

# 配置ISE 2.0并且加密AnyConnect 4.2状态 BitLocker加密

## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Configure](#)

[Network Diagram](#)

[ASA](#)

[在Windows 7的BitLocker](#)

[ISE](#)

[步骤1.网络设备](#)

[步骤2.状态情况和策略](#)

[步骤3.客户端设置资源和策略](#)

[步骤4.授权规则](#)

[Verify](#)

[步骤1. VPN会话建立](#)

[步骤2.客户端设置](#)

[步骤3.状态检查和CoA](#)

[Bug](#)

[Troubleshoot](#)

[Related Information](#)

## Introduction

本文描述如何加密终端的与使用的磁盘分区Microsoft BitLocker和如何配置思科身份服务引擎 (ISE)为了提供全部存取给网络，只有当配置时正确的加密。Cisco与AnyConnect安全移动性客户端4.2一起的ISE版本2.0支持磁盘加密的状态。

## Prerequisites

## Requirements

Cisco 建议您了解以下主题：

- 可适应的安全工具(ASA) CLI配置和安全套接字层SSL VPN配置
- 在ASA的远程访问VPN配置
- ISE和状态服务

## Components Used

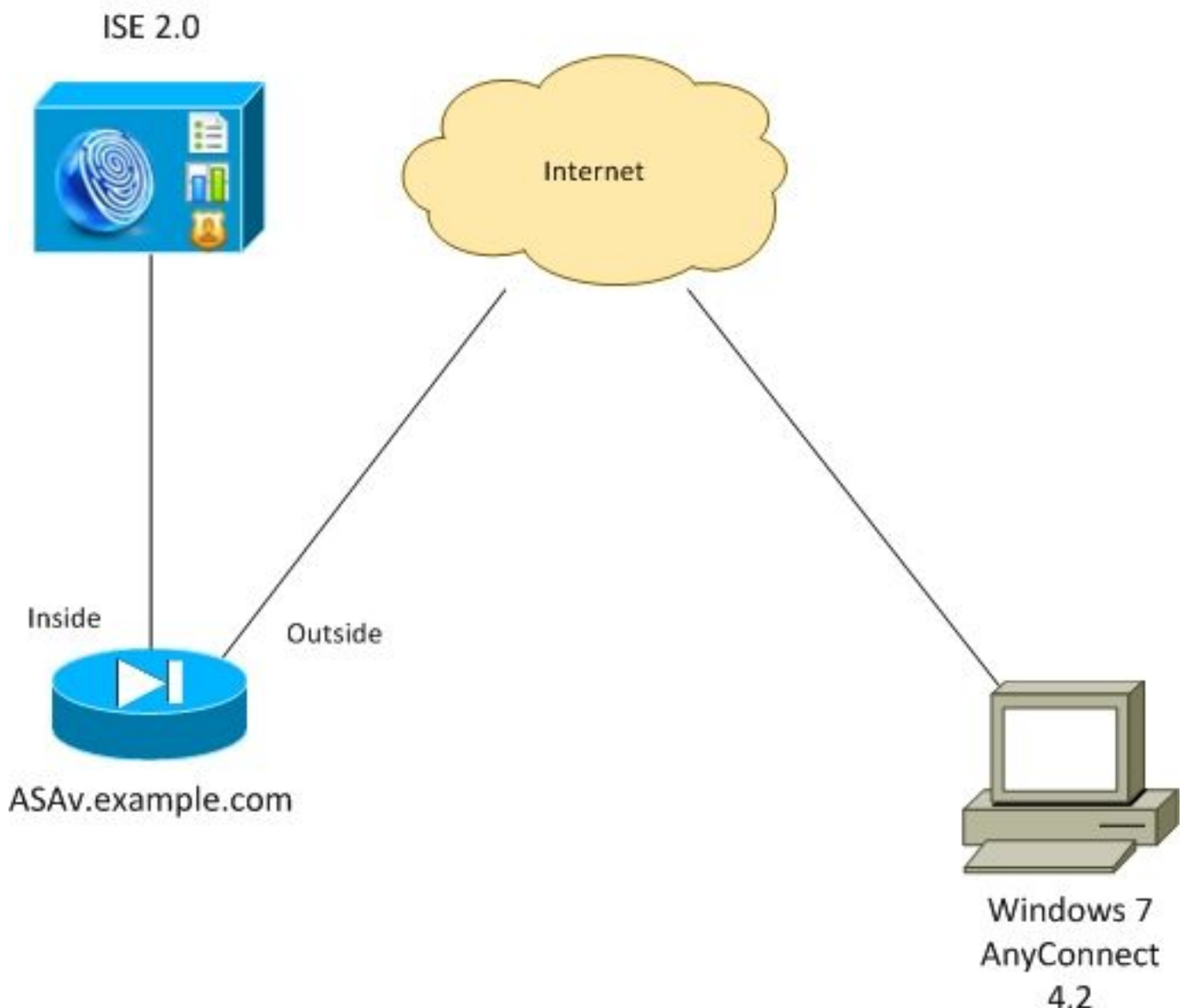
本文档中的信息基于以下软件版本：

- Cisco ASA软件版本9.2.1及以后
- 与Cisco AnyConnect安全移动客户端版本4.2和以上的微软视窗版本7
- Cisco ISE，版本2.0及以后

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. 如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

## Configure

### Network Diagram



流如下：

- AnyConnect客户端起动的VPN会话通过ISE验证。终端的状态状况不知道，规则ASA VPN未知被击中结果，并且会话重定向对设置的ISE
- 用户打开Web浏览器，HTTP数据流由对ISE的ASA重定向。ISE与状态和标准模块一起推进

## AnyConnect的新版本对终端

- 一旦状态模块被执行，检查是否分区E：由BitLocker充分地加密。如果是，触发授权的报告被发送到ISE (CoA)的Radius更改，不用任何ACL (全部存取)

