

配置2.2客戶端調配和應用程式

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簡介

本文檔介紹如何配置身份服務引擎(ISE)2.2上的應用可視性並對其進行故障排除。應用可視性允許您監控終端上安裝的應用、基於該資訊建立策略以及在狀態檢查期間終止或解除安裝滿足指定條件的應用。AnyConnect定期向ISE傳送包含已安裝/正在運行的應用程式和進程清單的資訊。

AnyConnect可以收集有關所有應用程式或指定類別（瀏覽器、加密等）中應用程式的資訊。

必要條件

需求

思科建議您瞭解以下主題的基本知識：

- 思科身分識別服務引擎
- 客戶端調配
- ISE狀態

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 思科身分識別服務引擎版本2.2.0.470
- Cisco AnyConnect 4.4.00243
- AnyConnect合規性模組4.2.468.0
- Windows 7 Service Pack 1

設定

組態

第1部分。配置客戶端調配

步驟1.上傳AnyConnect軟體包

1.導航到Policy > Policy Elements > Results > Client Provisioning > Results on ISE。按一下Add > Agent resources from local disk:

2.選擇**Category**作為Cisco提供的包，然後選擇**File**（AnyConnect包）：

Agent Resources From Local Disk

Category ⓘ

anyconnect-w...ploy-k9.pkg

AnyConnect Uploaded Resources

Name	Type	Version	Description
AnyConnectDesktopWindows 4.4.24...	AnyConnectDesktopWindows	4.4.243.0	AnyConnect Secure Mobility Clie...

按一下**Submit**儲存更改。

您應該被要求確認已上傳包的校驗和。將它們與思科網站上提供的校驗和進行比較，確保軟體包未損壞。

步驟2.下載AnyConnect合規性模組

在「客戶端布建」的「結果」頁面上，按一下**Add > Agent resources from Cisco site**，彈出一個包含可用模組的視窗。選擇所需的**AnyConnect Compliance Module for Windows**，然後按一下**Save**。

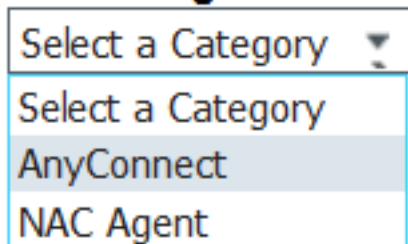
或者，如果您的ISE上沒有Internet連線，您可以從cisco.com下載最新的合規性模組，然後以與AnyConnect軟體包相同的方式將其上傳到ISE。

如果您的網路中有代理，請在**Administration > System > Settings > Proxy**頁面進行設定。

步驟3.建立狀態配置檔案

在「客戶端調配」的「結果」頁面中，按一下Add > NAC Agent or AnyConnect Posture Profile，然後從狀態代理配置檔案設定中選擇AnyConnect:

Posture Agent Profile Settings

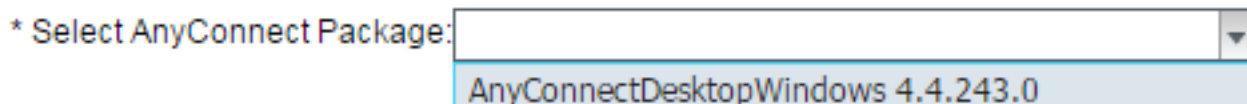


A screenshot of a dropdown menu titled "Posture Agent Profile Settings". The menu is open, showing three options: "Select a Category", "AnyConnect", and "NAC Agent". The "AnyConnect" option is highlighted with a blue background.

命名配置檔案並填寫必填欄位。按一下Submit儲存配置檔案。

步驟4.建立AnyConnect配置

在Client Provisioning的Results頁面上，按一下Add > AnyConnect Configuration，然後選擇在步驟1中上傳的包：



A screenshot of a dropdown menu labeled "* Select AnyConnect Package:". The menu is open, showing one option: "AnyConnectDesktopWindows 4.4.243.0". The option is highlighted with a blue background.

應載入其他選項。填寫所有必填欄位，然後按一下Submit儲存更改：

* Select AnyConnect Package: AnyConnectDesktopWindows 4.4.243.0
* Configuration Name: AnyConnect Configuration
Description:
DescriptionValue
* Compliance Module: AnyConnectComplianceModuleWindows 4.2.468.0

AnyConnect Module Selection

- ISE Posture
- VPN
- Network Access Manager
- Web Security
- AMP Enabler
- ASA Posture
- Network Visibility
- Umbrella Roaming Security
- Start Before Logon
- Diagnostic and Reporting Tool

Profile Selection

* ISE Posture: AnyConnect Posture
VPN
Network Access Manager
Web Security
AMP Enabler
Network Visibility
Umbrella Roaming Security
Customer Feedback

Customization Bundle
Localization Bundle

Configuration Name — 配置的名稱。這用於客戶端調配策略（下一步）。

合規性模塊 — 選擇在步驟2中下載的合規性模組。

ISE狀態 — 選擇在步驟3中建立的AnyConnect狀態配置檔案。

步驟5.配置客戶端調配策略

導航到Policy > Client Provisioning。為Windows建立新策略或編輯現有策略，選擇建立的AnyConnect配置作為結果：

步驟6.為CP建立授權配置檔案

導航到Policy > Policy Elements > Results > Authorization > Authorization Profiles，然後點選Add以建立新配置檔案。將其配置為重定向到客戶端調配門戶：

Authorization Profiles > **New Authorization Profile**

Authorization Profile

* Name

Description

* Access Type

Network Device Profile

Service Template

Track Movement

Passive Identity Tracking

Common Tasks

Web Redirection (CWA, MDM, NSP, CPP) ⓘ

ACL

Value

Static IP/Host name/FQDN

Auto Smart Port

Advanced Attributes Settings

Select an item



=



Attributes Details

Access Type = ACCESS_ACCEPT

cisco-av-pair = url-redirect-acl=ISE-REDIRECT

cisco-av-pair = url-redirect=https://ip:port/portal/gateway?sessionId=SessionIdValue&portal=4cb1f740-e371-11e6-92ce-005056873bd0&action=cpp

按一下Submit儲存配置檔案。

請記住，應該在NAD (網路存取裝置) 上建立redirect-acl(在本範例中稱為ISE-REDIRECT)，以進行正確的重新導向。基本重定向ACL不應攔截往返於ISE PSN節點、

DNS和DHCP的流量。且應重定向HTTP和HTTPS流量。可以在以下檔案中找到示例 ACL:WLC和ISE上的中央Web驗證配置示例和[使用交換機和身份服務引擎的中央Web驗證配置示例](#)

步驟7.配置授權策略

導航到Policy > Authorization，建立2個策略並檢查狀態狀態：

<input checked="" type="checkbox"/>	POSTURED	if Session:PostureStatus EQUALS Compliant	then PermitAccess
<input checked="" type="checkbox"/>	CPP_REDIRECT	if Session:PostureStatus NOT_EQUALS Compliant	then CPP_REDIRECT

使用此類配置時，如果終端尚未安裝AnyConnect或尚未完成安全評估，則會將其重定向到客戶端調配門戶。終端使用者可以從ISE安裝AnyConnect，AnyConnect可以檢測ISE並檢查狀態。

按一下「Save」。

第2部分。配置狀態

步驟1.更新狀態

導航到Administration > Settings > Posture > Updates，然後點選Update Now以更新Posture。它包含應用程式的OPSWAT圖表和定義，是策略建立所必需的。

The screenshot shows the 'Posture Updates' configuration page. On the left is a navigation menu with 'Posture' expanded. The main content area has 'Web' selected with a radio button. The 'Update Feed URL' field contains 'https://www.cisco.com/web/secure/pmbu/posture-update.xml'. Below it are 'Proxy Address' and 'Proxy Port' fields. A checkbox for 'Automatically check for updates' is unchecked. The update schedule is configured as 'every 2 hours' with an initial delay of 22 hours, 47 minutes, and 12 seconds. At the bottom are 'Save', 'Update Now', and 'Reset' buttons.

