Assess Endpoint Compliance Using Cisco Secure Client ISE Posture Module and Cisco Secure Firewall Management Center

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Introduction

Cisco Secure Client's ISE Posture module helps you to assess endpoint compliance before allowing them to connect to your network. The assessment can be for a specific version of an antivirus, an antispyware, a file, a registry key, and so on. During posture evaluation, all clients connecting to your network must meet the mandatory requirements to be compliant.

The ISE Posture module performs a client-side evaluation. The client receives the posture requirement policy from ISE, performs the posture data collection, compares the results against the policy, and sends the assessment results back to the ISE. The posture service classifies the posture states as unknown, compliant, and noncompliant.

Benefits

Using a threat defense to configure ISE Posture modules offers significant benefits such as:

- Easily distribute and manage the ISE posture modules and profiles on each endpoint.
- Easily assess endpoint compliance before they connect to the corporate network.

Is this Guide for You?

This use case is primarily intended for network administrators who use the management center to configure the ISE Posture module for endpoint compliance assessment.

System Requirements

The following table shows the supported platforms for this feature.

Product	Version	Version used in this document
Cisco Secure Firewall Threat Defense (formerly Firepower Threat Defense/FTD)	6.3 and later	7.3
Cisco Secure Firewall Management Center (formerly Firepower Management Center/FMC)	6.7 and later	7.3
Cisco Secure Client (formerly AnyConnect)	4.0 and later	5.0
Cisco ISE	2.0 and later	3.1

Prerequisites

Ensure that you have:

- Access to a Cisco ISE server with admin privileges.
- Downloaded the Secure Client package and the Secure Client profile editor from Cisco Software Download Center to your local host.
- Installed the Secure Client profile editor to your local host.
- Downloaded the ISE Compliance Module from Cisco Software Download Center to your local host.
- Configured ISE server details in the managed threat defense. See Configure ISE in the Management Center.
- · Configured a remote access VPN in the management center.

Licenses

- ISE Premier license.
- One of the following Secure Client licenses:

Secure Client Premier, Secure Client Advantage, or Secure Client VPN Only.

Management center Essentials (formerly Base) license must allow export-controlled functionality.
 Choose System > Licenses > Smart Licenses to verify this functionality in the management center.

Configure ISE in the Management Center

You must configure the ISE server in the management center to:

- Allow AAA requests from the threat defense for remote access VPN.
- Receive the posture requirement policy from ISE.
- Send the assessment results to ISE.

You must create a RADIUS Server object and configure it with the ISE server details.

Procedure

 Step 1
 Choose Objects > Object Management > AAA Server > RADIUS Server Group.

Step 2Click Add RADIUS Server Group.

Step 3 Enter a name and a retry interval.

ISE			
-			
Description:			
Group Accountir	ng Mode:		
Single	•		
Retry Interval:*	(1-10) Seconds		
10			
Realms:			
	_		
Enable auth	prize only		
 Enable author Enable inter Interval:* 	prize only im account update (1-120) hours		
 Enable author Enable inter Interval:* 24 	tim account update (1-120) hours		
 Enable authors Enable inter Interval:* 24 Enable dyna 	tim account update (1-120) hours mic authorization		
 Enable author Enable inter Interval:* 24 Enable dyna Port:* 	mic authorization (1024-65535)		
 Enable author Enable inter Interval:* 24 Enable dyna Port:* 1700 	mic authorization (1024-65535)		
 Enable authors Enable inter Interval:* 24 Enable dyna Port:* 1700 	mic authorization (1024-65535)		
 Enable authors Enable international Interval:* 24 Enable dyna Port:* 1700 RADIUS Servers 	mic authorization (1024-65535) (Maximum 16 servers)		
 Enable authors Enable internation Interval:* 24 Enable dyna Port:* 1700 RADIUS Servers IP Address/Hos 	mic authorization (1024-65535) (Maximum 16 servers)		

- **Step 4** Configure the port as 1700.
- **Step 5** Click + to add the ISE server.
- **Step 6** Enter the IP address of the ISE server.
- **Step 7** Leave the **Authentication Port** as 1812.
- **Step 8** Configure the key.

