



How to Deploy Cisco AnyConnect with Jamf Pro



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The purpose of this guide is to configure all the required items for a silent installation of Cisco AnyConnect using Jamf Pro. A custom installer package and configuration profile will be used to silence prompts for System Extensions, Socket Filter messages, and Notifications. This will allow for an installation without prompting users to accept or allow any messages during and after the installation of Cisco AnyConnect.

We will also cover creating a xml file that can be used to choose what apps get installed as part of the Cisco AnyConnect bundle as well as providing a custom configuration file so users can get up and running without having to add any additional server information when connecting to the VPN.

To follow along with this guide you will need the following:

- Cisco AnyConnect installer. This guide will use version 4.10
- Jamf Composer for creating packages.
- A Mac computer running macOS Monterey enrolled in Jamf Pro. This guide will use version macOS Monterey 12.3.1 and Jamf Pro 10.37.2
- Administrative access to a Jamf Pro server.
- Sample files for this guide can be downloaded here: https://hcsonline.com/HCSfiles/AnyConnect_Sample_Files.zip
- Once downloaded, unzip the file and place the contents on your Desktop.



Section 1: Creating an XML Choice Installation File

This section is optional and is meant to explain how XML choice files work. If you are already familiar with creating and working with XML choice installation files you can move on to the next section. If you downloaded the sample files for this guide, there is a pre formatted XML file named anyconnect_ choices.xml ready for use with this guide. We recommend using the sample file and editing it to your needs.

To follow along with this section, you need a copy of your Cisco AnyConnect installation file. This guide will use version 4.10 which downloads as a DMG file. Once downloaded, place the DMG on your Desktop as we will use the Desktop in some file paths throughout this section.

1. Double click the anyconnect-macos.dmg file to mount it.



2. You are presented with the window below. Do NOT install AnyConnect. Leave this window open as we will need it in a later step.





3. This purpose of this step is to show you what choices are available when installing Cisco AnyConnect from the GUI. This is an informational step and nothing needs to be done for this step when following this guide. The Cisco AnyConnect installer package contains a myriad of applications that can either be installed or excluded from the install based on your needs. When installing via the GUI, you're presented with a window where you can select and deselect the apps that you want to install shown below.

🗧 😑 👘 😺 😜 Install AnyConnect Secure Mobility Client				8
	Custom Install on "Macintosh HD"			
 Introduction License Destination Select Installation Type Installation Summary 	Package Name VPN AMP Enabler Diagnostics and Reporting Tool Posture ISE Posture Network Visibility Umbrella Roaming Security	Action Install Install Install Install Install Install Install	Size 53.5 MB 1.4 MB 10.8 MB 67.5 MB 8.1 MB 12.9 MB 14.7 MB	
cisco	Space Required: 168.8 MB	Remaining: Go Back	469.34 GB Continue	

What if you wanted to automate the installation of Cisco AnyConnect and exclude some apps using the command line? How can that be achieved?

macOS includes a binary located in /usr/sbin called installer. The installer command supports a flag called **-app1yChoiceChangesXML**. This will allow you to create an XML file with the items that you want to include when installing Cisco AnyConnect from the command line. For example, if you only wanted to install the VPN app, you could configure your XML file to only include the VPN app. In order to find out what choices are supported by Cisco AnyConnect, the **installer** command has another flag called **-showChoicesXML**.

4. Open Terminal located in /Applications/Utilities.



Terminal



5. If you run the command below, it will output all the XML key value pairs that are supported by Cisco AnyConnect to your Desktop.

NOTE: The section of the command below that is in red is a drag and drop of the AnyConnect. pkg file from the AnyConnect dmg that we mounted on the Desktop in step 2 of this guide. Your version number may vary.

/usr/sbin/installer -showChoicesXML -pkg /Volumes/AnyConnect\ 4.10.04065/
AnyConnect.pkg -target / > -/Desktop/anyconnect_choices.xml

6. Open the anyconnect_choices.xml file to examine the key value pairs.



7. As we examine the file, you will notice keys named childitems that contain an additional key named choiceDescription. Each app is identified by its choiceIdentifier key and its installation status is identified by the choiceIsSelected key. If you look at the choiceIdentifier key, which is in blue text, you will see the choice is for the VPN app, which is in red text. If you look at the choiceIsSelected key, which is in blue, you will see an integer of 0 which means the VPN app will NOT be installed. If the integer was set to 1, then the VPN app would be installed. The integer is what decides if an app will be installed. 0 means don't install and 1 means install.