• 在ASA的VPN会话是更新的，去除重定向ACL，并且会话有全部存取展示得VPN会话为例。状态功能为访问的其他类型太良好工作。

## ASA

它从远程SSL VPN访问被配置用使用ISE作为验证、授权和统计(AAA)服务器。需要配置与重定向ACL一起的Radius CoA：

```
aaa-server ISE20 protocol radius
  authorize-only
  interim-accounting-update periodic 1
  dynamic-authorization
aaa-server ISE20 (inside) host 10.48.17.235
  key cisco

tunnel-group TAC type remote-access
tunnel-group TAC general-attributes
  address-pool POOL
authentication-server-group ISE20
accounting-server-group ISE20
  default-group-policy AllProtocols
tunnel-group TAC webvpn-attributes
  group-alias TAC enable

group-policy AllProtocols internal
group-policy AllProtocols attributes
  vpn-tunnel-protocol ikev1 ikev2 ssl-client ssl-clientless

webvpn
  enable outside
  anyconnect image disk0:/anyconnect-win-4.2.00096-k9.pkg 1
  anyconnect enable
  tunnel-group-list enable
  error-recovery disable

access-list REDIRECT extended deny udp any any eq domain
access-list REDIRECT extended deny ip any host 10.48.17.235
access-list REDIRECT extended deny icmp any any
access-list REDIRECT extended permit tcp any any eq www

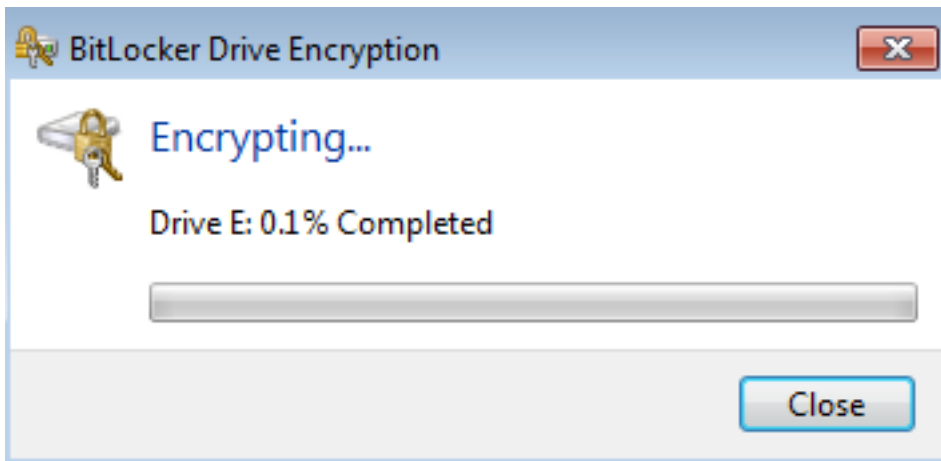
ip local pool POOL 172.16.31.10-172.16.31.20 mask 255.255.255.0
```

欲了解更详细的信息请参考：

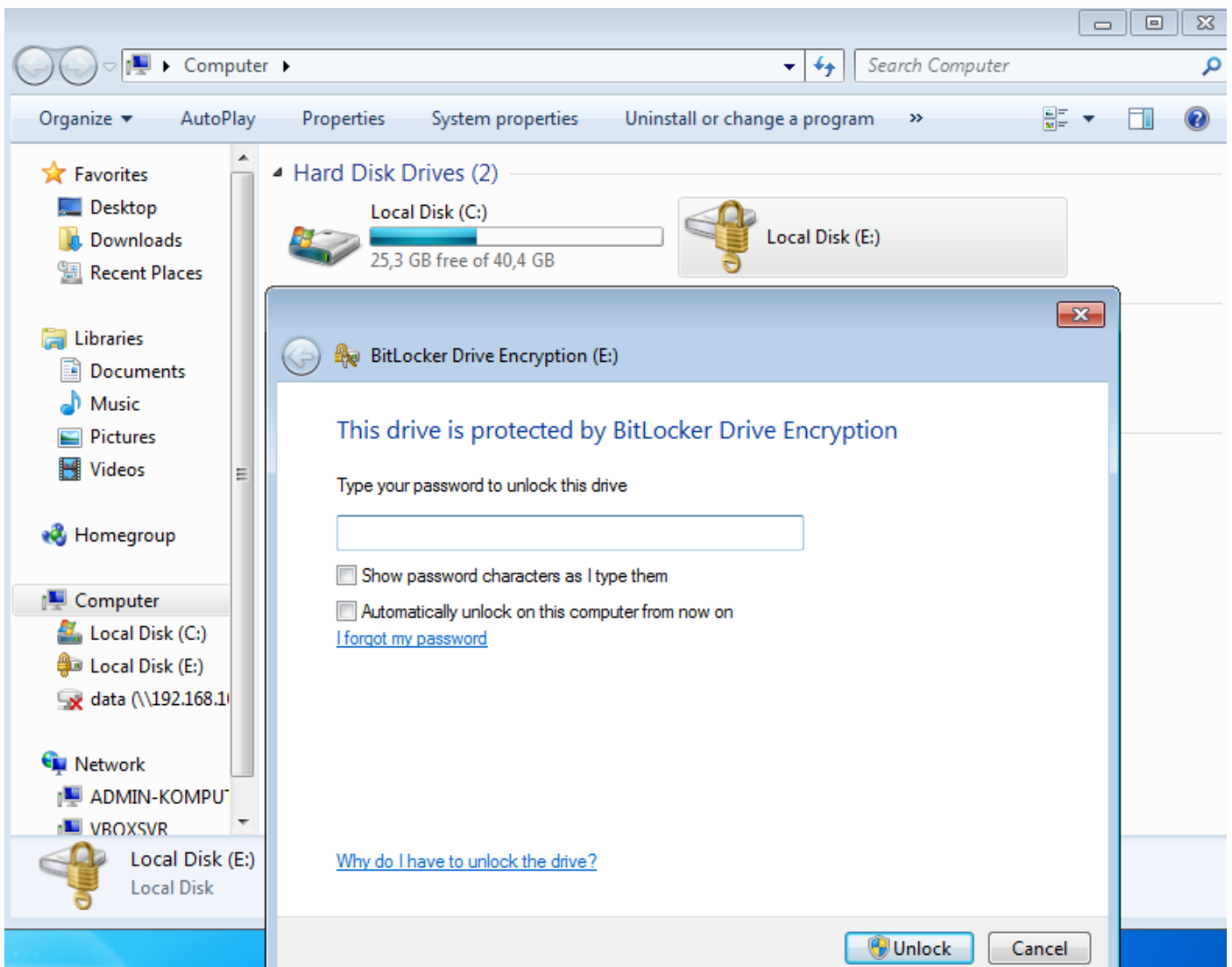
[与ISE版本1.3配置示例的AnyConnect 4.0集成](#)

## 在Windows 7的BitLocker

连接对控制面板>System和安全> BitLocker推进加密，enable (event) E：分成加密。由密码(PIN)保护它如镜像所显示。



一旦它被加密，请安放它(与密码的提供)并且保证是可访问的如镜像所显示。



欲了解更详细的信息，请跟随Microsoft文档：

[Windows BitLocker推进加密分步指南](#)

## ISE

### 步骤1.网络设备

连接到Administration >网络资源>网络设备，添加与设备type= ASA的ASA。使用这，因为在授权规则，然而它的一个条件不是必须的(可以使用条件的其他类型)。

如果适当，网络设备组不存在。为了创建，请连接对Administration >网络资源>网络设备组。

## 步骤2.状态情况和策略

保证状态情况更新：连接对管理>System >设置>状态>更新>更新当前。

如镜像所显示，连接对策略>Policy元素>情况>状态>磁盘加密情况，添加一个新的情况。

The screenshot shows the Cisco Identity Services Engine (ISE) configuration interface. The breadcrumb navigation is: Policy > Guest Access > Administration > Work Centers > Authentication > Authorization > Profiling > Posture > Client Provisioning > Policy Elements > Conditions > Results. The main content area is titled "Disk-Encryption Conditions List > bitlocker" and "Disk Encryption Condition".