Enter the shared secret to encrypt data between the managed device (client) and the ISE server.

Step 9 Enter the key again in the **Confirm Key** field.

You need this key when you add the threat defense in ISE.

Step 10Use the default values for the remaining parameters.Step 11Click Save.

End-to-End Process for Configuring ISE Posture Module Using Management Center

The following flowchart illustrates the workflow for configuring Secure Client ISE posture module using management center.



Step	Application	Description
1	ISE Posture Profile Editor	Configure the Posture Profile using the ISE Posture Profile Editor, on page 5
2	ISE	Configure Threat Defense in ISE, on page 6
3	ISE	Upload ISE Posture Profile, Secure Client Package, and ISE Compliance Module to ISE, on page 6
4	ISE	Configure a Secure Client Configuration in ISE, on page 8
5	ISE	Create a Client Provisioning Policy in ISE, on page 9
6	ISE	Configure Posture Policy in ISE, on page 10
7	ISE	Configure Downloadable ACLs for the Posture Statuses in ISE, on page 12
8	ISE	Configure Authorization Profiles for the Posture Statuses in ISE, on page 13
9	ISE	Configure Authorization Policies for the Posture Statuses in ISE, on page 15

Step	Application	Description
10	Management Center	Configure a Remote Access VPN Group Policy with ISE Posture Module in the Management Center, on page 16
11	Management Center	On the management center menu bar, click Deploy and then select Deployment .

Configure the Posture Profile using the ISE Posture Profile Editor

The standalone Secure Client profile editor package contains the ISE posture profile editor. Use this editor to create the ISE posture profile and then upload it to ISE and the management center.

Configure the following parameters:

1. Check the **Enable posture non-redirection flow** check box.

ISE Posture	Preferences Profile: Untitled	
	Agent Behaviour	
	Enable Signature Check	
	Enable Agent Log Trace	
	Operate On Non-802. 1X Wireless Networks	
	Enable Posture Non-Redirection Flow	
	Enable Stealth Mode	
	Enable Stealth With Notification	
	Disable EDR Internet Check	
	Enable Rescan Button	
	Disable UAC PopUp	
	BackOff Timer Limit	30 Sec
	Log file size	5 MB
	Remediation timer	Min
	Automated DART Count	3
	Periodic Probe Interval	30 x 10 min
	Posture State Synchronisation Interval	0 Sec
	Posture State Synchronisation Probe List	
	Maximum time for CWA/BYOD probing	90 Sec
	Interval of CWA/BYOD probing	5 Sec

- 2. Enter the Server name rules as *.
- 3. Configure Call Homes List with the FQDN or the IP address of the ISE.

Configure Threat Defense in ISE

Deathing Deathead		
Posture Protocol		
Discovery host		
Server name rules	*	
Call Home List		
Con Home Else		
PRA retransmission time	120 Sec	C
Petransmission delay	60 Sec	-
red driamaalon delay		-
Potronomission limit		
Reu drishission illinic	T	
		_

Configure Threat Defense in ISE

Procedure

Step 1	Log in to ISE.
Step 2	Choose Administration > Network Resources > Network Devices.
Step 3	Click Add.
Step 4	Enter the name, description, and IP address of the threat defense.
Step 5	Choose Cisco from the Device Profile drop-down list.
Step 6	Expand RADIUS Authentication Settings.
Step 7	Configure the Shared Secret and the CoA Port.
	You need this secret and the port when you configure ISE in the threat defense. For more information, see Configure ISE in the Management Center.
Step 8	Click Save.

Upload ISE Posture Profile, Secure Client Package, and ISE Compliance Module to ISE

Procedure

Step 1Choose Work Centers > Posture > Client Provisioning > Resources.Step 2Click Add and choose Agent resources from local disk.

Overview	Network Devices	Client	Provisioning	Policy Ele	ments
Client Provisioning Resources Client Provisioning	Policy	Reso	ources		
		0 Edit	+ Add $~$	Duplicate	蕑 Delete
			Agent res	ources from Cisco	site
			Agent res	ources from local d	lisk [;] o

Step 3 Choose Cisco Provided Packages from the Category drop-down list.