Close this file when you're done examining it.



In the next section, we will go over creating a custom Cisco AnyConnect installer package that will apply the anyconnect_choices.xml file and a anyconnect_profile.xml settings file that will include the VPN server information.



Section 2: Creating a custom Cisco AnyConnect Installer Package

To follow along with this section, you will need download the sample files using the link in the beginning of this guide, Jamf Composer, and your Cisco AnyConnect installation file.

1. Open Composer located in the /Applications/Jamf Pro folder.



Composer

2. Click Cancel at the screen below.

Choose a method to	create your	package:
--------------------	-------------	----------

io Monitoring Installation			0	
📩 Operating System	New 9 Medified	Manitar File	Normal Coonshot	
Build OS Package	Snapshot	System Changes	Normai Shapshot	
🍫 Package Manifests		, ,		
> Pre-Installed Software User Environment				
	Take a s modifie and the	snapshot that watches fi d. A snapshot will be tal n the two snapshots wil	or new files, as well as any f ken before and after the inst I be compared.	iles that are allation process,
Cancel			Previous	Next

3. Double click the anyconnect DMG file.

NOTE: If you did not skip the first section of this guide, this dmg may already be mounted on your Desktop.





4. Drag the AnyConnect.pkg file to your Desktop.

	🖄 AnyConnect 4.10.04065
	ດໄມໄມ cisco
	AnyConnect.pkg
	Profiles
Any	Connect Secure Mobility Client

5. Confirm the file is on the Desktop. We will use it later in the guide.



6. Navigate back to the Finder, click the Go menu and select Go to Folder.

v G	90	Window	Help	
В	Bac	k	¥ [
F	orv	vard	ቻ]	
S	Sele	ect Startup D	isk 🔂 🛪 🛦	
(Ð	Recents		
	ß	Documents	公 光 O	
6		Desktop		
(€	Downloads	くまし	
1	£	Home	心 ж H	
1		Computer		
(0	AirDrop		
(₽	Network		
6	\supset	iCloud Drive	· 슈뷰 I	
E	_ e	Shared	 ት ж S	
	Å	Applications	6 ස A	
Ś	*	Utilities		
R	lec	ent Folders	>	
6	Go t	o Folder		
C	on	nect to Serve	er ж қ	



7. Enter /tmp in the field, then double-click the private > tmp link.

/tmp	8
Go to:	
private → tmp	

8. Move the tmp folder to the left side of your desktop. Open the AnyConnect Sample Files folder on your Desktop and move it to the right of the tmp folder so they are side by side. Drag the anyconnect_choices.xml and anyconnect_profile.xml files from the AnyConnect Sample Files folder into the tmp folder.

< > tmp	< > AnyConr	nect Sample Files	≡≎ ∽ ₾
Name		Any	Connect Sample Files
> 💼 com.apple.launchd.cD21Sqe5OV	Name	^ 1	Date Modified
	📄 anyconnect_choi	ices.xml	Apr 20, 2022 at 3:27 PM
	🛛 📄 anyconnect_prof	ile.xml	Apr 20, 2022 at 8:34 PM
	PostinstallCisco	AnyConnect.sh	May 11, 2022 at 9:59 AM

NOTE: The sample anyconnect_profile.xml file should be edited to your needs before creating the package. This file contains information related to your organization. For example, you can include the hostname of the VPN server for your organization so it pre populates when the AnyConnect VPN software is open. There are a few ways to create this file:

A. If you're comfortable with xml, you can edit the sample file to your needs.

- B. If you already have a Mac computer that is configured with all the required AnyConnect settings, you can copy the xml settings file located in /opt/cisco/anyconnect/profile/
- C. If you have a Windows PC, Cisco has an AnyConnect Profile Editor Application that you can use to create a profile. More on that here:

https://www.cisco.com/c/en/us/td/docs/security/vpn_client/anyconnect/anyconnect40/ administration/guide/b_AnyConnect_Administrator_Guide_4-0/anyconnect-profile-editor.html

Make sure you have your settings files configured to your needs before continuing to step 9.