Configuration fields include:

- \* Name: bitlocker
- Description: (empty)
- \* Operating System: Windows All
- \* Vendor Name: Microsoft Corp.

Below these fields is a table titled "Products for Selected Vendor":

	Product Name	Version	Encryption State Check	Minimum Compliant Module Supp...
<input type="checkbox"/>	BitLocker Drive Encryption	10.x	YES	3.6.10146.2
<input checked="" type="checkbox"/>	BitLocker Drive Encryption	6.x	YES	3.6.10146.2

At the bottom, there is a checkbox for "Encryption State" which is checked. Below it, a field for "Location" is set to "Specific Locatio" and "E:" is empty. The text "is Fully Encrypted OR" is followed by an unchecked checkbox for "Pending Encryption" and another unchecked checkbox for "Partially Encrypted".

此状态检查，如果安装Windows的7 BitLocker，并且，如果E：分区充分地加密。

**Note:**BitLocker是磁盘级别加密，并且不支持有路径参数的特定位置，仅磁盘字母。

连接对策略如镜像所显示，使用情况的>Policy元素>结果>状态>需求为了创建新要求。

The screenshot shows the Cisco Identity Services Engine (ISE) interface. The navigation menu includes Home, Operations, Policy, Guest Access, Administration, and Work Centers. Under the 'Policy' menu, 'Policy Elements' is selected, leading to a 'Results' view. A sidebar on the left lists categories: Authentication, Authorization, Profiling, Posture, and Remediation Actions. The main content area displays a table titled 'Requirements' with the following data:

Name	Operating Systems	Conditions	Remediation Actions
Bitlocker	for Windows All	met if bitlocker	else Message Text Only
Any_AV_Definition_Mac	for Mac OSX	met if ANY_av_mac_def	else AnyAVDefRemediationMac
Any_AS_Definition_Win_copy	for Windows All	met if ANY_as_win_def	else AnyASDefRemediationWin
Any_AV_Installation_Win	for Windows All	met if ANY_av_win_inst	else Message Text Only
Any_AV_Definition_Win	for Windows All	met if ANY_av_win_def	else AnyAVDefRemediationWin

如镜像所显示，连接对策略>状态，添加所有Windows的一个条件为了使用需求。

The screenshot shows the Cisco Identity Services Engine (ISE) interface for configuring a Posture Policy. The navigation menu includes Home, Operations, Policy, Guest Access, Administration, and Work Centers. Under the 'Policy' menu, 'Posture' is selected, leading to the 'Posture Policy' configuration page. The page title is 'Posture Policy' and it includes the instruction: 'Define the Posture Policy by configuring rules based on operating system and/or other conditions.' Below this is a table showing the configured rule:

Status	Rule Name	Identity Groups	Operating Systems	Other Conditions	Requirements
<input checked="" type="checkbox"/>	Bitlocker	If Any	and Windows All		then Bitlocker

### 步骤3.客户端设置资源和策略

如镜像所显示，连接对策略>Policy元素>客户端设置>资源，从Cisco.com下载标准模块和手工加载AnyConnect 4.2程序包。

The screenshot shows the Cisco Identity Services Engine (ISE) interface for the 'Resources' section. The navigation menu includes Home, Operations, Policy, Guest Access, Administration, and Work Centers. Under the 'Policy' menu, 'Client Provisioning' is selected, leading to the 'Resources' page. The page title is 'Resources' and it includes a table with the following data:

Name	Type	Version	Last Update	Description
<input type="checkbox"/> MacOSXSPWizard 1.0.0.36	MacOsXSPWizard	1.0.0.36	2015/10/08 09:24:15	ISE 2.0 Supplicant Provisioning ...
<input type="checkbox"/> WinSPWizard 1.0.0.43	WinSPWizard	1.0.0.43	2015/10/29 17:15:02	Supplicant Provisioning Wizard f...
<input type="checkbox"/> ComplianceModule 3.6.10231.2	ComplianceModule	3.6.10231.2	2015/11/06 17:49:36	NACAgent ComplianceModule ...
<input checked="" type="checkbox"/> AnyConnectDesktopWindows 4.2.96.0	AnyConnectDesktopWindows	4.2.96.0	2015/11/14 12:24:47	AnyConnect Secure Mobility Cli...
<input checked="" type="checkbox"/> AnyConnectComplianceModuleWindows 3.6.10231.2	AnyConnectComplianceMo...	3.6.10231.2	2015/11/06 17:50:14	AnyConnect Windows Complian...
<input type="checkbox"/> AnyConnectPosture	AnyConnectProfile	Not Applicable	2015/11/14 12:26:16	
<input type="checkbox"/> Cisco-ISE-NSP	Native Supplicant Profile	Not Applicable	2015/10/29 22:10:20	Pre-configured Native Supplica...
<input type="checkbox"/> AnyConnect Configuration	AnyConnectConfig	Not Applicable	2015/11/14 12:26:42	
<input type="checkbox"/> WinSPWizard 1.0.0.46	WinSPWizard	1.0.0.46	2015/10/08 09:24:16	ISE 2.0 Supplicant Provisioning ...

连接到Add> NAC代理程序或AnyConnect状态配置文件，创建AnyConnect状态配置文件(名字：AnyConnectPosture)与默认设置。

连接对Add> AnyConnect配置，添加AnyConnect配置文件(名字：AnyConnect配置)如镜像所显示。

Identity Services Engine Home Operations Policy Guest Access Administration Work Centers

Authentication Authorization Profiling Posture Client Provisioning Policy Elements

Dictionaries Conditions Results

AnyConnect Configuration > AnyConnect Configuration

\* Select AnyConnect Package: AnyConnectDesktopWindows 4.2.96.0

\* Configuration Name: AnyConnect Configuration

Description:

DescriptionValue

\* Compliance Module: AnyConnectComplianceModuleWindows 3.6.1

**AnyConnect Module Selection**

ISE Posture

VPN

Network Access Manager

Web Security

AMP Enabler

ASA Posture

Network Visibility

Start Before Logon

Diagnostic and Reporting Tool

**Profile Selection**

\* ISE Posture: AnyConnectPosture

VPN

Network Access Manager

Web Security

AMP Enabler

Network Visibility

Customer Feedback

如镜像所显示，连接对策略>客户端设置并且修改Windows的默认策略为了使用被配置的AnyConnect配置文件。

Identity Services Engine Home Operations Policy Guest Access Administration Work Centers

Authentication Authorization Profiling Posture Client Provisioning Policy Elements