或者，如果您的ISE上沒有Internet連線，您可以從 <https://www.cisco.com/web/secure/pmbu/posture-offline.html> 下載最新的終端安全評估更新，然後導航到Administration > System > Settings > Posture > Updates，選擇Offline並選擇帶有終端安全評估更新的下載檔案。按一下Update Now以上傳檔案並安裝狀態更新。

步驟2.建立應用程式條件

AnyConnect僅使用4.x (或更高版本) 的Compliance Module收集有關已安裝應用程式的資訊。

對於3.x版本的Compliance Module，只能執行進程檢查 (這意味著AnyConnect檢查指定的進程是否正在運行)。

使用Application State，可以配置以下組合：

- 已安裝+正在運行 — AnyConnect收集有關當前運行進程的資訊，以收集安裝資訊
- 已安裝+未運行 — AnyConnect僅收集安裝資訊

在Provision by下，可以選擇：Everything、Name和Category:

- 如果選擇Everything，則AnyConnect將嘗試收集有關所有已安裝應用程式的資訊
- 如果選擇了名稱，則可以為策略選擇特定應用程式。例如：

Provision by

At least one category must be selected *

Unclassified Data Loss Prevention Data Storage
 Browser Backup Patch Management
 Encryption Antiphishing VPN Client
 Anti-Malware Virtual Machine Firewall
 Messenger Public File Sharing Health Agent

Vendor *

At least one product must be selected *

Selected Rows/Page 1 / 1 3 Total Rows

<input type="checkbox"/>	Product Name	Version
<input checked="" type="checkbox"/>	Anvi Smart Defender	1.x
<input type="checkbox"/>	Anvi Smart Defender	2.x
<input type="checkbox"/>	Anvi Smart Defender	ANY

- 如果選擇Category，則AnyConnect從指定類別收集有關所有應用程式的資訊。例如：

Provision by

At least one category must be selected *

Unclassified Data Loss Prevention Data Storage
 Browser Backup Patch Management
 Encryption Antiphishing VPN Client
 Anti-Malware Virtual Machine Firewall
 Messenger Public File Sharing Health Agent

要收集有關已安裝以及正在Policy > Policy Elements > Conditions > Posture > Application Condition運行的應用程式的資訊，請單擊Add以建立新條件並填寫所需欄位，如下所示：

Application Condition > New

Name *

Description

Operating System *

Compliance module

Check By *

Application State * Installed Running

Provision by

Cancel

Submit

步驟3.建立狀態要求

在Policy > Policy Elements > Results > Posture > Requirements中，使用建立的應用程式條件建立新要求：

Name	Operating Systems	Compliance Module	Stealth Mode	Conditions	Remediation Actions
USB_Block	for Windows All	using 4.x or later	using Disabled	met if USB_Check	then USB_Block
Apps_collection	for Windows All	using 4.x or later	using Disabled	met if Apps_Collection	then Message Text Only
Any_AV_Installation_Mac	for Mac OSX	using 3.x or earlier	using Disabled	met if ANY_av_mac_inst	then Message Text Only
Any_AV_Definition_Mac	for Mac OSX	using 3.x or earlier	using Disabled	met if ANY_av_mac_def	then AnyAVDefRemediationMac
Any_AS_Installation_Mac	for Mac OSX	using 3.x or earlier	using Disabled	met if ANY_as_mac_inst	then Message Text Only
Any_AS_Definition_Mac	for Mac OSX	using 3.x or earlier	using Disabled	met if ANY_as_mac_def	then AnyASDefRemediationMac

步驟4.建立狀態策略

要啟用ISE和AnyConnect以收集有關應用的資訊，應將具有應用條件的要求包含在終端安全評估策略中。可在Policy > Posture中建立終端安全評估策略。如果要收集資訊以供進一步使用，則要求可以設定為Audit。

Posture Policy

Define the Posture Policy by configuring rules based on operating system and/or other conditions.

Status	Rule Name	Identity Groups	Operating Systems	Compliance Module	Stealth mode	Other Conditions	Requirements
<input checked="" type="checkbox"/>	Apps	Any	Windows All	4.x or later	Disabled	(Optional) Dictionary	Apps_collection

Apps_collection

- Mandatory
- Optional
- Audit

第5步 (可選)。更改連續監視間隔

ISE允許您配置AnyConnect向ISE傳送有關應用的更新的頻率。預設情況下，間隔設定為5分鐘，可在Administration > Settings > Posture > General Settings進行更改：

Posture General Settings ⓘ

Remediation Timer	<input type="text" value="4"/>	Minutes ⓘ
Network Transition Delay	<input type="text" value="3"/>	Seconds ⓘ
Default Posture Status	<input type="text" value="Compliant"/>	ⓘ
<input type="checkbox"/> Automatically Close Login Success Screen After	<input type="text" value="0"/>	Seconds ⓘ
<input checked="" type="checkbox"/> Continuous Monitoring Interval	<input type="text" value="5"/>	Minutes ⓘ
Acceptable Use Policy in Stealth Mode	<input type="text" value="Block"/>	

Posture Lease

- Perform posture assessment every time a user connects to the network
- Perform posture assessment every Days ⓘ

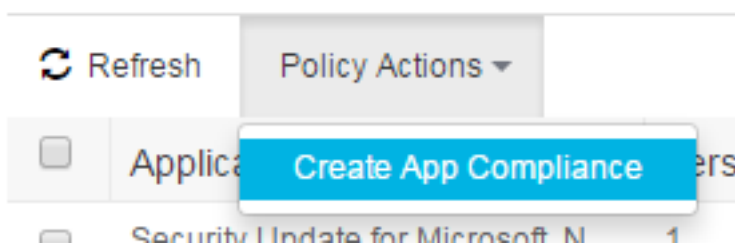
第6步（可選）。建立應用程式合規性

從終結點收集資料後，可以在情景可視性>終結點> [ENDPOINT]中建立應用程式合規性：

1. 選擇應用程式：

<input type="checkbox"/>	Windows Media Player	12.0.7601.23517	Microsoft Corporation	Unidentified	C:\Program Files\winru...
<input checked="" type="checkbox"/>	FileZilla	3.8.1.0	FileZilla Project	FileShare	C:\Program Files (x86)...
<input type="checkbox"/>	Security Update for Microsoft N...		Microsoft Corporation	Unidentified	

2. 按一下Policy Actions > Create App Compliance



3. 在彈出視窗中填寫欄位：

Create Posture Application Compliance

Application Names *

Version 3.8.1.0 ANY

Compliance Name *

Description

Operating System * MacOSX Windows

Compliance module

Condition

Application State * Installed Running

Remediation

Remediation Type

Interval *

Retry Count *

Remediation Option * Uninstall Kill Process

Note: By default the above Condition & Remediation would be linked as a requirement.

Posture Policy
Posture Policy will be defined by configuring rules based on operating system and/or other conditions.