9. Confirm the anyconnect_choices.xml and anyconnect_profile.xml files are in the tmp folder.

< > tmp
Name
anyconnect_choices.xml
> com.apple.launchd.cD21Sqe5OV



10. Drag the anyconnect_choices.xml and anyconnect_profile.xml files from the tmp folder to the SOURCES section of Composer.

< > tmp	• • Composer 10.38.0	New Buil
Name	> anyconnect_choices.xml	
anyconnect_choices.xml	PACKAGES	
> 🚞 com.apple.launchd.cD21Sqe5OV		
	Nothing S	

11. In the SOURCES section of Composer select the anyconnect_choices.xml file and rename it to AnyConnect-4.10 or whatever version you are using.

• • • Composer 10.38.0				Q Search	Queert
	New	Build as DMG	Build as PKG		Search
SOURCES					
AnyConnect-4.10					
PACKAGES					
				_	
				\$	
				0	
Nothing Selecte					



12. Expand the private folder then expand the tmp folder. You will see the two xml files named anyconnect_choices.xml and anyconnect_profile.xml.

Composer 10.38	.0 💗	A	2	Q Search
SOURCES AnyConnect-4.10 PACKAGES	New	Build as DMG	Build as PKG	Search
	Nothing Selected	Owner Group: Everyone:	=	

13. Drag the AnyConnect.pkg file from your Desktop to the tmp folder in Composer. Confirm you have three files in the tmp folder in Composer as shown below.

• • • Composer 10.38	3.0 🤤	Build as DMG	Build as PKG	Q Search Search	
SOURCES AnyConnect-4.10 PACKAGES	 private tmp AnyConnect.pkg anyconnect_profile.xml anyconnect_choices.xml 				AnyConnect.pkg
	Nothing Selected	Owner Group Everyone:	Ξ	R W X 0 0 0 0 0 0 0 0	



14. Select the tmp folder, then select the permissions icon on the bottom right corner (circle with 3 dots). Select Apply Permissions to tmp and All Enclosed Items.

• • • Composer 10.38.	0			Q Search	Oranah	
	Ne	W Build as DMG	Build as PKG		Search	
SOURCES	✓ 🚞 private					
> 🥪 AnyConnect-4.10	✓ mp					
	💝 AnyConnect.pkg					
PACKAGES	anyconnect_profile.xml					
	anyconnect_choices.xn	l				
			root (0)	\odot	 ✓ ✓ ✓ ✓ 	
			wheel (0)	0	 ✓ ✓ ✓ ✓ 	
						\odot
					Mode: 777	Apply Permissions to tmp and All Enclosed Items
						Apply Uwper and Group to tmp and All Enclosed liems
						Apply Owner to tmp and All Enclosed Items
						Apply Group to tmp and All Enclosed Items
						Apply Mode to tmp and All Enclosed Items

15. In the left-hand column, expand AnyConnect-4.10 then select the Scripts folder.



16. Right-click the scripts folder and select Add Shell Script. Select postinstall.

Composer 10	0.38	.0	
SOURCES			
Add Perl Script	>		
Add Shell Script	>	preupgrade InstallationCheck postflight postupgrade preflight proinctoll	
	Ļ	postinstall volumeCneck	



17. Delete the sample postinstall script. We will replace this in the next step.

• • Composer 10.38.0	New	
SOURCES AnyConnect-4.10 Scripts postinstall Settings Snapshots	<pre>#!/Din/sh ## postinstall pathToScript=\$0 pathToPackage=\$1 targetLocation=\$2 targetVolume=\$3</pre>	Delete this content
PACKAGES	exit 0 ## Success exit 1 ## Failure	

18. Open the AnyConnect Sample Files folder on the Desktop. Open the PostinstallCiscoAnyConnect. sh script. Copy the contents of the script.