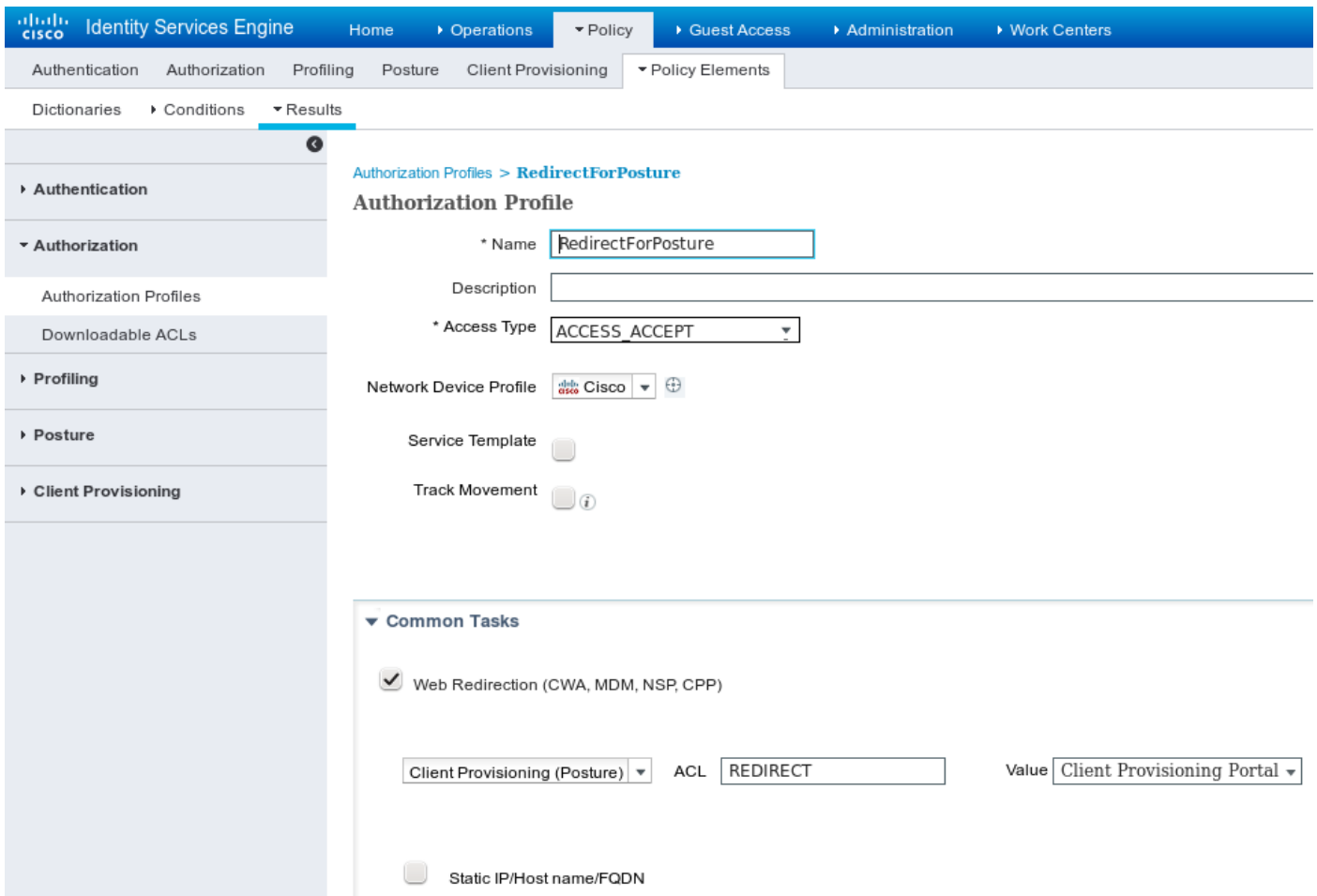
**Client Provisioning Policy**

Define the Client Provisioning Policy to determine what users will receive upon login and user session initiation:  
 For Agent Configuration: version of agent, agent profile, agent compliance module, and/or agent customization package.  
 For Native Supplicant Configuration: wizard profile and/or wizard. Drag and drop rules to change the order.

Rule Name	Identity Groups	Operating Systems	Other Conditions	Results
<input checked="" type="checkbox"/> IOS	If Any and	Apple iOS All	and Condition(s)	then Cisco-ISE-NSP
<input checked="" type="checkbox"/> Android	If Any and	Android	and Condition(s)	then Cisco-ISE-NSP
<input checked="" type="checkbox"/> Windows	If Any and	Windows All	and Condition(s)	then <a href="#">AnyConnect Configuration</a>
<input checked="" type="checkbox"/> MAC OS	If Any and	Mac OSX	and Condition(s)	then MacOSXSPWizard 1.0.0.36 And Cisco-ISE-NSP

