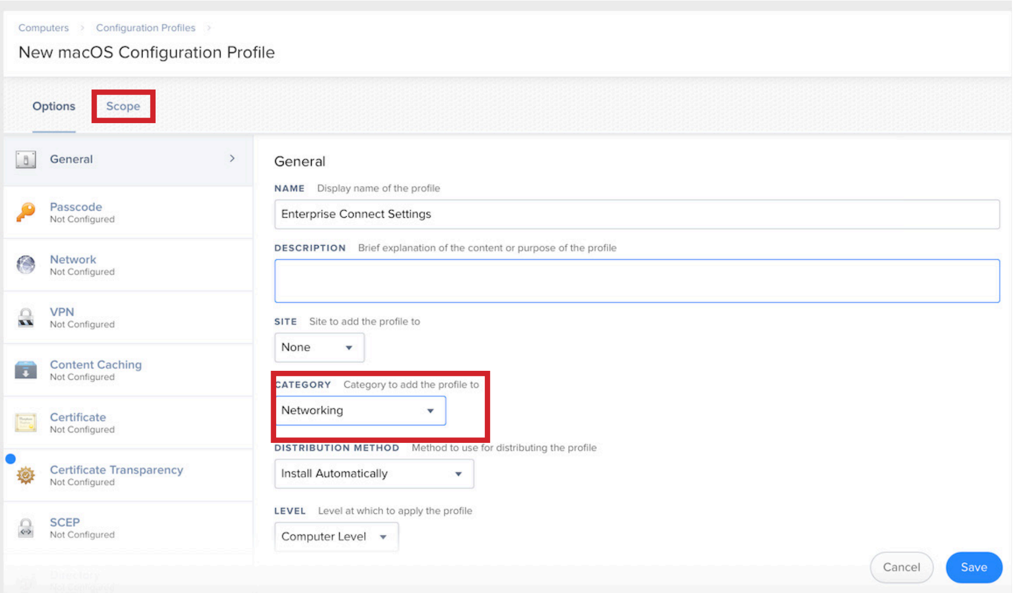
15. Click Upload.



Upload OS X Configuration Profile

Choose File Enterprise Connect Settings.mobileconfig

16. Optionally, click the Category menu then choose an appropriate category, then click the Scope tab.



New macOS Configuration Profile

General

NAME Display name of the profile: Enterprise Connect Settings

DESCRIPTION Brief explanation of the content or purpose of the profile:

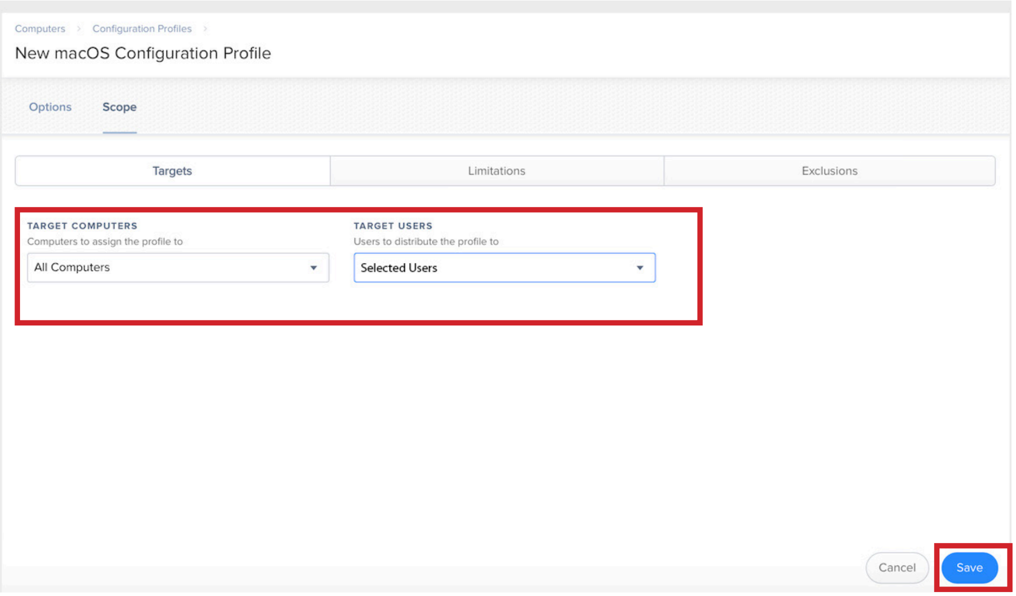
SITE Site to add the profile to: None

CATEGORY Category to add the profile to: Networking

DISTRIBUTION METHOD Method to use for distributing the profile: Install Automatically

LEVEL Level at which to apply the profile: Computer Level

17. As an example, click the Scope tab, click the Target Computers menu and choose All Computers. In a production environment be sure to scope this to only Mac computers that are running macOS 10.14 or higher. Follow steps 13 - 17 to upload the Enterprise Connect PPPC.mobileconfig file located on your desktop. Click Save.

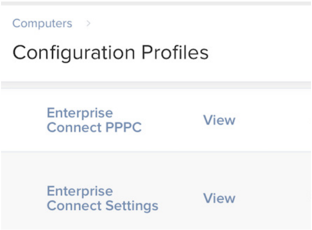


New macOS Configuration Profile

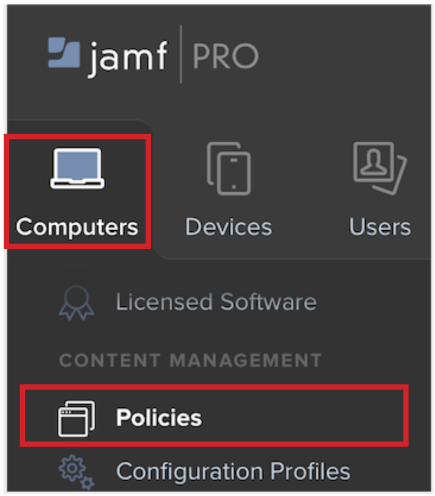
TARGET COMPUTERS Computers to assign the profile to: All Computers

TARGET USERS Users to distribute the profile to: Selected Users

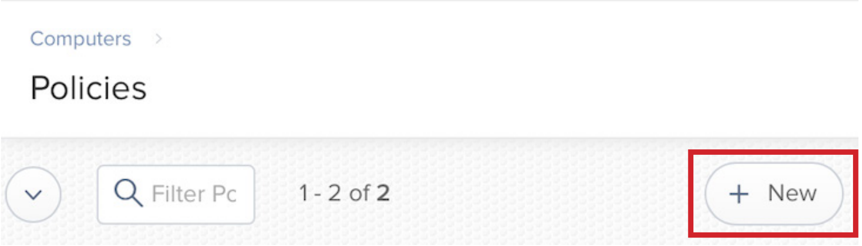
18. Confirm that you have both configuration profiles on the Jamf Pro server.