<	> AnyConnect Sample Files
	Name
XML	anyconnect_choices.xml
XML	anyconnect_profile.xml
	PostinstallCiscoAnyConnect.sh

19. Paste in the script you copied in the previous step. Press the Command and S key on your keyboard to save the script. This is required by Composer.



Let's break down the postinstall script:

- The first item in the script will run the installer command and apply the XML choice installation file with the apps that we want to be installed. We covered the XML choice installation file in section 1 of this guide.
- The next item in the script will move a pre configured anyconnect settings file to the required location which is /opt/cisco/anyconnect/profile/. This file should be edited to include your required information as discussed in the note before step 9 of this section.
- The last few lines are doing some clean up after the install. It will remove all the files that were placed in the /tmp folder.



20. Select AnyConnect-4.10 then select Build as PKG.

Composer 10.38	.0	New	Build as DMG	Build as PKG
SOURCES	private			
✓ ♀ AnyConnect-4.10	v tmp			
✓ Scripts	AnyConnect.pkg			
🔲 postinstall	anyconnect_prof	ile.xml		
> 🚞 Settings	anyconnect_choi	ices.xml		
> 🚞 Snapshots				

21. Save the package to your Desktop. Click Save.

🛅 Desktop	\bigcirc	Q Search	
		Cancel	Save

22. The new package is now on your Desktop.



In the next section, we will go over configuring Jamf Pro with a policy and configuration profiles to stop all the messages that a user is prompted with when installing Cisco AnyConnect.



Section 3: Deploying Cisco AnyConnect with Jamf Pro

To follow along with this section, you will need the custom package that was created in section 2 of this guide, administrative access to your Jamf Pro server, and a Mac computer enrolled in your Jamf Pro server.

1. Log into your Jamf Pro server



- 2. On the top right-hand, click Settings (looks like a gear.)
- 3. Click Computer Management
- 4. Click Packages.





5. Click New.

settings : Computer Management ← Packages							
						(+	- New
NAME	^	CATEGORY	PRIORITY	FUT	FEU		INDEXED
AcroRdrDC_2200120112_MUI.pkg		Applications	10	No	No		No

- 6. Select a Category.
- 7. Click Choose File.

	← New Package	
	General Options Limitations	
	Display Name Display name for the package	
6 —	Category Category to add the package to	
7	Filename Filename of the package on the distribution point (e.g. "MyPackage.pkg")	

8. Navigate to the AnyConnect-4.10.pkg then click Upload.



9. Click Save.



- 10. Click Computers.
- 11. Click Policies.
- 12. Click New

	┛ jamf 🛛 PRO		요	
10—	Computers Devices Users	Computers Policies		- 12
	INVENTORY	C Filter Pc 1-33 of 33	+ New := ::::::::::::::::::::::::::::::::::	
	 Search Inventory Search Volume Content 	NAME ^ FREQUENCY TRIGGER	SCOPE	
	CONTENT MANAGEMENT	> Branding		
11—	Policies Configuration Profiles Restricted Software	macOS Applications		

- 13. Enter the following:
 - A. Display Name: **Install Cisco AnyConnect** B. Category: Set the category to your needs

 - C. Trigger: Set the trigger to your needs
 - D. Click Packages

	Computers : Policies ← Install Cisco AnyConnect	
	Options Scope Self Service User Inter	action
	General >	General
D ——	Packages 0 Packages	Install Cisco AnyConnect
	Software Updates Not Configured	Enabled
	Scripts 0 Scripts	Networking B
	Printers 0 Printers	Trigger Event(s) to use to initiate the policy Startup Whon a computer starts up. A startup so
	Disk Encryption Not Configured	Login When a user logs in to a computer. A log
	Dock Items	Network State Change When a computer's network state chang
	Local Accounts 0 Accounts	Enrollment Complete Immediately after a computer completes
	Management Accounts Not Configured	At the recurring check-in frequency conf
	Directory Bindings 0 Bindings	At a custom event Custom Event Custom event to use t C
		InstallAnyConnect



14. Click Configure.

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

15. Find the AnyConnect-4.10.pkg and click Add.

AnyConnect-4.10pkg	Networking	Add

- 16. Set the Distribution Point your needs.
- 17. Set the Action to Install.