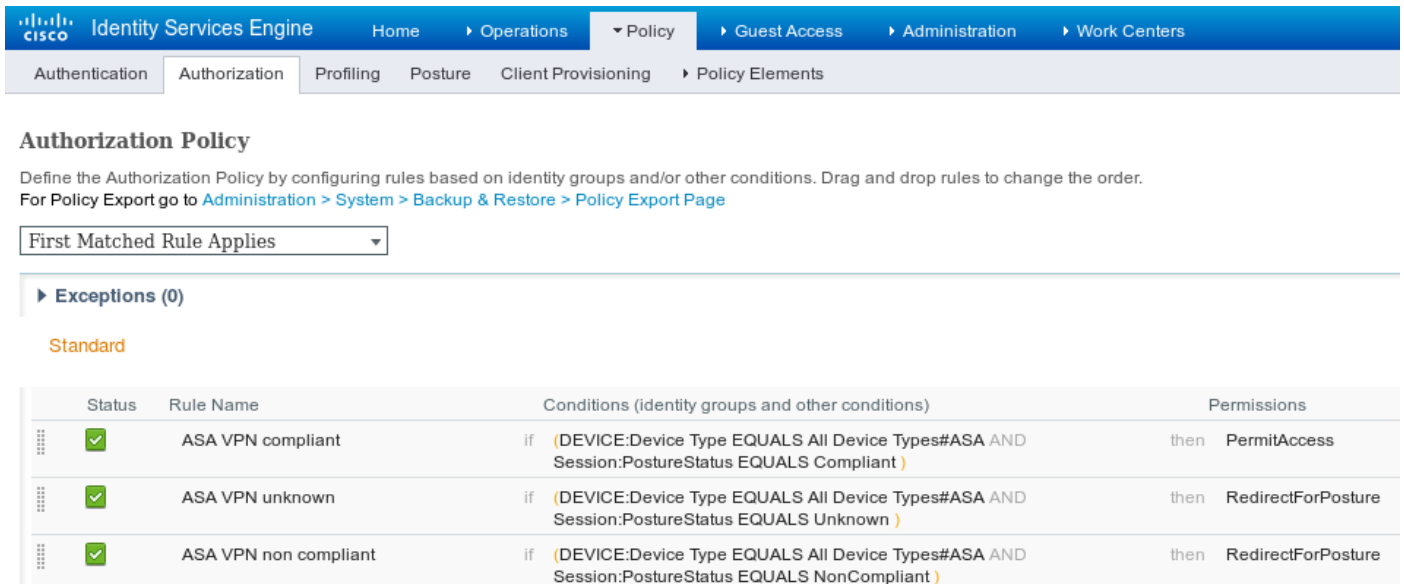
#### 步骤4.授权规则

连接对策略>Policy元素>结果>授权，添加授权配置文件(名字：RedirectForPosture)对默认客户端设置的门户的哪些重定向如镜像所显示。



重定向ACL在ASA被定义。

如镜像所显示，连接对策略>授权，创建3个授权规则。



如果终端是兼容的，全部存取提供。如果状态是未知或非兼容的，客户端设置的重定向返回。

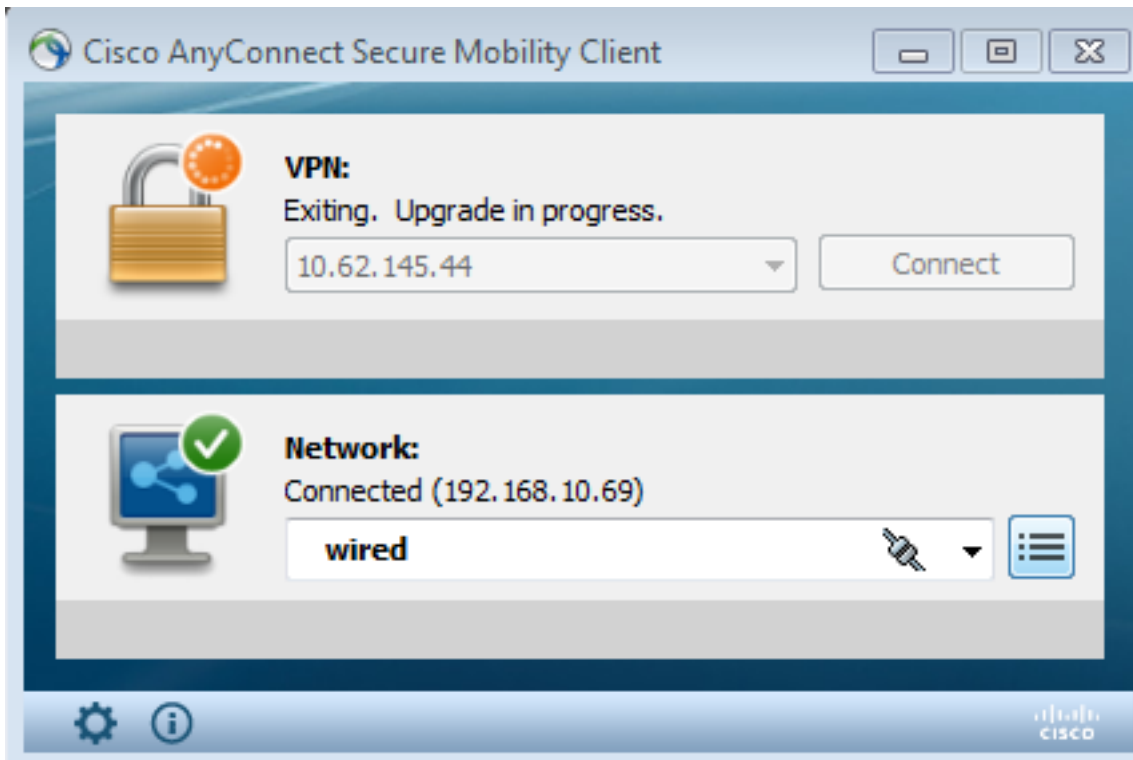
## Verify

使用本部分可确认配置能否正常运行。



## 步骤1. VPN会话建立

一旦VPN会话建立，如镜像所显示，ASA也许要执行升级AnyConnect模块。



在ISE最后规则被击中，如镜像所显示，结果RedirectForPosture权限返回。

Time	Status	Det...	Repeat C...	Identity	Endpoint ID	Authorization Policy	Authorization Profiles	Network Device	Event
2015-11-14 14:59:06...	✓				10.229.20.45		PermitAccess	ASA	Dynamic Authorization succeeded
2015-11-14 14:59:04...	ⓘ		0	cisco	08:00:27:81:50:86	Default >> ASA VP...	RedirectForPosture		Session State is Postured
2015-11-14 14:58:22...	✓			cisco	08:00:27:81:50:86	Default >> ASA VP...	RedirectForPosture	ASA	Authentication succeeded

一旦ASA完成建立VPN会话，报道重定向必须发生：

```
ASAv# show vpn-sessiondb detail anyconnect
```

```
Session Type: AnyConnect Detailed
```

```
Username      : cisco                               Index       : 32
Assigned IP   : 172.16.31.10                       Public IP    : 10.61.90.226
Protocol      : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel
License       : AnyConnect Premium
Encryption    : AnyConnect-Parent: (1)none  SSL-Tunnel: (1)AES256  DTLS-Tunnel: (1)AES256
Hashing       : AnyConnect-Parent: (1)none  SSL-Tunnel: (1)SHA384  DTLS-Tunnel: (1)SHA1
Bytes Tx      : 53201                               Bytes Rx    : 122712
Pkts Tx       : 134                                Pkts Rx     : 557
Pkts Tx Drop  : 0                                 Pkts Rx Drop : 0
Group Policy  : AllProtocols                       Tunnel Group : TAC
Login Time    : 21:29:50 UTC Sat Nov 14 2015
```

Duration : 0h:56m:53s  
Inactivity : 0h:00m:00s  
VLAN Mapping : N/A VLAN : none  
Audt Sess ID : c0a80101000200005647a7ce  
Security Grp : none