19. Click the Computers icon, then select Policies.

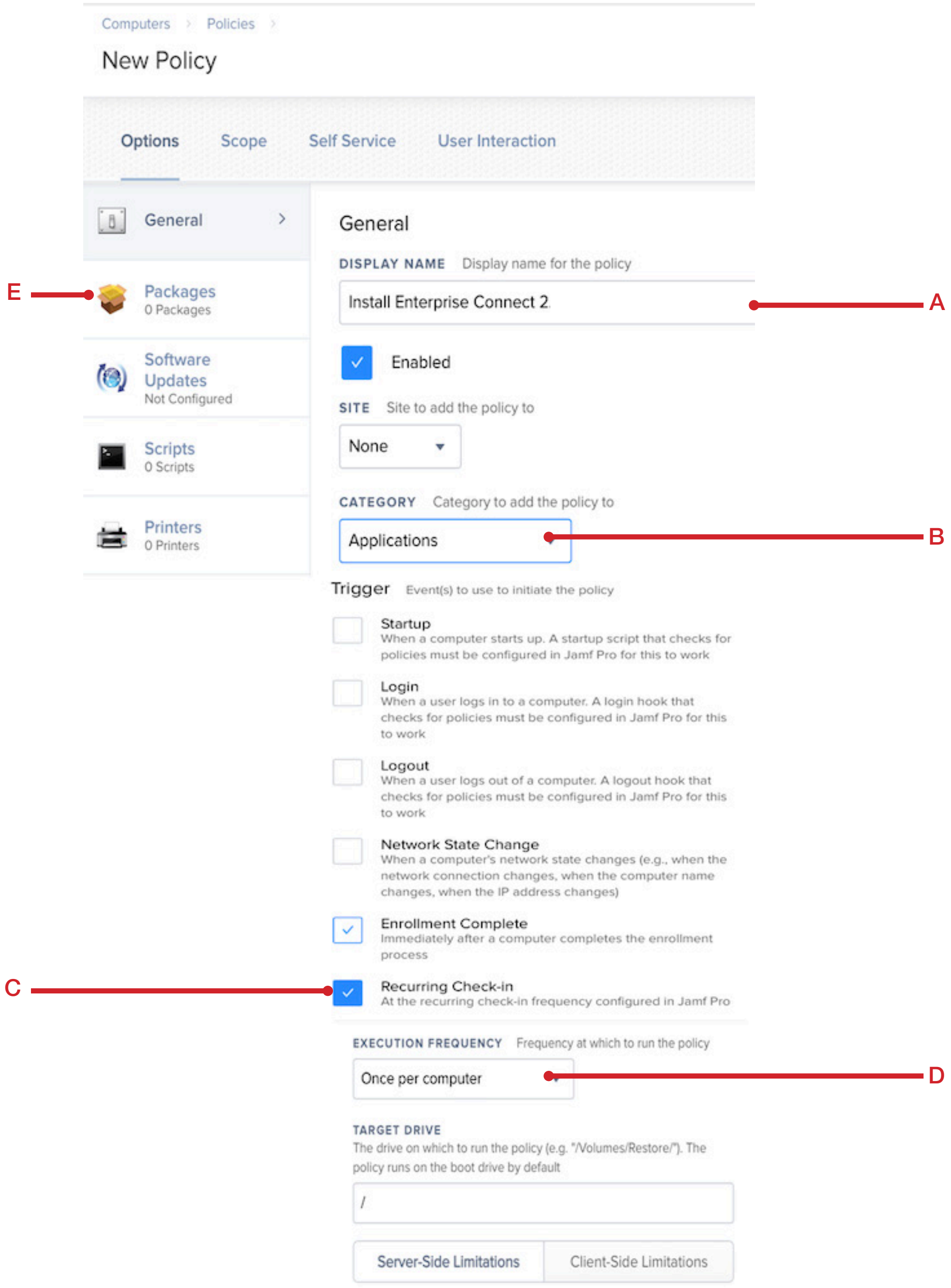


20. Click New.



21. Do the following:

A. In the Display Name field, enter a name. This guide uses **Install Enterprise Connect 2**.
B. Optionally, choose a Category.
C. Make sure Recurring Check-in is selected.
D. Click the Execution Frequency menu and choose “Once per computer.”
E. In the list of payloads, select Packages.



New Policy

General

DISPLAY NAME Display name for the policy

Install Enterprise Connect 2

☑ Enabled

SITE Site to add the policy to

None

CATEGORY Category to add the policy to

Applications

Trigger Event(s) to use to initiate the policy

☐ Startup
When a computer starts up. A startup script that checks for policies must be configured in Jamf Pro for this to work

☐ Login
When a user logs in to a computer. A login hook that checks for policies must be configured in Jamf Pro for this to work

☐ Logout
When a user logs out of a computer. A logout hook that checks for policies must be configured in Jamf Pro for this to work

☐ Network State Change
When a computer's network state changes (e.g., when the network connection changes, when the computer name changes, when the IP address changes)