Identity Groups *

Cancel
Save Policy

4. 按一下**Save Policy**，應建立以下專案：狀態應用條件狀態應用補救操作狀態要求狀態策略

驗證

使用本節內容，確認您的組態是否正常運作。

即時日誌

在RADIUS LiveLogs中，此流量看起來與常規狀態流量類似：**身份驗證+重定向到調配門戶>授權更改(CoA)>符合性狀態策略匹配。**

Time	Status	Details	Repeat ...	Identity	Endpoint ID	Posture St...	Endpoint P...	Authenticat...	Authorizati...	Authorizati...	IP Address
Jan 04, 2017 07:59:07.655 PM	●		1	cisco	C0-4A:00:15:75:C8	Compliant	Microsoft-W...	Default >> D...	Default >> p...	PermitAccess	10.62.148.162
Jan 04, 2017 07:19:16.732 PM	■			cisco	C0-4A:00:15:75:C8	Compliant	Microsoft-W...	Default >> D...	Default >> p...	PermitAccess	
Jan 04, 2017 07:19:16.097 PM	■				C0-4A:00:15:75:C8	Compliant					
Jan 04, 2017 07:19:02.205 PM	■			cisco	C0-4A:00:15:75:C8	Pending	Microsoft-W...	Default >> D...	Default >> C...	CPP	

終端

在客戶端調配（如果之前未調配AnyConnect）和連續監控間隔配置之後，資料收集過程可以在**情景可視性>終端**中驗證。點選終端的MAC地址，終端頁面應開啟。它包含有關終端本身上安裝的應用

程式的資訊：

C0: >8

MAC Address: C0:4 :8
Username: cisco
Endpoint Profile: Microsoft-Workstation
Current IP Address: 10 62
Location: Location → All Locations

Applications Attributes Authentication Threats Vulnerabilities

Refresh Policy Actions Filter

Application Name	Version	Vendor	Running process	Category	Install Path
Security Update for Microsoft .N...	1	Microsoft Corporation		Unclassified	
Security Update for Microsoft .N...	1	Microsoft Corporation		Unclassified	
Microsoft .NET Framework 4.6.1	4.6.31005	Microsoft Corporation		Unclassified	C:\Windows\Microsoft...
Google Update Helper	1.3.24.15	Google Inc.		Unclassified	
Windows Update Agent	7.6.7601.19161	Microsoft Corporation		PatchManagement	C:\Windows\System32\
Cisco AnyConnect ISE Complia...	4.2.468.0	Cisco Systems, Inc		Unclassified	C:\Program Files (x86)...
DAEMON Tools Lite	4.49.1.0356	Disc Soft Ltd		Unclassified	C:\Program Files (x86)...
Tftp32 Standalone Edition (re...	0.0			Unclassified	
Security Update for Microsoft .N...	1	Microsoft Corporation		Unclassified	
VMware Tools	9.4.15.2827462	VMware, Inc.	2	Unclassified	C:\Program Files\VMw...
BitLocker Drive Encryption	6.1.7600.16385	Microsoft Corporation		DiskEncryption	C:\Windows\System32\
Cisco AnyConnect Diagnostics ...	4.4.00209	Cisco Systems, Inc.		Unclassified	C:\Program Files (x86)...
Cisco AnyConnect Secure Mobi...	4.4.00209	Cisco Systems, Inc.	5	Unclassified	C:\Program Files (x86)...
Java Auto Updater	2.8.91.15	Oracle Corporation		Unclassified	
Mozilla Firefox	47.0.2	Mozilla Corporation		AntiPhishing_Browser	C:\Program Files (x86)...
Microsoft Visual C++ 2008 Redi...	9.0.30729.4148	Microsoft Corporation		Unclassified	
Java 8 Update 91	8.0.910.15	Oracle Corporation		Unclassified	C:\Program Files (x86)...
Google Chrome	55.0.2883.87	Google Inc.		AntiPhishing_Browser	C:\Program Files (x86)...
Cisco AnyConnect Profile Editor	4.1.08005	Cisco Systems, Inc.		Unclassified	C:\Program Files (x86)...
Java	8.0.910.15	Oracle Corporation		Unclassified	C:\Program Files (x86)...
Internet Explorer	11.0.9600.18524	Microsoft Corporation		AntiPhishing_Browser	C:\Program Files\Inter...
Wireshark	1.10.7	The Wireshark developer comm...		Unclassified	C:\Program Files (x86)...
Windows Backup and Restore	6.1.7600.16385	Microsoft Corporation		BackupClient	C:\Windows\System32\
Windows Media Player	12.0.7601.23517	Microsoft Corporation	1	Unclassified	C:\Program Files\Wind...
FileZilla	3.8.1.0	FileZilla Project		FileShare	C:\Program Files (x86)...
Security Update for Microsoft .N...	2	Microsoft Corporation		Unclassified	
Java 7 Update 79	7.0.790	Oracle		Unclassified	C:\Program Files (x86)...

由於 [CSCve82743](#)，您需要訪問終端兩次並點選Refresh以呈現應用程式表。

狀態策略元素

應使用「建立應用遵循性」選項建立這些元素：

- 狀態應用條件
- 狀態應用補救操作
- 狀態要求
- 狀態策略

可以通過ISE GUI驗證每個配置。條件位於Policy > Policy Elements > Conditions > Posture > Application Condition:

Application Condition

Rows/Page 25 / 1 / 1 Go 11 Total Rows

Name	Description	Application State	Compliance module	Categories	Check
Apps_Collection		Installed	4.x or later	Anti-Malware	APPLIC
FileZilla-Uninstall		Installed	4.x or later	Public File Sharing	APPLIC
Notepadplus		Installed and Running	4.x or later	Unclassified	APPLIC

修正位於Policy > Policy Elements > Results > Posture > Remediation Actions > Application Remediations:

Application Remediation

Rows/Page 2 / 1 / 1 Go 2 Total Rows

Name	Description	Application State	Compliance module	Categories
Notepadplus_Remediation			4.x or later	
FileZilla-Uninstall_Remediation			4.x or later	

要求位於Policy > Policy Elements > Results > Posture > Requirements:

Name	Identity Groups	Operating Systems	Compliance Module	Stealth mode	Other Conditions	Requirements
FileZilla-Uninstall_Requirement	for Windows All	using 4.x or later	using Standard	met if FileZilla-Uninstall	then FileZilla-Uninstall_Remediation	

策略位於Policy > Posture:

Posture Policy

Define the Posture Policy by configuring rules based on operating system and/or other conditions.

Status	Rule Name	Identity Groups	Operating Systems	Compliance Module	Stealth mode	Other Conditions	Requirements
✓	FileZilla-Uninstall_Policy	Any	Windows All	4.x or later	Disabled		FileZilla-Uninstall_Requirement
✗	Mandatory_Running	Any	Windows All	4.x or later	Disabled		Mandatory_Running

報告

來自每個端點的每個狀態報告都儲存在ISE上，並且可以從操作>報告中進行檢查。有多種安全狀態報告：

- 終端安全評估提供特定終端安全評估合規性的詳細資訊。
- Posture Assessment by Condition — 它提供有關狀態策略條件的詳細資訊。它顯示哪些條件失敗，哪些條件通過。僅顯示Mandatory和Optional條件。

按條件進行的狀態評估

「按條件進行的狀態評估」如下所示。在此示例中，其中一個強制條件失敗，因此狀態變為「不符合」：

Timestamp	Status	User	IP	Result	Policy	IP	Location
2017-01-24 17:20:57...	Failed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 17:05:59...	Failed	alice	C0:4A:00:15:75:C8	Failed	fs_visInst_v4_FileZilla_ANY	10.62.148.136	All Locations
2017-01-24 17:05:59...	Failed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 17:01:22...	Failed	alice	C0:4A:00:15:75:C8	Failed	fs_visInst_v4_FileZilla_ANY	10.62.148.136	All Locations
2017-01-24 17:01:22...	Failed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 16:56:44...	Failed	alice	C0:4A:00:15:75:C8	Failed	fs_visInst_v4_FileZilla_ANY	10.62.148.136	All Locations
2017-01-24 16:56:44...	Failed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 16:52:08.77	Failed	alice	C0:4A:00:15:75:C8	Failed	fs_visInst_v4_FileZilla_ANY	10.62.148.136	All Locations
2017-01-24 16:52:08.77	Failed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 16:17:24.78	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 15:46:33.24	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 15:45:57...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 13:45:04...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 12:43:45...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 12:43:10...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 12:42:35...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 12:41:59.22	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations
2017-01-24 11:41:14...	Passed	alice	C0:4A:00:15:75:C8	Passed	uc_visRun_v4_Notepad_ANY	10.62.148.136	All Locations