Step 4 Click Choose File and select one of the following from the local host:

- **a.** ISE Posture Profile (ISEPostureCFG.xml)
- **b.** Secure Client package
- **c.** ISE Compliance Module

Step 5 Click Submit.

Step 6 Click **Confirm** to validate the checksum.

	Marning
	warning
	Please confirm this package's hash matches :
SHA-1:bc91eb SHA-256:e010 SHA-	141b96fc78f3e8969bb6f9cea3553daa50)e327ea2f8df2b13925d680024e97d9e94d45fe700142fa6d7a7bd3597768
512:af9255240 5fbfe0699abce	16653be63033b1c56c0bcc168ec9f0b5903d617a0a436ed7fb7d6c2cab90a3 e3d54003472326e42a5de0831c2e052d

Step 7 Repeat steps 2 to 6 to upload the remaining two files.

E Cisco ISE		Work Ce	enters · Posture		L	A Evaluation Mode 70 Days
Overview Network Devices	Client P	rovisioning Policy Eleme	ents Posture Policy	Policy S	ets Troubleshoot	Reports Settings
Client Provisioning Policy	🖉 Edit	+ Add ~ Duplicate	Delete			
Resources		Name	Туре	Version	Last Update	Description
Client Provisioning Portai		AnyConnectComplianceModuleWi	AnyConnectComplianceM	4.3.3534.81	2023/06/24 08:26:48	Cisco Secure Client Windows
		CiscoTemporalAgentOSX 4.10.02	CiscoTemporalAgentOSX	4.10.2051.0	2021/08/09 19:12:31	With CM: 4.3.1858.4353
		Cisco-ISE-Chrome-NSP	Native Supplicant Profile	Not Applicable	2016/10/06 20:01:12	Pre-configured Native Suppli
		CiscoAgentlessOSX 4.10.02051	CiscoAgentlessOSX	4.10.2051.0	2021/08/09 19:12:36	With CM: 4.3.1858.4353
		MacOsXSPWizard 2.7.0.1	MacOsXSPWizard	2.7.0.1	2021/08/09 19:12:27	Supplicant Provisioning Wizar
		CiscoAgentlessWindows 4.10.02	CiscoAgentlessWindows	4.10.2051.0	2021/08/09 19:12:33	With CM: 4.3.2227.6145
		AnyConnect Configuration	AnyConnectConfig	Not Applicable	2023/06/24 16:05:27	
		Cisco-ISE-NSP	Native Supplicant Profile	Not Applicable	2016/10/06 20:01:12	Pre-configured Native Suppli
		WinSPWizard 3.0.0.3	WinSPWizard	3.0.0.3	2021/08/09 19:12:27	Supplicant Provisioning Wizar
		CiscoTemporalAgentWindows 4.1	CiscoTemporalAgentWind	4.10.2051.0	2021/08/09 19:12:28	With CM: 4.3.2227.6145
		AnyConnectDesktopWindows 5.0	AnyConnectDesktopWind	5.0.3072.0	2023/06/26 18:45:44	Cisco Secure Client for Wind
		AC-Posture-Profile	AnyConnectProfile	Not Applicable	2023/06/26 17:57:02	

Configure a Secure Client Configuration in ISE

Secure Client Configuration (AnyConnect Configuration in ISE) is the Secure Client software and its different configuration files like the Secure Client binary packages for clients, ISE compliance module, ISE module profiles, customization, and language packages for AnyConnect.

Procedure

Step 1	Choose Work Centers > Posture > Client Provisioning > Resources.
Step 2	Click Add and choose AnyConnect Configuration.
Step 3	Choose the Secure Client package from the Select AnyConnect Package drop-down list.
Step 4	Choose the ISE Compliance Module from the Compliance Module drop-down list.

* Select AnyConnect Package:	CiscoSecureClientDesktopWindows 5.0 ~
* Configuration Name:	AnyConnect Configuration
Description:	
Description Value Notes	5

- **Step 5** Under **Cisco Secure Client Module Selection**, by default, ISE Posture is enabled.
- Step 6 Under Profile Selection, choose the ISE Posture file from the ISE Posture drop-down list.
- Step 7 Click Submit.