☑ Enrollment Complete
Immediately after a computer completes the enrollment process

☑ Recurring Check-in
At the recurring check-in frequency configured in Jamf Pro

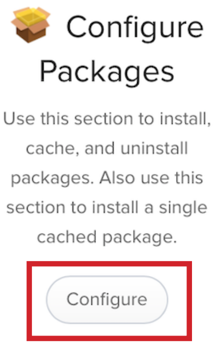
EXECUTION FREQUENCY Frequency at which to run the policy

Once per computer

TARGET DRIVE
The drive on which to run the policy (e.g. "/Volumes/Restore/"). The policy runs on the boot drive by default

/

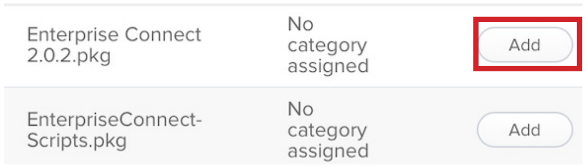
22. Click Configure.



Configure Packages

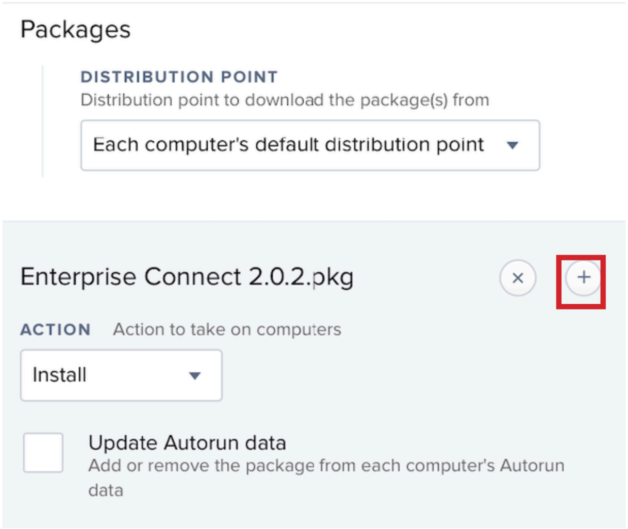
Use this section to install, cache, and uninstall packages. Also use this section to install a single cached package.

23. Next to your Enterprise Connect package, click Add.



Enterprise Connect 2.0.2.pkg	No category assigned	Add
EnterpriseConnect-Scripts.pkg	No category assigned	Add

24. Next to the package that you just added, click Add (+) to add another package.



Packages

DISTRIBUTION POINT
Distribution point to download the package(s) from

Each computer's default distribution point

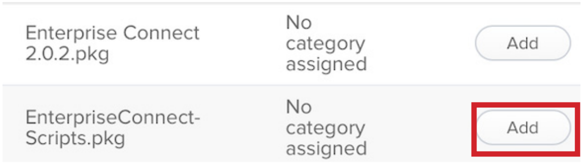
Enterprise Connect 2.0.2.pkg

ACTION Action to take on computers

Install

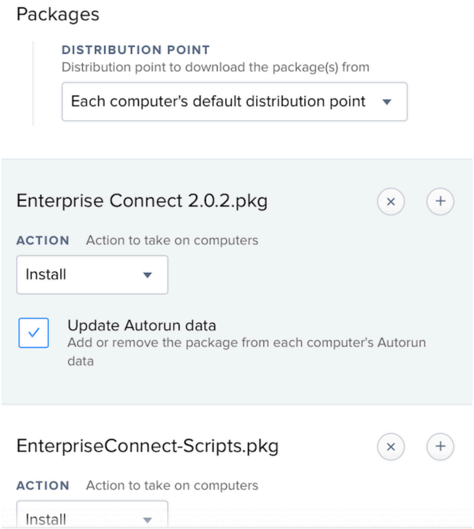
□ Update Autorun data
Add or remove the package from each computer's Autorun data