終端安全評估

終端安全評估：

Timestamp	Status	User	IP	Result	Policy	IP	Location
2017-01-24 18:17:40.993	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 18:10:44.127	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 18:00:57.393	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:55:39.642	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:46:25.969	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:40:35.05	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:25:38.766	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:20:57.331	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:05:59.534	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 17:01:22.737	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 16:56:44.516	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 16:52:08.77	Failed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 16:17:24.78	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 15:46:33.24	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 15:45:57.783	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 13:45:04.109	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 12:43:45.326	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit
2017-01-24 12:43:10.551	Passed	N/A	alice		C0:4A:00:15:75:C8	10.62.148.136	Windows 7 Enterprise 64-bit

每個狀態檢查的詳細資訊可以通過點選詳細資訊報告圖示來檢查 — 

疑難排解

本節提供的資訊可用於對組態進行疑難排解。

從ISE

ise-psc.log包含所有終端安全評估相關資訊，包括調試。可以在Administration > System > Logging > Debug Log Configuration中啟用狀態調試。元件名稱為posture:

Local Log Settings

Remote Logging Targets

Logging Categories

Message Catalog

Debug Log Configuration

Collection Filters

Node List > ise22-pri.example.com

Debug Level Configuration

Edit
 Reset to Default

Component Name	Log Level	Description
<input type="radio"/> pamdovec	INFO	Pamdovec related messages
<input type="radio"/> PassiveID	INFO	PassiveID events and messages
<input type="radio"/> policy-engine	INFO	Policy Engine 2.0 related messages
<input type="radio"/> portal	INFO	Portal (Guest, Hotspot, BYOD, CP) debug messages
<input type="radio"/> portal-session-manager	INFO	Portal Session Manager debug messages
<input type="radio"/> portal-web-action	INFO	Base Portal debug messages
<input type="radio"/> posture	DEBUG	Posture debug messages
<input type="radio"/> previewportal	INFO	Preview Portal debug messages

終端連線到網路並且AnyConnect連線到ISE後，ISE檢查是否應根據配置的狀況檢查檢查EP，並檢測安裝在EP上的合規性模組的版本。根據收集的資訊，ISE為EP - NAC代理xml生成狀態查詢並對其進行加密。之後，ISE將此查詢傳送到AnyConnect。

```

2017-01-04 19:19:13,686 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco::- About to query posture policy for user
cisco with endpoint mac C0-4A-00-15-75-C8
2017-01-04 19:19:13,687 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PostureManager -:cisco::- agentCMVersion=4.2.468.0,
agentType=AnyConnect Posture Agent, groupName=OESIS_V4_Agents -> found agent group with
displayName=4.x or later
2017-01-04 19:19:13,687 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- User cisco belongs to groups NAC
Group:NAC:IdentityGroups:Endpoint Identity Groups:Profiled:Workstation,NAC
Group:NAC:IdentityGroups:Any
2017-01-04 19:19:13,687 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- About to retrieve posture policy
resources for os 7 Enterprise, agent group 4.x or later and identity groups [NAC
Group:NAC:IdentityGroups:Endpoint Identity Groups:Profiled:Workstation, NAC
Group:NAC:IdentityGroups:Any]
2017-01-04 19:19:13,687 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Evaluate resourceId NAC
Group:NAC:Posture:PosturePolicies:Apps by agent group with FQN NAC
Group:NAC:AgentGroupRoot:ALL:OESIS_V4_Agents
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- The evaluation result by agent group for
resourceId NAC Group:NAC:Posture:PosturePolicies:Apps is Permit
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Evaluate resourceId NAC
Group:NAC:Posture:PosturePolicies:Apps by OS group with FQN NAC
Group:NAC:OsGroupRoot:ALL:WINDOWS_ALL:WINDOWS_7_ALL:WINDOWS_7_ENTERPRISE_ALL
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- stealth mode is 0
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- The evaluation result by os group for
resourceId NAC Group:NAC:Posture:PosturePolicies:Apps is Permit
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Evaluate resourceId NAC
Group:NAC:Posture:PosturePolicies:Apps by Stealth mode NSF group with FQN NAC
Group:NAC:StealthModeStandard
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Procesing obligation with posture policy
resource with id NAC Group:NAC:Posture:PosturePolicies:Apps
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Found obligation id
urn:cisco:cepm:3.3:xacml:response-qualifier for posture policy resource with id NAC
Group:NAC:Posture:PosturePolicies:Apps