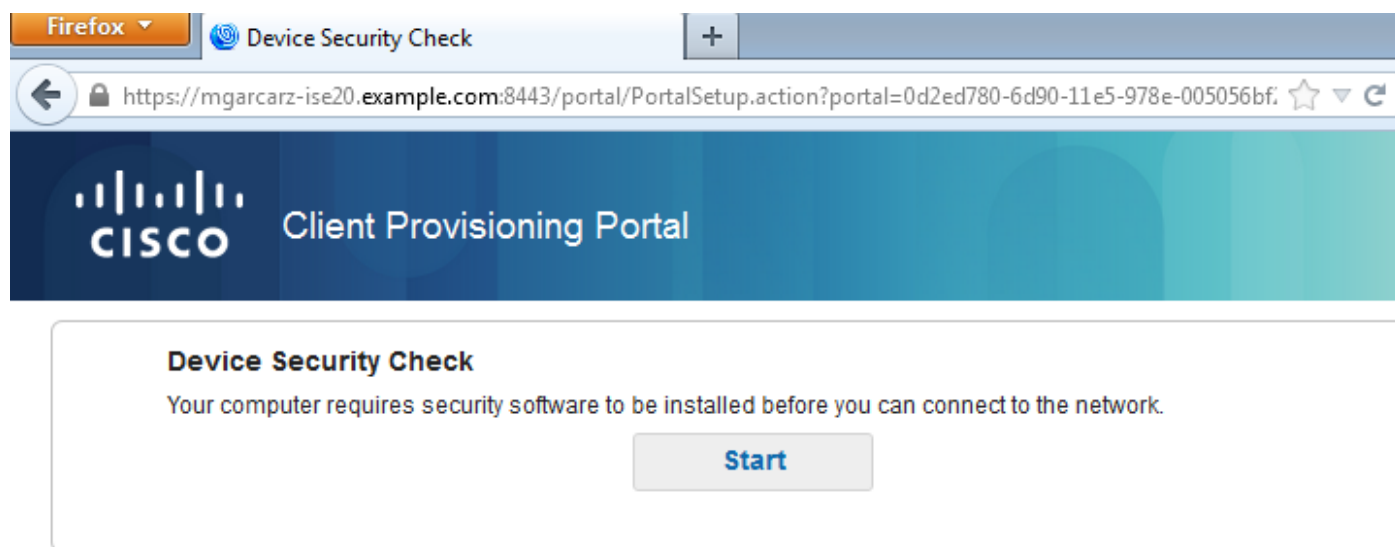
<some output omitted for clarity>

**ISE Posture:**

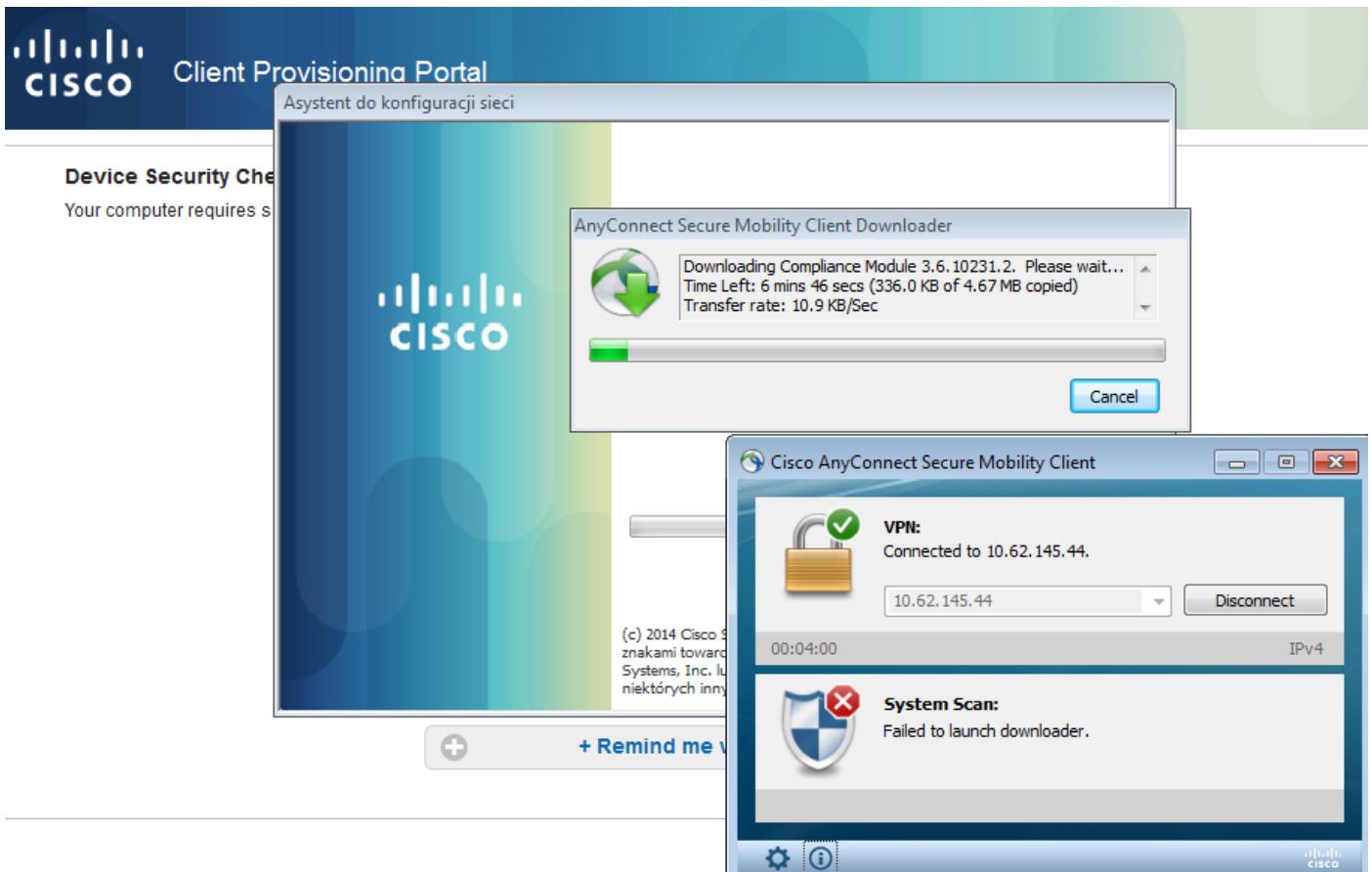
Redirect URL : <https://mgarcarz-ise20.example.com:8443/portal/gateway?sessionId=&portal=0d2ed780-6d90-11e5-978e-005056bf>  
Redirect ACL : REDIRECT