Create a Client Provisioning Policy in ISE

A user receives specific versions of resources such as agents, agent compliance modules, or agent customization profiles from ISE based on the client provisioning policy.

Procedure

Step 1	Choose Policy > Client Provisioning .
Step 2	Click Edit , and choose Insert new policy above .
Step 3	Enter the policy name, and choose an operating system.
Step 4	Click + under Results , and choose the AnyConnect Configuration from the Agent drop-down list.

Overview Network Devices	Client Pro	Policy El	ements	Posture Policy	(Policy Sets Troubles	shoot	t Reports Settings			
Client Provisioning Policy	Client	Provisioning	Poli	CV							
Resources	onom	riovisioning	1 011	Cy							
Client Provisioning Portal	Define the CI For Agent Co For Native Su	ient Provisioning Policy to a nfiguration: version of age oplicant Configuration: wiz	determine nt, agent ard profil	e what users will rece profile, agent compli le and/or wizard. Dra	aive u lance g and	pon login and user session in module, and/or agent custon I drop rules to change the or	nitiatio mizatio der.	on package.			
	\sim										
		Rule Name		Identity Groups		Operating Systems		Other Conditions		Results	
	ii 🖬	AC_Windows	If	Any	and	Windows All	and	Condition(s)	then	AnyConnect Configuration	Edit 🛩
	# 🖂	105	If	Any	and	Apple IOS All	and	Condition(s)	then	Cisco-ISE-NSP	Edit 🛩
	# 🗹	Android	If	Any	and	Android	and	Condition(s)	then	Cisco-ISE-NSP	Edit 🛩
	# 🜌	Windows	If	Any	and	Windows All	and	Condition(a)	then	CiscoTemporalAgentWin dows 4.10.02051 And WinSPWizard 3.0.0.3 And Cisco-ISE-NSP	Edit 🛩
	8	MAC OS	If	Any	and	Mac OSX	and	Condition(s)	then	CiscoTemporalAgent05X 4.10.02051 And MacOsXSPWizard 2.7.0.1 And Cisco-ISE-	Edit ~
										Save	Iset

Step 5 C

Click Save.

Configure Posture Policy in ISE

The posture policies, posture requirements, and the posture conditions determine the compliance status of the endpoint.

Procedure

Step 1 Configure posture conditions.

a. Choose Policy > Policy Elements > Conditions > Posture.

You can choose one or more posture conditions.

b. Click Anti-Malware to choose an anti-malware condition.

You can choose a predefined anti-malware condition or create a new one. For Windows, you can select the 'ANY_am_win_inst' anti-malware posture condition.

≡ Cisco ISE			Policy · Policy Elements
Dictionaries Conditions	Results		
Library Conditions Smart Conditions Time and Date	Anti-	-Malware Co	nditions
Profiling	0 Edit	+ Add Duplicate	Delete
Posture ~		Name	Description
Anti-Spyware		ANY_am_win_inst	Any AM installation check on
Anti-Virus		ANY_am_win_def	Any AM definition check on
Application		ANY_am_mac_inst	Any AM installation check on
Compound Dictionary Compound		ANY_am_mac_def	Any AM definition check on M
Dictionary Simple		ANY_am_lin_inst	Any AM installation check on
Disk Encryption		ANY_am_lin_def	Any AM definition check on Li
External DataSource			
File			
Firewall			

Step 2 Configure posture requirements.

Choose **Policy** > **Policy** Elements > **Results** > **Posture** > **Requirements**.

A posture requirement is a set of posture conditions associated with a remediation action. You can choose one of the multiple default or predefined posture requirements, or create a new one.

For Windows, you can select the 'Any_AM_Installation_Win' anti-malware posture requirement.