```

```
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Found obligation id PostureReqs for
posture policy resource with id NAC Group:NAC:Posture:PosturePolicies:Apps
2017-01-04 19:19:13,688 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil -:cisco::- Posture policy resource id Apps has
following associated requirements []
2017-01-04 19:19:13,720 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cpm.posture.runtime.agent.AgentXmlGenerator -:cisco::- policy enforcemnt is 2
2017-01-04 19:19:13,720 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cpm.posture.runtime.agent.AgentXmlGenerator -:cisco::- simple condition: [Name=Apps_Collection,
Description=null, Application State =installed,running, Provision By =Everything, monitory
Categories = []]
2017-01-04 19:19:13,720 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cpm.posture.runtime.agent.AgentXmlGenerator -:cisco::- check type is ApplicationVisibility
2017-01-04 19:19:13,800 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco::- NAC agent xml <?xml version="1.0"
encoding="UTF-8"?><cleanmachines>
  <version>ISE: 2.2.0.423</version>
  <encryption>0</encryption>
  <package>
    <id>12</id>
    <name>Apps_collection</name>
    <description>Apps Check</description>
    <version/>
    <type>3</type>
    <optional>2</optional>
    <action>3</action>
    <check>
      <id>Apps_Collection</id>
      <category>12</category>
      <type>1202</type>
      <monitor>ALL</monitor>
      <evaluation>periodic</evaluation>
    </check>
    <criteria>(Apps_Collection)</criteria>
  </package>
</cleanmachines>
```

```
2017-01-04 19:19:13,800 INFO [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.StatusUtil -:cisco::- StatusUtil - getPosturePolicyHTML
[<cleanmachines><version>ISE:
2.2.0.423</version><encryption>0</encryption><package><id>12</id><name>Apps_collection</name><de
scription>Apps
Check</description><version/><type>3</type><optional>2</optional><action>3</action><check><id>Ap
ps_Collection</id><category>12</category><type>1202</type><monitor>ALL</monitor><evaluation>peri
odic</evaluation></check><criteria>(Apps_Collection)</criteria></package></cleanmachines>]
2017-01-04 19:19:13,800 INFO [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.StatusUtil -:cisco::- StatusUtil -getPosturePolicyHTML - do encrypt
2017-01-04 19:19:13,800 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.StatusUtil -:cisco::- Encrypting policy using AES key.
2017-01-04 19:19:13,800 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.CipherUtil -:cisco::- Encrypting message using AES.
2017-01-04 19:19:13,800 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.StatusUtil -:cisco::- IV Base 64: AeUQGbj6CP/jMB+cTIGIGQ==
2017-01-04 19:19:13,801 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.util.StatusUtil -:cisco::- StatusUtil.getPosturePolicyHTML() returns <!--X-
Perfigo-UserKey=--><!--X-Perfigo-Provider=Device Filter--><!--X-Perfigo-UserName=cisco--><!--
error=1010--><!--X-Perfigo-DM-Error=1010--><!--user role=--><!--X-Perfigo-OrigRole=--><!--X-
Perfigo-DM-Scan-Req=0--><!--X-ISE-IV=AeUQGbj6CP/jMB+cTIGIGQ==--><!--X-Perfigo-DM-Software-
List=f5aGq8rU5wx7hFS9WnugNhy/6HaSxNtKesoqAjYkecEk56t+I/J93PtAYU0XLq451NXQhReuFktImYEPEnWwOslbV5o
OTuTsY3kEbcuR4p5Sp0cfz/j98YEubNtSKDCUGt5U8dhpOJqMYTV4UcaSP/D0FXym10gFEjPxpPghyWcplzYwcpehIX+2vOY
OSzPTEvM2kDdHTkof+/UYvBfGv8Y7YkK9P61upfSedIqdynyxUbeqknXkoCaWvUawJLVWiXAJs2atsCwJjXitwNHyzCuH/mB
z/Y9AUvblCB/cutCeyVC17ij8wtXUAt2NpKqeEj0CO0xnp5B35JTBfOSXHfVjL29E5JALaun6RR8yJlkd4apk7qflnjsu451
CHY/SbKTMnqjV5bNwXfuCBf++X6X/mh0nwk+r2iWhJfJfymNxBm2BvcJAJXOKOV7xHIhgmLj+etF4Sss/zwnFT4+WTzKI+Bp
```



```
brVdnZjUP7+uvbQbIPtRFqJVI5StjZlIP4vLzFWKbWwXI+itTX6hjQvNhiT2zkwktvIboUZxAbV6yS5/+5cYMU3+EhWxIx/UVO
0o7sX--><!--X-Perfigo-DM-Session-Time=240-->
2017-01-04 19:19:13,801 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PosturePolicyUtil --:cisco:::- User cisco belongs to groups NAC
Group:NAC:IdentityGroups:Endpoint Identity Groups:Profiled:Workstation,NAC
Group:NAC:IdentityGroups:Any
2017-01-04 19:19:13,801 DEBUG [http-bio-10.48.26.60-8443-exec-9][]
cisco.cpm.posture.runtime.PostureHandlerImpl --:cisco:::- Sending response to endpoint C0-4A-00-
15-75-C8 http response [[ <!--X-Perfigo-UserKey=--><!--X-Perfigo-Provider=Device Filter--><!--X-
Perfigo-UserName=cisco--><!--error=1010--><!--X-Perfigo-DM-Error=1010--><!--user role=--><!--X-
Perfigo-OrigRole=--><!--X-Perfigo-DM-Scan-Req=0--><!--X-ISE-IV=AeUQGbj6CP/jMB+cTIGIGQ=---><!--X-
Perfigo-DM-Software-
List=f5aGq8rU5wx7hFS9WnugNhy/6HaSxNtKesoqAjYkecEk56t+I/J93PtAYU0XLq451NXQhReuFktImYEPENWwOs1bV5o
OTuTsY3kEbcuR4p5Sp0cfz/j98YEubNtSKDCUGt5U8dhpOJqMYTV4UcaSP/D0FXym10gFEjPxpPghyWcplzYwcpehIX+2vOY
OSzPTEvM2kDdHTkof+/UYvBfGv8Y7YkK9P61upfSedIqdynyxUbeqknXkoCaWvUawJLVWiXAJs2atsCwJjXitwNHyzCuH/mB
z/Y9AUvbLCB/cutCeyVCl7ij8wtXUAt2NpKqeEj0COOxnp5B35JTBfOSXHfVjL29E5JALaun6RR8yJlkd4apk7qflnjsu451
CHY/SbKTMnqjV5bNwXfucBf++X6X/mh0nwk+r2iWhJfYqmnXbm2BvcJAJXOKOV7xHIhgmLj+etF4Sss/zwnFT4+WTzKI+Bp
brVdnZjUP7+uvbQbIPtRFqJVI5StjZlIP4vLzFWKbWwXI+itTX6hjQvNhiT2zkwktvIboUZxAbV6yS5/+5cYMU3+EhWxIx/UVO
0o7sX--><!--X-Perfigo-DM-Session-Time=240--> ]]
2017-01-04 19:19:13,959 DEBUG [http-bio-10.48.26.60-8443-exec-5][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- receiving request from client
C0:4A:00:15:75:C8 10.62.148.162 bcu5ksw0
2017-01-04 19:19:13,966 DEBUG [http-bio-10.48.26.60-8443-exec-5][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Found the ipAddress that matched the http
request remote address 10.62.148.162 and corresponding client mac address C0-4A-00-15-75-C8
2017-01-04 19:19:13,966 DEBUG [http-bio-10.48.26.60-8443-exec-5][]
cisco.cpm.posture.runtime.PostureRuntimeFactory -:::- looking for Radius session with input
values : sessionId: 0a3e946500000066586d3c42, MacAddr: C0-4A-00-15-75-C8, ipAddr: 10.62.148.162
2017-01-04 19:19:13,966 DEBUG [http-bio-10.48.26.60-8443-exec-5][]
cisco.cpm.posture.runtime.PostureRuntimeFactory -:::- looking for session using session ID:
0a3e946500000066586d3c42, IP addrs: [10.62.148.162], mac Addrs [C0-4A-00-15-75-C8]
2017-01-04 19:19:13,966 DEBUG [http-bio-10.48.26.60-8443-exec-5][]
cisco.cpm.posture.runtime.PostureRuntimeFactory -:::- Found session using sessionId
0a3e946500000066586d3c42
```

來自AnyConnect的完整報告。此報告包含與已配置的應用程式條件匹配的所有已找到應用程式的資訊。

```
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- UDID is
766bb955e51e4ab063fd478c63acee81260ca592 for end point C0-4A-00-15-75-C8
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- os version from user agent is 1.2.1.6.1.4
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Received posture request [parameters:
reqtype=, userip=10.62.148.162, clientmac=C0-4A-00-15-75-C8, os=, osVerison=1.2.1.6.1.4,
architecture=, provider=, state=, userAgent=Mozilla/4.0 (compatible; WINDOWS; 1.2.1.6.1.4;
AnyConnect Posture Agent v.4.4.00209), session_id=
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Found a session info for endpoint C0-4A-00-
15-75-C8 cisco
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Got userid cisco from cache for endpoint C0-
4A-00-15-75-C8/
2017-01-04 19:19:37,358 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Report IV in Base64:
JjneGgZcJbmqMKQcy8kJg==
2017-01-04 19:19:37,359 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Using AES shared secret to decrypt report.
2017-01-04 19:19:37,359 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.util.CipherUtil -:::- Decrypting message using AES.
2017-01-04 19:19:37,359 DEBUG [http-bio-10.48.26.60-8443-exec-3][]
cisco.cpm.posture.runtime.PostureHandlerImpl -:::- Decrypted report [[
```