	Packages Distribution Point Distribution point to download the package(s) from Each computer's default distribution point	— 16
17——	AnyConnect-4.10pkg Action Action to take on computers Install	

18. Click Scope and scope to your needs.

← Insta	III Cisco AnyCo	nnect			
Options	Scope Self S	ervice	User Interaction		
	Т	argets		Limitations	
Target Com Computers to	puters o deploy the policy to			Target Users Users to deploy the policy to	
All Compu	uters		•	Specific Users	•



19. Click Save.

\otimes	E
Cancel	Save

- 20. Click Computers.
- 21. Click Configuration Profiles.

22. Click New

	🗖 jamf 🛛 PRO	<u>)</u> \$ \$	
20 —	Computers Devices Users	Computers Configuration Profiles	22
	INVENTORY	∨ Q. Filter Pr 1 - 21 of 21 + New 1 Upload 1 =	22
	Search Inventory	NAME LOGS COMPLETED PENDING FAILED SCOPE	
	CONTENT MANAGEMENT	> macOS Configurations Profiles	
21—	Policies	> macOS Security and Restrictions	
	Restricted Software Mac Apps Top Patch Management	> No category assigned	

- 23. Select General, then enter the following:
 - A. Name: Cisco AnyConnect
 - B. Category: Set the category to your needs
 - C. Leave other items at the default settings.

	puons Scope	0
General	General	۵,
Name Display name of the profile		
Cisco AnyConnect	Passcode Not configured	P
Description Brief explanation of the conte		
	Network Not configured	((10
Category Category to add the profile to	VPN Not configured	A
 Universal Mac Deployment 🔻 🖕		
Level Level at which to apply the profile	DNS Settings	Ð
Computer Level 🔻	noroomigarea	
	DNS Proxy	T
Distribution Method Method to use for di	Not configured	άó
Install Automatically		
	Contrat Contains	



24. Select the Notifications Payload, then click Add.

Notifications Use the switch to enable the setting configuration (macOS 10.15 or later)	Remove all	+ Add

- 25. Enter the following:
 - A. App Name: Cisco AnyConnect
 - B. Bundle ID: com.cisco.anyconnect.notification
 - C. Configure the Critical Alerts and Notifications to your needs.

Notifications peyload configured		Remove all + Ad
Cisco AnyConnect Bundle ID: com.cisco.anyconnect.notification		×
App Name Cisco AnyConnect	Bundle ID com.cisco.anyconnect.notification	
Settings	ncquirea	Include
Critical Alerts Critical Alerts can ignore Do Not Disturb and ringer settings for this app		Disable Enable
Notifications Allow notifications to be displayed for this app		Disable Enable
Banner alert type Banner alerts appear in the upper-right corner. Temporary banners clear automatically Temporary v	and persistent banners require the end user to take action before clearing.	
Notifications on Lock screen		Hide Display
Notifications in Notification Center		Hide Display
Badge app icon		Hide Display

26. The Notifications payload will prevent the user from having to allow or deny the message below.



27. Select the System Extensions Payload, then click Configure.





- 28. Enter the following:
 - A. Display Name Cisco AnyConnect Socket Filter Extension Removable System Extensions
 - B. System Extension Types: Allowed System Extensions
 - C. Team Identifier: DE8Y96K9QP
 - D. Allowed System Extensions Click Add (+) then enter this: com.cisco.anyconnect.macos.acsockext
 - E. Click Save.
 - F. Click Add (+) in the upper-right corner to add another System Extension.