≡ Cisco ISI				Policy ·	Policy	Elements				-		💻 🕕 Q 🕼 💻	9 🔅
Dictionaries	Conditions	Results											
Authentication	>					Guide Me						~	Q
Authorization	>	Requirements											
Profiling	>	Name		Operating System		Compliance Module		Posture Type		Conditions		Remediations Actions	
Posture	~	Any_AV_Installation_Win	for	Windows All	using	3.x or earlier	using	AnyConnect	met if	ANY_av_win_inst	then	Message Text Only	E
Remediation Actions	~	Any_AV_Definition_Win	for	Windows All	using	3.x or earlier	using	AnyConnect	met if	ANY_av_win_def	then	AnyAVDefRemediationWin	E
Requirements		Any_AS_Installation_Win	for	Windows All	using	3.x or earlier	using	AnyConnect	met if	ANY_as_win_inst	then	Message Text Only	E
		Any_AS_Definition_Win	for	Windows All	using	3.x or earlier	using	AnyConnect	met if	ANY_as_win_def	then	AnyASDefRemediationWin	E
Client Provisioning	>	Any_AV_Installation_Mac	for	Mac OSX	using	3.x or earlier	using	AnyConnect	met if	ANY_av_mac_inst	then	Message Text Only	E
		Any_AV_Definition_Mac	for	Mac OSX	using	3.x or earlier	using	AnyConnect	met if	ANY_av_mac_def	then	AnyAVDefRemediationMac	E
		Any_AS_Installation_Mac	for	Mac OSX	using	3.x or earlier	using	AnyConnect	met if	ANY_as_mac_inst	then	Message Text Only	E
		Any_AS_Definition_Mac	for	Mac OSX	using	3.x or earlier	using	AnyConnect	met if	ANY_as_mac_def	then	AnyASDefRemediationMac	E
		Any_AM_Installation_Win	for	Windows All	using	4.x or later	using	AnyConnect	met if	ANY_am_win_inst	then	Message Text Only	E
		Any_AM_Definition_Win	for	Windows All	using	4.x or later	using	AnyConnect	met if	ANY_am_win_def	then	AnyAMDefRemediationWin	E



a. Choose Policy > Posture.

You must define a posture policy by configuring a rule based on an operating system and one or more posture requirements.

For Windows, you can select the 'Default_AntiMalware_Policy_Win' anti-malware posture policy.

Post	ure Policy	1											
Define the	Posture Policy by c	onfiguring rules based on operat	ing system and/or oth	er con	ditions.							~	C
~													
Status	Policy Options	Rule Name	Identity Groups		Operating Systems		Compliance Module		Posture Type	Other Conditions		Requirements	
	Policy Options	Default_AntiMalware_Policy_Ma c	If Any	and	Mac OSX	and	4.x or later	and	AnyConnect	and	then	Any_AM_Installation_Ma c	Edit 🗸
	Policy Options	Default_AntiMalware_Policy_Ma c_temporal	If Any	and	Mac OSX	and	4.x or later	and	Temporal Agent	and	then	Any_AM_Installation_Ma c_temporal	Edit 🗸
	Policy Options	Default_AntiMalware_Policy_Win	If Any	and	Windows All	and	4.x or later	and	AnyConnect	and	then	Any_AM_Installation_Win	Edit ~
	Policy Options	Default_AntiMalware_Policy_Wi n_temporal	If Any	and	Windows All	and	4.x or later	and	Temporal Agent	and	then	Any_AM_Installation_Win_temporal	Edit 🛩
	Policy Options	Default_AppVis_Policy_Mac	If Any	and	Mac OSX	and	4.x or later	and	AnyConnect	and	then	Default_AppVis_Require ment_Mac	Edit 🛩
	Policy Options	Default_AppVis_Policy_Mac_te mporal	If Any	and	Mac OSX	and	4.x or later	and	Temporal Agent	and	then	Default_AppVis_Require ment_Mac_temporal	Edit 🗸
	Policy Options	Default_AppVis_Policy_Win	If Any	and	Windows All	and	4.x or later	and	AnyConnect	and	then	Default_AppVis_Require ment_Win	Edit 🛩
	Policy Options	Default_AppVis_Policy_Win_te mporal	If Any	and	Windows All	and	4.x or later	and	Temporal Agent	and	then	Default_AppVis_Require ment_Win_temporal	Edit 🛩
	Policy Options	Default_Firewall_Policy_Mac	If Any	and	Mac OSX	and	4.x or later	and	AnyConnect	and	then	Default_Firewall_Require ment_Mac	Edit 🛩
	Policy Options	Default_Firewall_Policy_Mac_te mporal	If Any	and	Mac OSX	and	4.x or later	and	Temporal Agent	and	then	Default_Firewall_Require ment_Mac_temporal	Edit 🗸
C													
												Save	Reset

- **b.** Check the **Status** check box to enable the posture policy.
- c. Click Save.