<report><version>1000</version><package><id>12</id><status>1</status><check><chk_id>Apps_Collection</chk_id><diff>0</diff><application><diff>0</diff><id></id><name>Adobe Flash Player 23 NPAPI</name><vendor>Adobe Systems Incorporated</vendor><version>23.0.0.207</version><category>Unclassified</category></application><application><diff>0</diff><id>104</id><name>Adobe Flash Player</name><vendor>Adobe Systems Inc.</vendor><version>23.0.0.207</version><path>C:\Windows\SysWOW64\Macromed\Flash</path><category>Unclassified</category></application><application><diff>0</diff><id>873</id><name>BitLocker Drive Encryption</name><vendor>Microsoft Corporation</vendor><version>6.1.7600.16385</version><path>C:\Windows\System32</path><category>DiskEncryption</category></application><application><diff>0</diff><id></id><name>Cisco AnyConnect Diagnostics and Reporting Tool</name><vendor>Cisco Systems, Inc.</vendor><version>4.4.00209</version><path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Secure Mobility Client\DART</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Cisco AnyConnect ISE Compliance Module</name><vendor>Cisco Systems, Inc.</vendor><version>4.2.468.0</version><path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Secure Mobility Client\opswat</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Cisco AnyConnect ISE Posture Module</name><vendor>Cisco Systems, Inc.</vendor><version>4.4.00209</version><path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Secure Mobility Client</path><category>Unclassified</category><process><diff>0</diff><pid>704</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnagent.exe</path><hash>7D7502DE53F0282A7AFC98BE89F54D39FDEC3FAC2A1F32674C76967ADC695E09</hash></process><process><diff>0</diff><pid>1296</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\aciseagent.exe</path><hash>7E156520C184334D473506FFE8A482997581ACF6ABD34231FDEDC2B9A3A12066</hash></process><process><diff>0</diff><pid>3076</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnui.exe</path><hash>0131258625A16B78125EB2081E8D5678671B6DE52DDA9E0813D4674618177DC3</hash></process><process><diff>0</diff><pid>3384</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\acise.exe</path><hash>8636F5761663A0EB9EDE263609B6AEF0EA52292E5B093AD4C453097583F365DD</hash></process><process><diff>0</diff><pid>15924</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\aciseposture.exe</path><hash>7FA4B3B6F688642E800AD53B865DBDCC163FBCA92D83482248DB068BA42192EA</hash></process></application><application><diff>0</diff><id></id><name>Cisco AnyConnect Profile Editor</name><vendor>Cisco Systems, Inc.</vendor><version>4.1.08005</version><path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Profile Editor</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Cisco AnyConnect Secure Mobility Client</name><vendor>Cisco Systems, Inc.</vendor><version>4.4.00209</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Cisco AnyConnect Secure Mobility Client</name><vendor>Cisco Systems, Inc.</vendor><version>4.4.00209</version><path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Secure Mobility Client</path><category>Unclassified</category><process><diff>0</diff><pid>704</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnagent.exe</path><hash>7D7502DE53F0282A7AFC98BE89F54D39FDEC3FAC2A1F32674C76967ADC695E09</hash></process><process><diff>0</diff><pid>1296</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\aciseagent.exe</path><hash>7E156520C184334D473506FFE8A482997581ACF6ABD34231FDEDC2B9A3A12066</hash></process><process><diff>0</diff><pid>3076</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnui.exe</path><hash>0131258625A16B78125EB2081E8D5678671B6DE52DDA9E0813D4674618177DC3</hash></process><process><diff>0</diff><pid>3384</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\acise.exe</path><hash>8636F5761663A0EB9EDE263609B6AEF0EA52292E5B093AD4C453097583F365DD</hash></process><process><diff>0</diff><pid>15924</pid><path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\aciseposture.exe</path><hash>7FA4B3B6F688642E800AD53B865DBDCC163FBCA92D83482248DB068BA42192EA</hash></process></application><application><diff>0</diff><id></id><name>Cisco NAC Agent</name><vendor>Cisco Systems, Inc.</vendor><version>4.9.5.10</version><path>C:\Program Files (x86)\Cisco\Cisco NAC

Agent\</path><category>Unclassified</category><process><diff>0</diff><pid>1444</pid><path>c:\program files (x86)\cisco\cisco nac
agent\nacagent.exe</path><hash>502EF2A864254A2DF555E029BE2C39E94B111E8B01534D7161826650DE4CEB4D</hash></process><process><diff>0</diff><pid>2320</pid><path>c:\program files (x86)\cisco\cisco nac
agent\nacagentui.exe</path><hash>DC617419F082BEAF26521E48CB410282631F93F1359E604A4D3D181A04FEE1FB</hash></process></application><application><diff>0</diff><id>293</id><name>DAEMON Tools Lite</name><vendor>Disc Soft Ltd</vendor><version>4.49.1.0356</version><path>C:\Program Files (x86)\DAEMON Tools Lite</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Digital Operatives PAINT Beta</name><vendor></vendor><version>0.0</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>FileZilla Server</name><vendor>FileZilla Project</vendor><version>beta 0.9.44</version><path>C:\Program Files (x86)\FileZilla Server\</path><category>Unclassified</category><process><diff>0</diff><pid>1408</pid><path>c:\program files (x86)\filezilla server\filezilla server.exe</path><hash>E8DB1409DB694A90C759F418346AE5D71014AE3513A8B865B50923AD0DFEE395</hash></process><process><diff>0</diff><pid>2348</pid><path>c:\program files (x86)\filezilla server\filezilla server interface.exe</path><hash>F57B0A7F4A9EBAACC1A67323EBB93D96FA910524FAE842953551DBA103EF71C5</hash></process></application><application><diff>0</diff><id>180</id><name>FileZilla</name><vendor>FileZilla Project</vendor><version>3.8.1.0</version><path>C:\Program Files (x86)\FileZilla FTP Client\</path><category>FileShare</category></application><application><diff>0</diff><id>39</id><name>Google Chrome</name><vendor>Google Inc.</vendor><version>55.0.2883.87</version><path>C:\Program Files (x86)\Google\Chrome\Application\</path><category>AntiPhishing, Browser</category></application><application><diff>0</diff><id></id><name>Google Update Helper</name><vendor>Google Inc.</vendor><version>1.3.24.15</version><category>Unclassified</category></application><application><diff>0</diff><id>100</id><name>Internet Explorer</name><vendor>Microsoft Corporation</vendor><version>11.0.9600.18524</version><path>C:\Program Files\Internet Explorer\</path><category>AntiPhishing, Browser</category></application><application><diff>0</diff><id></id><name>Java 7 Update 79</name><vendor>Oracle</vendor><version>7.0.790</version><path>C:\Program Files (x86)\Java\jre7\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Java 8 Update 91</name><vendor>Oracle Corporation</vendor><version>8.0.910.15</version><path>C:\Program Files (x86)\Java\jre1.8.0_91\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Java Auto Updater</name><vendor>Oracle Corporation</vendor><version>2.8.91.15</version><category>Unclassified</category></application><application><diff>0</diff><id>111</id><name>Java</name><vendor>Oracle Corporation</vendor><version>7.0.790.15</version><path>C:\Program Files (x86)\Java\jre7\bin\</path><category>Unclassified</category></application><application><diff>0</diff><id>111</id><name>Java</name><vendor>Oracle Corporation</vendor><version>8.0.910.15</version><path>C:\Program Files (x86)\Java\jre1.8.0_91\bin\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Microsoft .NET Framework 4.6.1</name><vendor>Microsoft Corporation</vendor><version>4.6.01055</version><path>C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache\v4.6.01055\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Microsoft Network Monitor 3.4</name><vendor>Microsoft Corporation</vendor><version>3.4.2350.0</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Microsoft Network Monitor: NetworkMonitor Parsers 3.4</name><vendor>Microsoft Corporation</vendor><version>3.4.2350.0</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.4148</name><vendor>Microsoft Corporation</vendor><version>9.0.30729.4148</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148</name><vendor>Microsoft Corporation</vendor><version>9.0.30729.4148</version><category>Unclassified</category></application><application><diff>0</diff><id>44</id><name>Mozilla Firefox</name><vendor>Mozilla Corporation</vendor><version>47.0.2</version><path>C:\Program Files (x86)\Mozilla Firefox\</path><category>AntiPhishing, Browser</category><process><diff>0</diff><pid>8292</pid><path>c:\program files (x86)\mozilla firefox\firefox.exe</path><hash>47F80E4FC4C43FAF468D94F5D51AAC78A125CC720FCBEA0B88B5F29D06719CE9