25. Next to EnterpriseConnectScripts.pkg, click Add.



Enterprise Connect 2.0.2.pkg	No category assigned	Add
EnterpriseConnect-Scripts.pkg	No category assigned	Add

26. Confirm that Jamf Pro displays both packages.



Packages

DISTRIBUTION POINT
Distribution point to download the package(s) from

Each computer's default distribution point

Enterprise Connect 2.0.2.pkg

ACTION Action to take on computers

Install

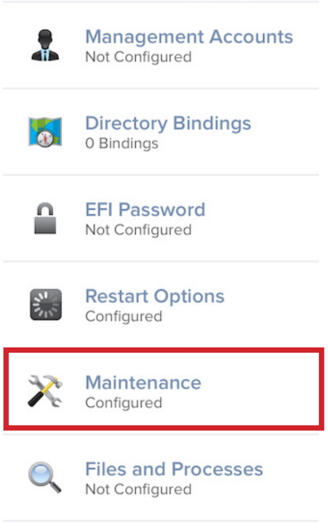
☑ Update Autorun data
Add or remove the package from each computer's Autorun data

EnterpriseConnect-Scripts.pkg

ACTION Action to take on computers

Install

27. Select Maintenance.



Management Accounts
Not Configured

Directory Bindings
0 Bindings

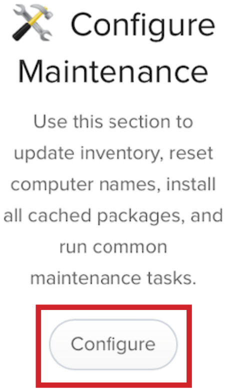
EFI Password
Not Configured

Restart Options
Configured

Maintenance
Configured

Files and Processes
Not Configured

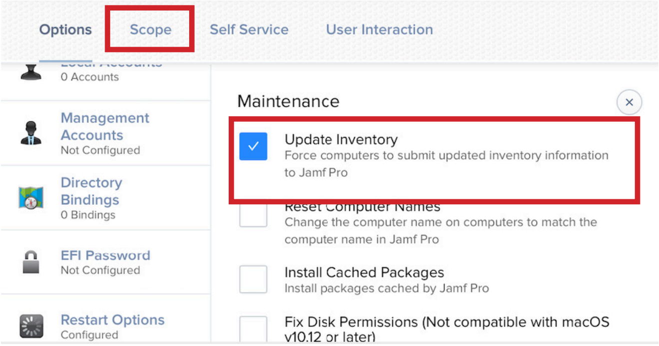
28. Click Configure.



Configure Maintenance

Use this section to update inventory, reset computer names, install all cached packages, and run common maintenance tasks.

29. Confirm that the Update Inventory checkbox is selected, then click the Scope tab.



Maintenance

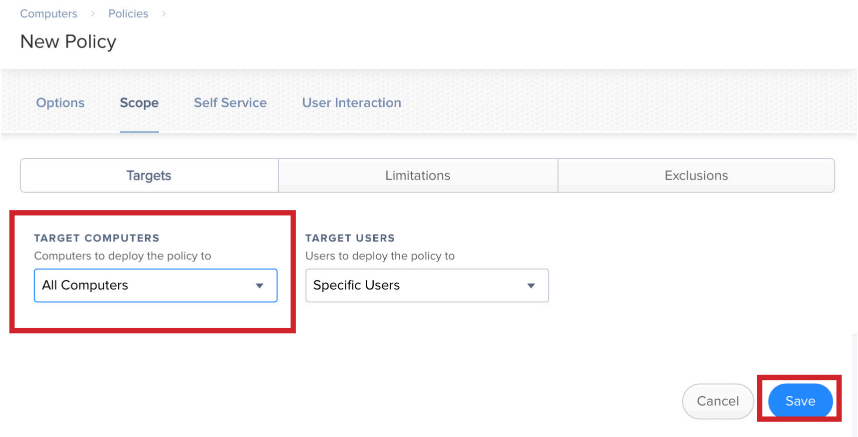
☑ Update Inventory
Force computers to submit updated inventory information to Jamf Pro