Configure Downloadable ACLs for the Posture Statuses in ISE

You must configure downloadable ACLs (DACL) for the Unknown, Noncompliant, and Compliant posture statuses. Default authorization DACLs are also available.

Procedure

Step 1	Choose Policy > Policy Elements > Results > Authorization > Downloadable ACLs.
Step 2	Click Add.
Step 3	Enter a name and description.
Step 4	Click the radio button for the required IP version.
Step 5	Enter the values for the DACL.

Downloadable ACL I	List > Post	ure_Unknown
Downloadable	ACL	
* Name	Posture	Unknown
Description		
Duersion		
IP version	IPV4	Prv6 Agnostic ()
* DACL Content	1234567	permit udp any any eq domain
	8910111	permit ip any host x.x.x
	2131415	
	1617181	
	9202122	
	6272829	
	3031323	
	3343536	
	3738394	
	0414243	

Step 6 Click Submit.

L

Step 7 Repeat steps 2 to 6 to create DACLs for the remaining posture statuses.

Examples of DACLs for Unknown, Noncompliant, and Compliant posture statuses:

Type of DACL	Description	DACL
Posture Unknown DACL	Allows traffic to DNS and Policy Service (PSN).	permit udp any any eq domain permit ip any host x.x.x.x
Posture Noncompliant DACL	Denies access to private subnets and allow only internet traffic.	deny ip any x.x.x.x 255.255.255.0 permit ip any any
Posture Compliant DACL	Allows all traffic.	permit ip any any

What to do next

Configure authorization profiles using these DACLs. For more information, see Configure Authorization Profiles for the Posture Statuses in ISE.

Configure Authorization Profiles for the Posture Statuses in ISE

You must create three authorization profiles for the Unknown, Noncompliant, and Compliant posture statuses.

Procedure

Step 1 Choose **Policy > Policy Elements > Results > Authorization > Authorization Profiles**.

- **Step 2** Create an authorization profile for each posture status.
- Step 3 Click Add.
- **Step 4** Enter a name.
- **Step 5** From the **Access Type** drop-down list, choose **ACCESS_ACCEPT**.
- **Step 6** From the **Network Device Profile** drop-down list, choose **Cisco**.
- **Step 7** Under **Common Tasks**, check the **DACL Name** check box and choose the DACL for the posture state from the drop-down list.

You can view the configured attributes under Attributes Details.

The example below shows the authorization profile for the Unknown status.

Authorization Profiles > F	TD_VPN_Unknown		
Authorization Prof	ile		
* Name	FTD_VPN_Unknown		
Description			
* Access Type	ACCESS_ACCEPT ~	/	
Network Device Profile	$\frac{\partial \Phi}{\partial H}$ Cisco $\checkmark \oplus$		
Service Template			
Track Movement			
Agentless Posture			
Passive Identity Tracking			
Common Tasks	\$		
Z DACL Name	Posture_Unknown ~		
IPv6 DACL Name			
- ACL			I
Attributes Details			
Access Type = ACCESS_ACCEPT			
DACL = Posture_Unknown			

Step 8 Click Submit.

Step 9 Repeat steps 3 to 8 to create authorization profiles for the remaining posture statuses.

What to do next

Configure authorization policies using these authorization profiles. For more information, see Configure Authorization Policies for the Posture Statuses in ISE.

Configure Authorization Policies for the Posture Statuses in ISE

You must create an authorization policy for each posture status.

Procedure

L

Step 1 Choose **Policy** > **Policy Sets**.