## 步骤2.客户端设置

如镜像所显示，在该阶段，终端Web浏览器数据流重定向对客户端设置的ISE。

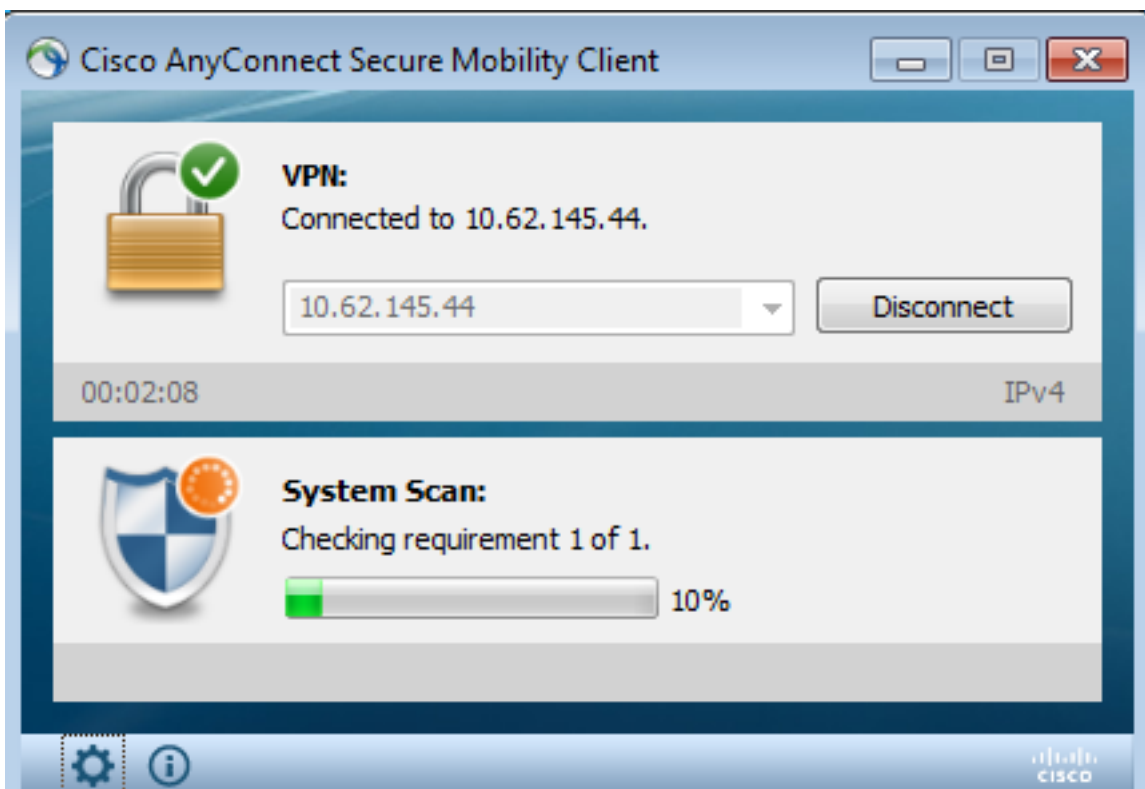


若需要，与状态和标准模块一起的AnyConnect是更新的如镜像所显示。

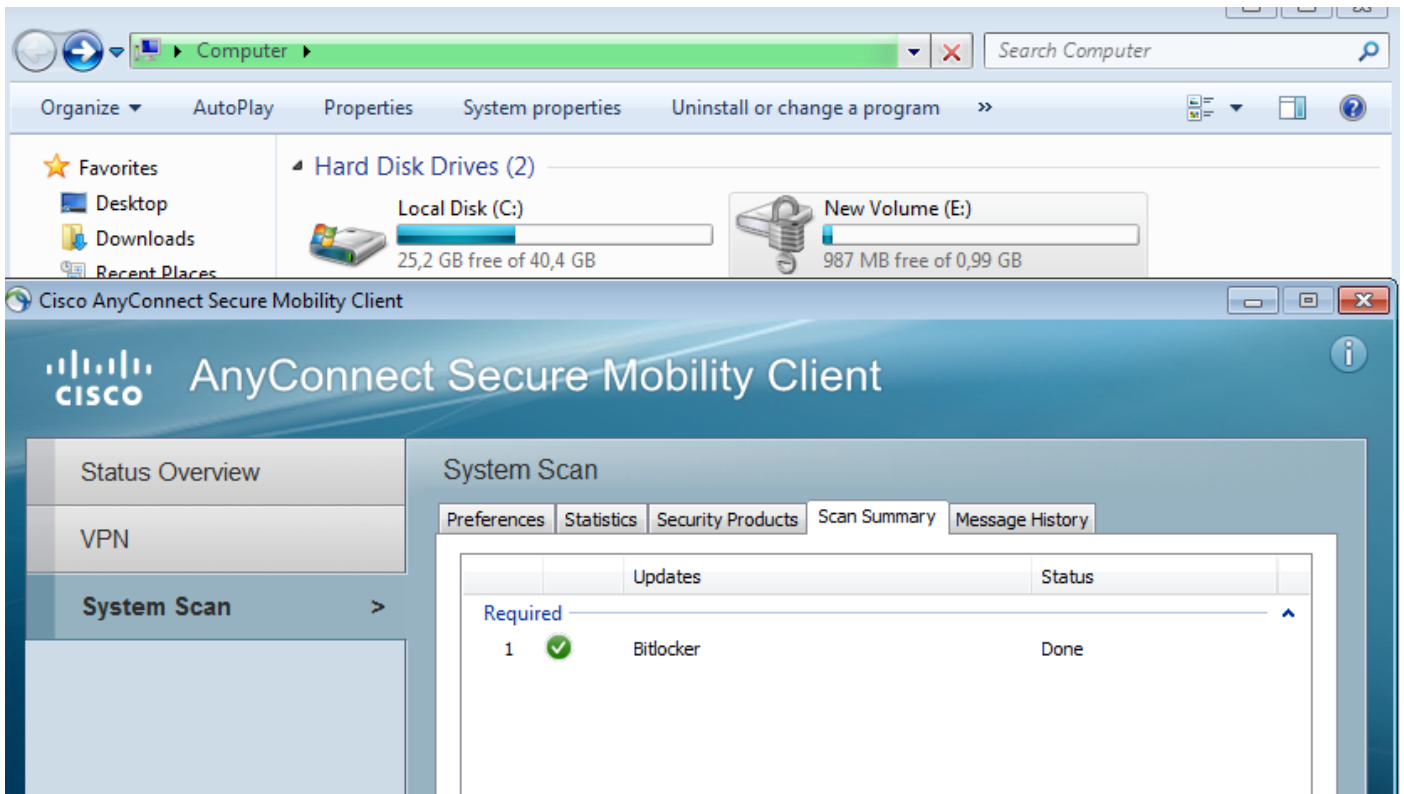


### 步骤3.状态检查和CoA

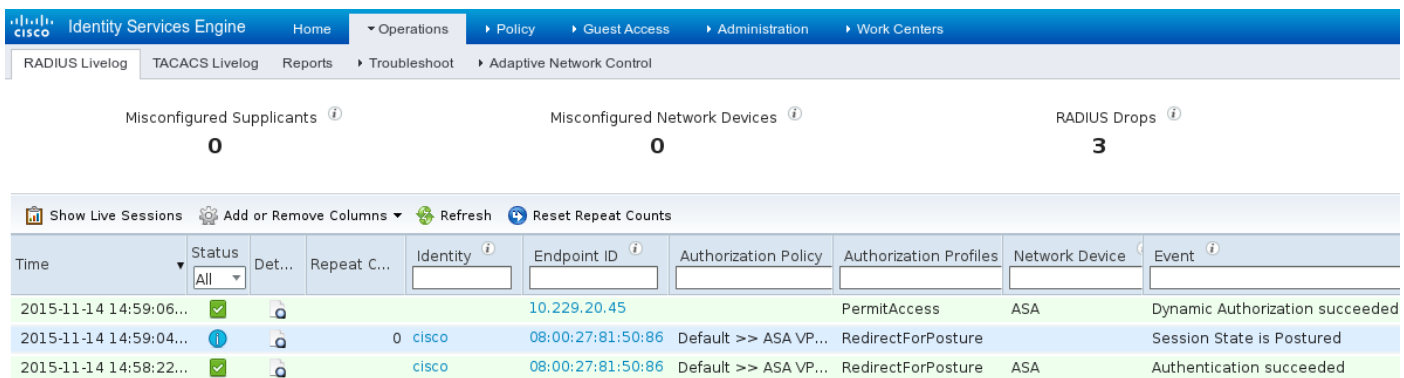
状态模块被执行，发现ISE (也许要求有enroll.cisco.com的DNS A记录为了成功)如镜像所显示，下载并且检查状态情况。