□ Reset Computer Names
Change the computer name on computers to match the computer name in Jamf Pro

□ Install Cached Packages
Install packages cached by Jamf Pro

□ Fix Disk Permissions (Not compatible with macOS v10.12 or later)

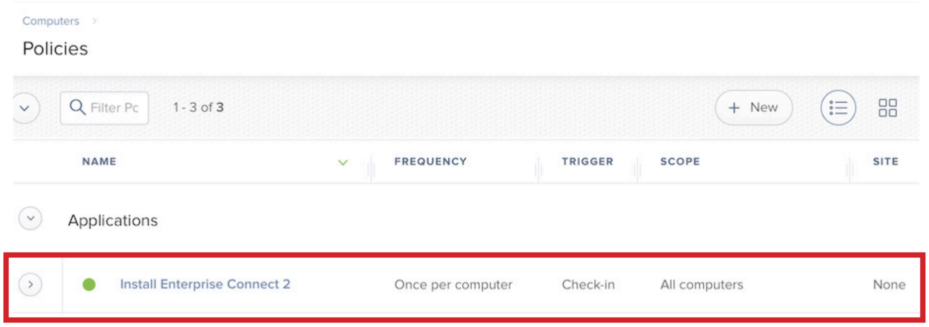
30. For this guide, select All Computers, then click Save, then click Done.



TARGET COMPUTERS
Computers to deploy the policy to
All Computers

TARGET USERS
Users to deploy the policy to
Specific Users

31. Confirm that Jamf Pro displays your policy with the correct name, frequency, trigger, and scope.



NAME	FREQUENCY	TRIGGER	SCOPE	SITE
Applications				
Install Enterprise Connect 2	Once per computer	Check-in	All computers	None

31. Log out of your Jamf Pro server.

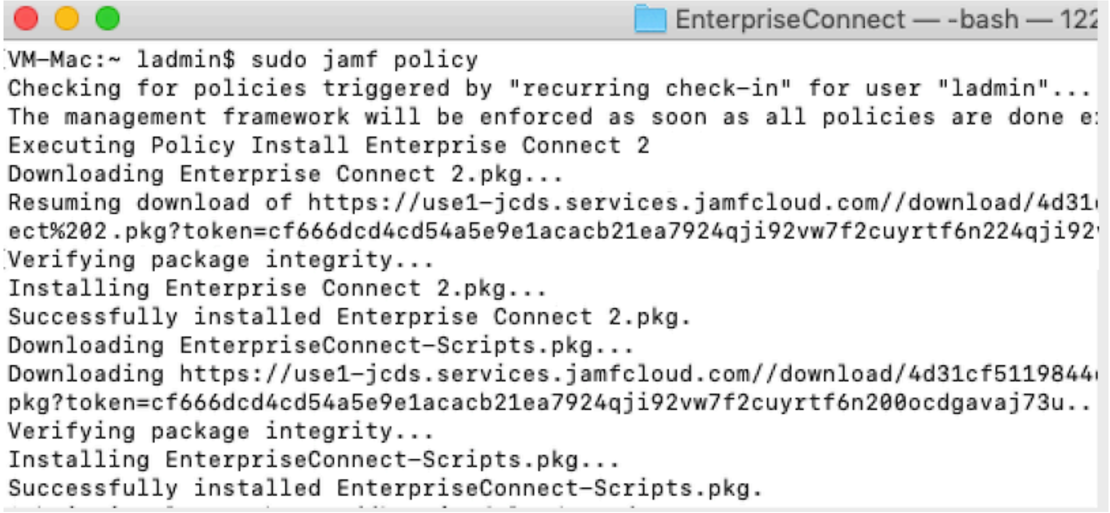
Section 12: Test the Enterprise Connect Deployment from Jamf Pro

In this section we will test an Enterprise Connect Deployment using Jamf Pro.