Step 2 In the **View** column, click the arrow icon adjacent to the Default policy.

olicy Sets			Reset Reset Policyset Hitcounts Save
🕣 Status Policy Set Name	Description	Conditions	Allowed Protocols / Server Sequence Hits Actions View
Q Search			
		+	
O Default	Default policy set		Default Network Access 🙁 🗸 + 365 {ô}

- Step 3 Expand Authorization Policy.
- **Step 4** Click + adjacent to the **Status** column.
- **Step 5** Use **Posture Status** and **Identity Group** as conditions of the policy.
- **Step 6** Choose the appropriate authorization profile from the drop-down list for the posture status.
- Step 7 Click Save.
- **Step 8** Repeat steps 4 to 7 for the remaining authorization policies.

The image below shows the authorization policies for the posture statuses.

Assess Endpoint Compliance Using Cisco Secure Client ISE Posture Module and Cisco Secure Firewall Management Center
Configure a Remote Access VPN Group Policy with ISE Posture Module in the Management Center

isco ISE			Policy · Policy Sets			1 Q	10	P
۲	Default	Default	Guide Me		Default Network A	Access 🔇	a ~ +	- 274
Authentica	ation Policy (4)							
Authorizat	tion Policy - Local Exception	5						
Authorizat	tion Policy - Global Exception	ns						
Authorizat	tion Policy (15)							
				Results				
				Results				
(+) Stat	tus Rule Name	Cond	tions	Results Profiles	Security Groups		Hits	Actions
 € Stat Q Sea 	tus Rule Name	Cond	tions	Profiles	Security Groups		Hits	Action
⊕ Stat	tus Rule Name	Cond	tions	Results Profiles	Security Groups		Hits	Action
Stat	Rule Name arch FTD-VPN-POSTURE- COMPLIANT	Cond	Session PostureStatus EQUALS Compliant A InternalUserIdenthyGroup EQUALS User Identity Groups:RADIUS-FTD2-ANYICONNECT	Results Profiles (FTD-VPN-Compliant ×)	Security Groups Select from list	~+	Hits 27	Action:
 € Stat Q Sea 	Rule Name Arch FTD-VPN-POSTURE- COMPLIANT FTD-VPN-POSTURE- COMPLIANT	Cond	Itions Session PostureStatus EQUALS Compliant A InternatUser-IdentityGroup EQUALS User Identity Groups:RADIUS-FTD2-ANYCONNECT b Session PostureStatus EQUALS NonCompliant	Results Profiles (FTD-VPN-Compliant ×)	Security Groups Select from list	~+	Hits 27	Action:
 ◆ Stat Q Sea ● 	tus Rule Name Arch FTD-VPN-POSTURE- COMPLIANT FTD-VPN-POSTURE- NONCOMPLIANT	Cond AND AND	Lions Session PostureStatus EQUALS Compliant A InternalUser-IdentityGroup EQUALS User Identity Groups:RADIUS-FTD2-ANYICONNECT L Session PostureStatus EQUALS NonCompliant A InternalUser-IdentityGroup EQUALS User Identity Groups:RADIUS-FTD2-ANYICONNECT A InternalUser-IdentityGroup EQUALS User Identity Groups:RADIUS-FTD2-ANYICONNECT	Results Profiles (FTD-VPN-Compliant ×) (FTD-VPN-NONCOMPLL, ×)	Security Groups Select from list Select from list	~+ ~+	Hits 27 0	Actions ©
 € Stat Q Sea 0 0 	Rule Name arch FTD-VFN-POSTURE- COMPLIANT FTD-VFN-POSTURE- NONCOMPLIANT FTD-VFN-POSTURE- TTD-VFN-POSTURE-	Cond AND AND	Session PostureStatus EQUALS Compliant A Session PostureStatus EQUALS User Identity Groups:RADIUS-FTD2-ANYCONNECT b Session PostureStatus EQUALS User Identity Groups:RADIUS-FTD2-ANYCONNECT	Results Profiles (FTD-VPN-Compliant ×) (FTD-VPN-NONCOMPLL. ×)	Select from list	~+ ~+	Hits 27 0	Action:

Configure a Remote Access VPN Group Policy with ISE Posture Module in the Management Center

Before you begin

Configure a remote access VPN policy in the management center.