Xsan Not configured	System Extensions ×
Smart Card Not configured	Allow users to approve system extensions
System Migration Not configured	Allowed Team IDs and System Extensions H Display Name
Approved Kernel Extensions Not configured	Cisco AnyConnect System Extension Types Allowed System Extensions
Associated Domains Not configured	Team Identifier
Extensions Not configured	ALLOWED SYSTEM EXTENSIONS
Single Sign-On Extensions	.anyconnect.macos.acsockex

29. Enter the following:

D

- A. Display Name Cisco AnyConnect Socket Filter Extension Allowed System Extensions
- B. System Extension Types: Allowed System Extension Types
- C. Team Identifier: DE8Y96K9QP
- D. Allowed System Extension Types select the checkbox next to Network

Display Name		
Cisco AnyConnect - Sock	ket Filter Extension - Allowed System Extensions	
System Extension Types		
Allowed System Extensio	on Types 🔻 🖣	
Team Identifier		
DE8Y96K9QP		•
Allowed System Extension 1	Fypes	
Driver Extension		
Endpoint Security Ex	tension	



30. The System Extensions payload will prevent the user from seeing the message below.

<text><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></text>	
<image/> <image/> <section-header><section-header><text><text><text></text></text></text></section-header></section-header>	Cisco AnyConnect Secure Mobility Client Notification
<text><text><image/></text></text>	Attention Required
<text></text>	AnyConnect System Extension Blocked:
<text></text>	Your system requires you to enable the Cisco AnyConnect System Extension in order to leverage the full extent of AnyConnect capabilities. Some AnyConnect functions will not operate correctly until it's enabled.
	Please allow the "Cisco AnyConnect Socket Filter" System Extension in System Preferences -> Security & Privacy pane. Please also allow subsequent related prompts.
Image: Series of Series o	••• C > III Security & Privacy C, Securit
Ale ale and the and ale	Ouneral FileWait Firewait Privacy
And the procession of the first sector of	A login password has been set for this user Change Password.
Are use an enveloped transfer Minima Minima and enveloped transfer Are and an enveloped transfer and an enveloped transfer Are and an enveloped transfer and an enveloped transfer Minima Area and A	C http://papersong/ E mithuder @ what steep or some save begins Dear a mesager when the Activen is locked
Totan unband here sections: "Size Auforment (beiter fiber unbander)	Allow ages develoaded fran: Age Stars Age Stars
Dis te las la provertier danges. Normet. ?	System sufferer Pres-replication "Onco AnyConnect Social Filter" Abov was Bacted from Isading.
• •	Click the lock to prevent further changes. Advenced. ?
Open Preferences	Onen Preferences

- 31. Select the Content Filter Payload. NOTE: This is a very long payload. Only the sections shown below should be configured. Leave all other items at their defaults. Enter the following:
 - A. Filter Name: Cisco AnyConnect Content Filter
 - B. Identifier: com.cisco.anyconnect.macos.acsock
 - C. Scroll down to the Socket Filter section.

Content Filter Settings configured: 4	Exclude all	
	Include	
Filter Name Display hame of the filter in the app and on the device		
Cisco AnyConnect Content Filter]	<u> </u>
Required		
Identifier Identifier for the filter plug-in		
com.cisco.anyconnect.macos.acsock		— В
Required	-	

- 32. In the Socket Filter section, enter the following:
 - A. Socket Filter Bundle Identifier: com.cisco.anyconnect.macos.acsockext
 - B. Socket Filter Designated Requirement (Copy and paste the info below): anchor apple generic and identifier "com.cisco.anyconnect.macos.acsockext" and (certificate leaf[field.1.2.840.113635.100.6.1.9] /* exists */ or certificate 1[field.1.2.840.113635.100.6.2.6] /* exists */ and certificate leaf[field.1.2.840.113635.100.6.1.13] /* exists */ and certificate leaf[subject.OU] = DE8Y96K9QP)
 - C. Scroll down to the Custom Data section.

Socket Filter Socket Filter Bundle Identifier Bundle Identifier of the socket filter provider system extension	
com.cisco.anyconnect.macos.acsockext	— A
Required Exclusional Bandwarean Decision and the control films control control and control films control or co	_
socket Filter Designation Requirement: Designation requirement of the socket filter provide system exemption anchor apple generic and identifier "com.cisco.anyconnect.macos.acsockext" and (certificate leaffield.12.840.113635.100.6.1.9) /* exists '/ or certificate [field.12.840.113635.100.6.2.6) /* exists '/ and certificate leaffield.	 — в
Repired	