</hash></process></application><application><diff>0</diff><id></id><name>Mozilla Maintenance Service</name><vendor>Mozilla</vendor><version>47.0.2.6148</version><category>Unclassified</category></application><application><diff>0</diff><id>298</id><name>Notepad++</name><vendor>Notepad++ Team</vendor><version>6.63</version><path>C:\Program Files (x86)\Notepad++\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3122661)</name><vendor>Microsoft Corporation</vendor><version>1</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3127233)</name><vendor>Microsoft Corporation</vendor><version>1</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3136000v2)</name><vendor>Microsoft Corporation</vendor><version>2</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3142037)</name><vendor>Microsoft Corporation</vendor><version>1</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3143693)</name><vendor>Microsoft Corporation</vendor><version>1</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Security Update for Microsoft .NET Framework 4.6.1 (KB3164025)</name><vendor>Microsoft Corporation</vendor><version>1</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>TP-LINK TL-WDN3200 Driver</name><vendor>TP-LINK</vendor><version>1.1.0</version><path>C:\Program Files (x86)\TP-LINK\TP-LINK Wireless Configuration Utility and Driver\</path><category>Unclassified</category></application><application><diff>0</diff><id></id><name>Tftpd32 Standalone Edition (remove only)</name><vendor></vendor><version>0.0</version><category>Unclassified</category></application><application><diff>0</diff><id></id><name>VMware Tools</name><vendor>VMware, Inc.</vendor><version>9.4.15.2827462</version><path>C:\Program Files\VMware\VMware Tools\</path><category>Unclassified</category><process><diff>0</diff><pid>952</pid><path>c:\program files\vmware\vmware tools\vmtoolsd.exe</path><hash>5C642EF7F4EF65A0445B2C2CD227F9431835712EE7F1BD4D01D1F7472199DE47</hash></process><process><diff>0</diff><pid>1516</pid><path>c:\program files\vmware\vmware tools\vmtoolsd.exe</path><hash>5C642EF7F4EF65A0445B2C2CD227F9431835712EE7F1BD4D01D1F7472199DE47</hash></process></application><application><diff>0</diff><id></id><name>WinPcap 4.1.3</name><vendor>Riverbed Technology, Inc.</vendor><version>4.1.0.2980</version><category>Unclassified</category></application><application><diff>0</diff><id>300</id><name>WinPcap</name><vendor>Riverbed Technology, Inc.</vendor><version>4.1.0.2980</version><path>C:\Program Files (x86)\WinPcap\</path><category>Unclassified</category></application><application><diff>0</diff><id>923</id><name>Windows Backup and Restore</name><vendor>Microsoft Corporation</vendor><version>6.1.7600.16385</version><path>C:\Windows\System32\</path><category>BackupClient</category></application><application><diff>0</diff><id>362</id><name>Windows Defender</name><vendor>Microsoft Corporation</vendor><version>6.1.7600.16385</version><path>C:\Program Files\Windows Defender\</path><category>AntiMalware</category></application><application><diff>0</diff><id>283</id><name>Windows Firewall</name><vendor>Microsoft Corporation</vendor><version>6.1.7600.16385</version><path>C:\Windows\System32\</path><category>FireWall</category></application><application><diff>0</diff><id>1612</id><name>Windows Media Player</name><vendor>Microsoft Corporation</vendor><version>12.0.7601.23517</version><path>C:\Program Files\Windows Media Player\</path><category>Unclassified</category><process><diff>0</diff><pid>1596</pid><path>c:\program files\windows media player\wmpnetwk.exe</path><hash>306467D280E99D0616E839278A4DB5BED684F002AE284C3678CABB5251459CB3</hash></process></application><application><diff>0</diff><id>1587</id><name>Windows Security Health Agent</name><vendor>Microsoft Corporation</vendor><version>6.1.7600.16385</version><path>C:\Windows\System32\</path><category>HealthAgent</category></application><application><diff>0</diff><id>1090</id><name>Windows Update Agent</name><vendor>Microsoft Corporation</vendor><version>7.6.7601.19161</version><path>C:\Windows\System32\</path><category>PatchManagement</category></application><application><diff>0</diff><id>1106</id><name>Windows VPN Client</name><vendor>Microsoft

```
Corporation</vendor><version>6.1.7600.16385</version><path>C:\Windows\System32\</path><category>
VPNClient</category></application><application><diff>0</diff><id>207</id><name>Wireshark</name><
vendor>The Wireshark developer community</vendor><version>1.10.7</version><path>C:\Program Files
(x86)\Wireshark\</path><category>Unclassified</category></application></check></package></report
> ]]
```

...

所有報告都是XML字串。格式化報告示例：

```
<report>
<version>1000</version>
<package>
<id>12</id>
<status>1</status>
<check>
<chk_id>Apps_Collection</chk_id>
<diff>0</diff>
<application>
<diff>0</diff>
<id>104</id>
<name>Adobe Flash Player</name>
<vendor>Adobe Systems Inc.</vendor>
<version>23.0.0.207</version>
<path>C:\Windows\SysWOW64\Macromed\Flash\</path>
<category>Unclassified</category>
</application>
...
<application>
<diff>0</diff>
<id></id>
<name>Cisco AnyConnect ISE Posture Module</name>
<vendor>Cisco Systems, Inc.</vendor>
<version>4.4.00209</version>
<path>C:\Program Files (x86)\Cisco\Cisco AnyConnect Secure Mobility Client\</path>
<category>Unclassified</category>
<process>
<diff>0</diff>
<pid>704</pid>
<path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnagent.exe</path>
<hash>7D7502DE53F0282A7AFC98BE89F54D39FDEC3FAC2A1F32674C76967ADC695E09</hash>
</process>
<process>
<diff>0</diff>
<pid>1296</pid>
<path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\aciseagent.exe</path>
<hash>7E156520C184334D473506FFE8A482997581ACF6ABD34231FDEDC2B9A3A12066</hash>
</process>
<process>
<diff>0</diff>
<pid>3076</pid>
<path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\vpnui.exe</path>
<hash>0131258625A16B78125EB2081E8D5678671B6DE52DDA9E0813D4674618177DC3</hash>
</process>
<process>
<diff>0</diff>
<pid>3384</pid>
<path>c:\program files (x86)\cisco\cisco anyconnect secure mobility client\acise.exe</path>
<hash>8636F5761663A0EB9EDE263609B6AEF0EA52292E5B093AD4C453097583F365DD</hash>
</process>
<process>
<diff>0</diff>
<pid>15924</pid>
<path>c:\program files (x86)\cisco\cisco anyconnect secure mobility
```

```
client\aciseposture.exe</path>
<hash>7FA4B3B6F688642E800AD53B865DBDCC163FBCA92D83482248DB068BA42192EA</hash>
</process>
</application>
... </check> </package> </report>
```

AnyConnect僅在第一次連線時傳送完整報告。此外，它僅傳送更改。例如，記事本++在一段時間後啟動：

```
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Received posture request [parameters:
reqtype=, userip=10.62.148.162, clientmac=C0-4A-00-15-75-C8, os=, osVerison=1.2.1.6.1.4,
architecture=, provider=, state=, userAgent=Mozilla/4.0 (compatible; WINDOWS; 1.2.1.6.1.4;
AnyConnect Posture Agent v.4.4.00209), session_id=
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Found a session info for endpoint C0-4A-00-
15-75-C8 cisco
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Got userid cisco from cache for endpoint C0-
4A-00-15-75-C8/
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Report IV in Base64:
JjneGgZcJbmqMKQcy8kJg==
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Using AES shared secret to decrypt report.
2017-01-04 19:24:37,929 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.util.CipherUtil -::::- Decrypting message using AES.
2017-01-04 19:24:37,930 DEBUG [http-bio-10.48.26.60-8443-exec-7][]
cisco.cpm.posture.runtime.PostureHandlerImpl -::::- Decrypted report [[
<report><version>1000</version><package><id>12</id><status>1</status><check><chk_id>Apps_Collect
ion</chk_id><diff>1</diff><application><diff>2</diff><id>298</id>
```

```
<vendor>Notepad++ Team</vendor><version>6.63</version><path>C:\Program Files
(x86)\Notepad++\</path><category>Unclassified</category><process><diff>0</diff>
```

```
<path>c:\program files
(x86)\notepad++\notepad++.exe</path><hash>43E9F528CD2405E6DD117857D440A634769C6E11C4D986605354C2
605B6E7D84</hash></process></application></check></package></report> ]]
```