Procedure

Step 1	Log in to your management center web interface.
Step 2	Choose Devices > Remote Access .
Step 3	Select a remote access VPN policy, and click Edit.
Step 4	Select a connection profile, and click Edit.
Step 5	Click Edit Group Policy.
Step 6	Click the Secure Client tab.
Step 7	Click Client Modules, and click +.
Step 8	Choose the ISE Posture module from the Client Module drop-down list.
Step 9	Choose the ISE profile from the Profile to download drop-down list.
Step 10	Check the Enable module download check box.
Step 11	Click Add.

Edit Group Policy		0
Name:* DfltGrpPolicy Description: General Secure	Client Advanced	
Profile Management Profile Client Modules	Download optional client modules download from the Firewall Threa configured here.	s to the endpoint. Secure Client requests at Defense of only the modules that are
SSL Settings	Client Module Prof	ile Download
Connection Settings Custom Attributes	ISE Posture ISEP	ostureCFG.xml



What to do next

- 1. Deploy the configuration on the threat defense. On the management center menu bar, click **Deploy** and then select **Deployment**.
- 2. Establish a VPN connection to the threat defense using the Secure Client.
- 3. Verify ISE posture module configuration.

Verify ISE Posture Module Configuration

On the Threat Defense

Use the following commands on the threat defense CLI to verify the ISE posture module configuration:

show run webvpn: View details of the Secure Client configurations.

```
> show run webvpn
webvpn
enable Outside
http-headers
 hsts-server
  enable
  max-age 31536000
  include-sub-domains
  no preload
 hsts-client
  enable
 x-content-type-options
 x-xss-protection
 content-security-policy
 anyconnect image disk0:/csm/cisco-secure-client-win-5.0.03072-
webdeploy-k9.pkg 1 regex "Windows"
anyconnect profiles ISEPostureCFG.xml disk0:/csm/ISEPostureCFG.xml
 anyconnect profiles raftd1.xml disk0:/csm/raftd1.xml
anyconnect enable
tunnel-group-list enable
cache
 disable
error-recovery disable
```

show run group-policy <ravpn_group_policy_name>: View details of the RA VPN group policy for Secure
Client.

```
show run group-policy AC-Posture
group-policy AC-Posture internal
group-policy AC-Posture attributes
banner none
wins-server none
dns-server none
dhcp-network-scope none
vpn-simultaneous-logins 3
vpn-idle-timeout 30
vpn-idle-timeout alert-interval 1
vpn-session-timeout none
vpn-session-timeout alert-interval 1
vpn-filter none
vpn-tunnel-protocol ikev2 ssl-client
split-tunnel-policy tunnelall
ipv6-split-tunnel-policy tunnelall
split-tunnel-network-list none
default-domain none
split-dns none
split-tunnel-all-dns disable
client-bypass-protocol disable
vlan none
address-pools none
webvpn
 anyconnect ssl dtls enable
 anyconnect mtu 1406
 anyconnect firewall-rule client-interface public none
 anyconnect firewall-rule client-interface private none
 anyconnect ssl keepalive 20
 anyconnect ssl rekey time none
 anyconnect ssl rekey method none
 anyconnect dpd-interval client 30
 anyconnect dpd-interval gateway 30
 anyconnect ssl compression none
 anyconnect dtls compression none
 anyconnect modules value iseposture
 anyconnect profiles value ISEPostureCFG.xml type iseposture
 anyconnect ask none default anyconnect
 anyconnect ssl df-bit-ignore disable
```

show run aaa-server: View details of the ISE server.

```
Verify ISE Posture Module Configuration
```

```
> show run aaa-server
aaa-server ISE protocol radius
authorize-only
interim-accounting-update periodic 24
dynamic-authorization
aaa-server ISE (Inside) host 
key *****
authentication-port 1812
accounting-port 1813
```

On the Endpoint

Establish a VPN connection to the threat defense using the Secure Client and verify the ISE posture module installation.

Sisco Secure Client				×
¢	AnyConnect VPN: Connected to vpn.remoteftd2.com. vpn.remoteftd2.com		Disconnect	
00:00:31			IP	v4
	ISE Posture: Compliant. Network access allowed.			
		_		

Related Documentation:

- Cisco Identity Services Engine Administrator Guides
- Secure Firewall Management Center Administration and Device Configuration Guides
- Cisco Secure Client Administration Guides

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