33. Click the Add (+) five times to add five Key/Value fields:

6	Approved Kernel Extensions Not configured	Network Filter Designated Requirement Designated requirement of the network filter provider system extension	
۲	Associated Domains Not configured	Required Custom Data Custom confouration data for the filter plug-in	
ு	Extensions Not configured	Key Value	
9	Single Sign-On Extensions Not configured	Add values to the configuration.	
e	System Extensions 1 payload configured	+ Add	
V	Content Filter Not configured	© Cancel	I Sav

34. Enter the information shown in the picture below in the five fields. Enter exactly as shown. This is case sensitive.

Кеу	Value
FilterGrade	firewall
FilterPackets	false
FilterSockets	true
FilterBrowsers	false
AutoFilterEnabled	false

Custom Data Custom configuration data for the filter plug-in		•
Key	Value	
FilterGrade	firewall	Û
Required	Required	
FilterPackets	false	Û
Required	Required	
FilterSockets	true	Û
Required	Required	
FilterBrowsers	false	Û
Required	Required	
AutoFilterEnabled	false	Û
Required	Required	

35. Click Scope and scope to your needs.

Options	Scope	
	Targets	
Target Com	puters	Target Users
Target Com Computers t	puters o assign the profile to	Target Users Users to distribute the profile



36. Click Save.



37. The Content Filter payload will prevent the user from having to choose Allow or Don't Allow at the message below.

"Cisco AnyCo Filter" Would Network	nnect Socket Like to Filter Content
All network activity of filtered or r	on this Mac may be nonitored.
Allow	Don't Allow



Section 4: Deploying Cisco AnyConnect to a Mac Computer

To follow along with this section, you will need a Mac computer enrolled in your Jamf Pro server and scoped to the policy and configuration profile we created in section 3 of this guide.

1. Login to the Mac Computer, then open System Preferences



2. Click Profiles.





3. Confirm the Cisco AnyConnect profile is installed then quit System Preferences. It's very important that the profile is installed before Cisco AnyConnect gets installed on the Mac computer. If not, the user will get all the messages and prompts that we are trying to silence.

• • • < > :::: P	rofiles	Q Search
Device (Managed)	DETAILS	
Cisco AnyConnect 3 settings	Content Filter Service	
amf Connect Notific	Description Web	Content Filter Payload
1 setting	Notification Settings	
Jamf Connect PPPC	Description Notif	cations Payload
1 setting	Identifier com.	cisco.anyconnect.notification
Jamf Notifications	Notifications Enabled True	
1 setting	Show In Lock Screen False	
MDM Profile	Alert Type Bann	ers
3 settings	Badges Enabled True	
Privacy Preferences	Sounds Enabled True	
1 setting	Critical Alert Enabled True	
	Show In Notification True Center	
	System Extension Policy C	control
	Description Syste	em Extensions
+ -	User approvals Yes allowed?	

This guide used a custom trigger to call the Install Cisco AnyConnect policy. If you used a different installation trigger when setting up your policy to install Cisco AnyConnect, you can skip step 4.

4. Open Terminal located in /Applications/Utilities.



Terminal

 Enter this command to run the Install Cisco AnyConnect policy: sudo jamf policy -event InstallAnyConnect

If all goes well, you should NOT get any prompts to approve System Extensions, Proxy, or Notification messages. Cisco AnyConnect should install silently.





6. Confirm the installation of Cisco AnyConnect. Go to /Applications/Cisco. Open the Cisco AnyConnect Secure Mobility Client.



7. You will be presented with ONLY the AnyConnect VPN client. No other Cisco applications should be installed. The anyconnect_choices.xml file that we added to the custom package we created in section 2 of this guide instructed the installer to only install the VPN app.

•••	AnyConnect Secure Mobility Client	altalta cisco
	VPN: Ready to connect. HCS-NY	Connect
* 2		

8. Confirm the pre configured server settings show up in the dropdown menu. These settings were populated from the anyconnect_profile.xml that we added to the custom package created in section 2 of this guide.

•••	AnyConnect Secure Mobility Client	uluulu cisco
Re	PN: ady to connect.	
	CS-NY	Connect
H	CS-CT CS-NY	

This completes the guide.