格式化：

```
<report>
<version>1000</version>
<package>
<id>12</id>
<status>1</status>
<check>
<chk_id>Apps_Collection</chk_id>
<diff>1</diff>
<application>
<diff>2</diff>
<id>298</id>
```

```
<vendor>Notepad++ Team</vendor>
<version>6.63</version>
<path>C:\Program Files (x86)\Notepad++\</path>
<category>Unclassified</category>
<process>
<diff>0</diff>
```

```
<path>c:\program files (x86)\notepad++\notepad++.exe</path>
<hash>43E9F528CD2405E6DD117857D440A634769C6E11C4D986605354C2605B6E7D84</hash>
</process>
</application>
</check>
</package>
</report>
```

從AnyConnect

AnyConnect_ISEPosture.txt檔案包含所有相關日誌和調試。此檔案可以在終端上收集的DART捆綁包中找到。以下是使用AES256加密的定期報告的範例：

```
Date       : 01/04/2017
Time       : 19:34:38
Type       : Unknown
Source     : acise
```

```
Description : Function: Authenticator::bldMonitorReport
Thread Id: 0xD3C
File: Authenticator.cpp
Line: 724
Level: info
```

Monitor Report:

```
&user_key=dummykey&cm=10&ops=1&mac_list=C0%3a4A%3a00%3a15%3a75%3aC8&ip_list=10%2e62%2e148%2e162&
hostname=TSOPREK%2dWIN7%2d1&udid=766bb955e51e4ab063fd478c63acee81260ca592&dm_report_client_IV=Jj
neGgZcJbmjqMKQcy8kJg%3d%3d&dm_report=2yWwY7QzHWCY%2fDVEESSAabEZtYltxNE7Qgy00a85Dgo2Ts4ok8sIrBM37
S2%2fe2Hs0URCP4KkfY4Ap8%2bh%2fqS%2biw50CzejKG%2bVbF7RTRqZyrg2veWAwVEDsSb%2bqWRRdzvZfsjS3G4ApQi07
qnfExwN1IvCqrVoplj17TAcVXEht8NkDg00T9jM%2fTNH%2fMKllc0o6Ha5juJo4YtWDWY%2bnOancw%3d%3d.
```

```
Date       : 01/04/2017
Time       : 19:34:38
Type       : Unknown
Source     : acise
```

```
Description : Function: Authenticator::buildAndSendHttpMsg
Thread Id: 0xD3C
File: Authenticator.cpp
Line: 196
Level: debug
```

```
MSG_SN_HTTP_REQUEST, {{url="https://ise22-pri.example.com:8443/auth/perfigo_validate.jsp"},
{server="ise22-pri.example.com"}, {method="post"}, {object_path=""}, {reuse_existing=1},
```

```
{close_when_done=0},
{pkt="&user_key=dummykey&cm=10&ops=1&mac_list=C0%3a4A%3a00%3a15%3a75%3aC8&ip_list=10%2e62%2e148%
2e162&hostname=TSOPREK%2dWIN7%2d1&udid=766bb955e51e4ab063fd478c63acee81260ca592&dm_report_client
_IV=JjneGgZcJbmjqMKQcy8kJg%3d%3d&dm_report=2yWwY7QzHWCY%2fDVEESSAabEZtYltxNE7Qgy0Oa85Dgo2Ts4ok8s
IrBM37S2%2fe2Hs0URCP4KkfY4Ap8%2bh%2fqS%2biw50CZeJkG%2bVbF7RTRqZyrg2veWAwvEDsSb%2bqWRRdzvZfSjS3G4
ApQi07qnfExwN1IvCqrVOp1j17TAcVXEht8NkDg00T9jM%2fTNH%2fMKl1c0o6Ha5juJo4YtWDWY%2bnOancw%3d%3d"},
{path=""}, {type=1}}.
```

```
Date       : 01/04/2017
Time       : 19:34:39
Type      : Unknown
Source    : acise
```

```
Description : Function: HttpHandler::createOutgoingHTTPSMessage
Thread Id: 0xD3C
File: HttpHandler.cpp
Line: 295
Level: debug
```

```
MSG_NS_HTTP_RESPONSE, {{success=1}, {pkt="<!--error=0--><!--X-Perfigo-DM-Error=0--><!--X-
Perfigo-Monitoring-Interval=5-->"}, {type=1}}.
```

常見問題

AnyConnect無法訪問ISE

在本例中，AnyConnect_ISEPosture.txt包含錯誤：

```
Date       : 01/04/2017
Time       : 20:04:40
Type      : Unknown
Source    : acise
```

```
Description : Function: Authenticator::buildAndSendHttpMsg
Thread Id: 0xD3C
File: Authenticator.cpp
Line: 196
Level: debug
```

```
MSG_SN_HTTP_REQUEST, {{url="https://ise22-pri.example.com:8443/auth/perfigo_validate.jsp"},
{server="ise22-pri.example.com"}, {method="post"}, {object_path=""}, {reuse_existing=1},
{close_when_done=0},
{pkt="&user_key=dummykey&cm=10&ops=1&mac_list=C0%3a4A%3a00%3a15%3a75%3aC8&ip_list=10%2e62%2e148%
2e162&hostname=TSOPREK%2dWIN7%2d1&udid=766bb955e51e4ab063fd478c63acee81260ca592&dm_report_client
_IV=JjneGgZcJbmjqMKQcy8kJg%3d%3d&dm_report=2yWwY7QzHWCY%2fDVEESSAabEZtYltxNE7Qgy0Oa85Dgo2Ts4ok8s
IrBM37S2%2fe2Hs0URCP4KkfY4Ap8%2bh%2fqS%2biw50CZeJkG%2bVbF7RTRqZyrg2veWAwvEDsSb%2bqWRRdzvZfSjS3G4
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```


3Cd6nlIPP5Mora493QhX4I139q%2birT1%2f5F7tI%2fKLv20fWFC%2fjKbfu%2bFe4QIbdtiSCvLkyZ%2bWdWBMWSXHGE11
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2e.

Date : 01/04/2017
Time : 20:04:41
Type : Unknown
Source : acise

Description : Function: hs_transport_winhttp_post
Thread Id: 0xD3C
File: hs_transport_winhttp.c
Line: 5776
Level: debug

unable to send request: 12029.

Date : 01/04/2017
Time : 20:04:41
Type : Unknown
Source : acise

Description : Function: HttpHandler::createOutgoingHTTPMessage
Thread Id: 0xD3C
File: HttpHandler.cpp
Line: 295
Level: debug

MSG_NS_HTTP_RESPONSE, {{success=0}, {pkt=""}, {type=1}}.

Date : 01/04/2017
Time : 20:04:41
Type : Error
Source : acise

Description : Function: Authenticator::parsePostureData

Thread Id: 0xD3C
File: Authenticator.cpp
Line: 257
Level: error

Failed to communicate with CAS..

Date : 01/04/2017
Time : 20:04:41
Type : Error
Source : acise

Description : Function: SMNavPosture::SMP_handleMonitorResp
Thread Id: 0xD3C
File: SMNavPosture.cpp
Line: 495
Level: error

Failed to parse monitor response.

ISE從EP檢視建立應用合規性時引發「空」錯誤

從EP檢視建立App Compliance期間出現「null」消息的最常見原因是缺少所需的OPSWAT圖表。最新版本的終端安全評估更新應該可以解決此問題。