1. Log in to a Mac that is enrolled in Jamf Pro but does not have Enterprise Connect installed.
2. Open Terminal. Run the following command to force a check-in with Jamf Pro.

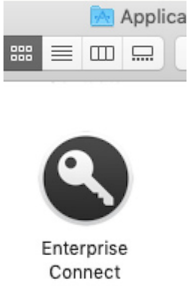
   ```
   sudo jamf policy
   ```

   Enter your password when prompted.

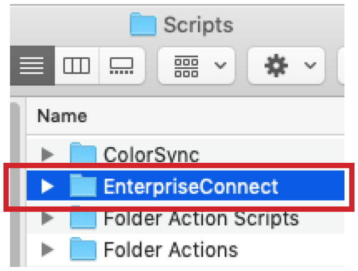


```
VM-Mac:~ ladmin$ sudo jamf policy
Checking for policies triggered by "recurring check-in" for user "ladmin"...
The management framework will be enforced as soon as all policies are done e
Executing Policy Install Enterprise Connect 2
Downloading Enterprise Connect 2.pkg...
Resuming download of https://use1-jcds.services.jamfcloud.com//download/4d31
ect%202.pkg?token=cf666dcd4cd54a5e9e1acacb21ea7924qji92vw7f2cuyrtf6n224qji92
Verifying package integrity...
Installing Enterprise Connect 2.pkg...
Successfully installed Enterprise Connect 2.pkg.
Downloading EnterpriseConnect-Scripts.pkg...
Downloading https://use1-jcds.services.jamfcloud.com//download/4d31cf5119844
pkg?token=cf666dcd4cd54a5e9e1acacb21ea7924qji92vw7f2cuyrtf6n200ocdgavaj73u..
Verifying package integrity...
Installing EnterpriseConnect-Scripts.pkg...
Successfully installed EnterpriseConnect-Scripts.pkg.
```

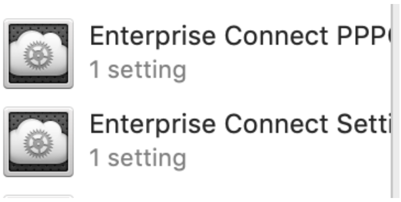
3. If your test Mac already automatically checked in with your Jamf Pro server and ran the policy you just created, you may see a message like “No policies were found for the ‘recurring check-in’ trigger,” in Terminal. If your test Mac didn’t automatically run the policy yet, the ‘sudo jamf policy’ command triggers the policy to install Enterprise Connect in /Applications and place the EnterpriseConnect folder in /Library/Scripts. In the Finder, choose Go > Applications and confirm that Enterprise Connect is installed to make sure these items are installed.



4. In the Finder, choose Go > Go to Folder, enter **/Library/Scripts**, click Go, and confirm that the EnterpriseConnect folder is displayed.



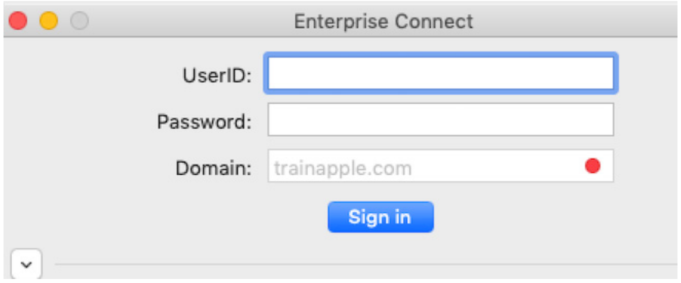
5. Open System Preferences and if the Profiles preference isn't already displayed, choose View > Profiles.
6. Confirm that the Profiles preferences displays the two profiles that are automatically installed: Enterprise Connect Settings and Enterprise Connect PPPC.



Enterprise Connect PPP
1 setting

Enterprise Connect Setti
1 setting

7. Open Enterprise Connect and log in with your Active Directory credentials. Confirm all is working.



Enterprise Connect

UserID:

Password:

Domain: trainapple.com

This completes the guide.