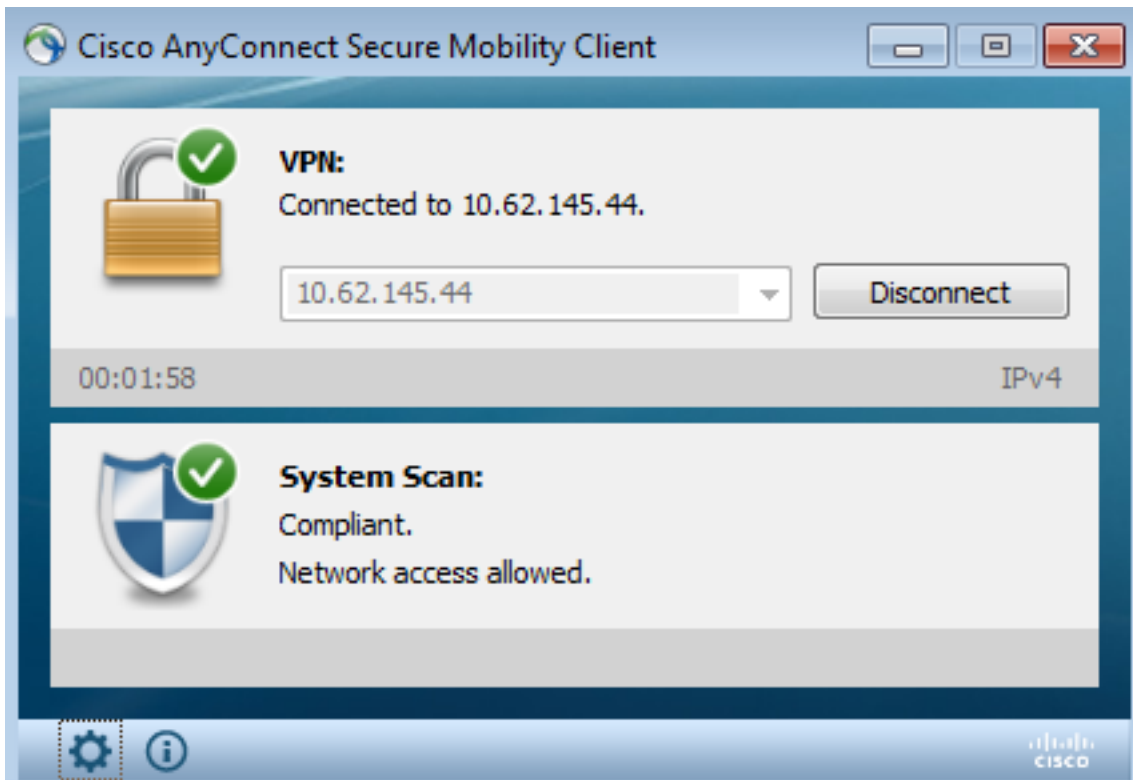
一旦被确认E：如镜像所显示，分区由BitLocker充分地加密，正确的报告被发送到ISE。



如镜像所显示，这触发CoA reauthorize VPN会话。



ASA去除提供全部存取的重定向ACL。如镜像所显示，AnyConnect报告标准。



并且，关于ISE的详细资料报表能确认两个情况是满足的(由情况的状态评估是显示每个情况)的新的ISE 2.0报告。第一个情况(hd\_inst\_BitLockerDriveEncryption\_6\_x)检查安装/进程，第二个(hd\_loc\_bitlocker\_specific\_1)检查，如果特定位置(E :)如镜像所显示，充分地被加密。

Report Selector	Posture Assessment by Condition									
Report Selector Favorites ISE Reports Audit (10 reports) Device Administration (4 reports) Diagnostics (10 reports) Endpoints and Users Authentication Summary Client Provisioning Current Active Sessions External Mobile Device Management Identity Mapping Manual Certificate Provisioning Posture Assessment by Condition Time Range: Today Run Posture Assessment by Endpoint	From 11/14/2015 12:00:00 AM to 11/14/2015 02:59:15 PM									
	Logged At	Postur	Identity	Endpoint ID	IP Address	Endpoint OS	Policy	Enforcement	Condition Status	Condition name
	2015-11-14 14:59:04.8	✓	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_loc_bitlocker_specific_1
	2015-11-14 14:59:04.8	✓	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_inst_BitLockerDriveEncryption_6_x
	2015-11-14 14:42:25.7	✓	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_inst_BitLockerDriveEncryption_6_x
	2015-11-14 14:42:25.7	✓	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
	2015-11-14 14:41:52.4	✓	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_inst_BitLockerDriveEncryption_6_x
	2015-11-14 14:41:52.4	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Skipped	hd_inst_BitLockerDriveEncryption_10_x
	2015-11-14 14:41:52.4	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_loc_bitlocker_specific_1
	2015-11-14 14:38:46.1	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_inst_BitLockerDriveEncryption_6_x
	2015-11-14 14:38:46.1	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_loc_bitlocker_specific_1
	2015-11-14 14:37:23.0	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Passed	hd_inst_BitLockerDriveEncryption_6_x
	2015-11-14 14:37:23.0	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
	2015-11-14 14:37:23.0	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_loc_bitlocker_specific_2
	2015-11-14 14:35:32.3	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
	2015-11-14 14:35:32.3	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Skipped	hd_loc_bitlocker_specific_1
	2015-11-14 14:32:07.0	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
	2015-11-14 14:32:07.0	✗	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Skipped	hd_loc_bitlocker_specific_1

ISE由终端报告的状态评估确认所有条件是满足的，如镜像所显示。

## Posture More Detail Assessment

Time Range: From 11/14/2015 12:00:00 AM to 11/14/2015 11:42:08 PM  
Generated At: 2015-11-14 23:42:08.257

### Client Details

Username:	cisco
Mac Address:	08:00:27:81:50:86
IP address:	10.62.145.44
Session ID:	c0a801010001700056473ebe
Client Operating System:	Windows 7 Ultimate 64-bit
Client NAC Agent:	AnyConnect Posture Agent for Windows 4.2.00096
PRA Enforcement:	0
CoA:	Received a posture report from an endpoint
PRA Grace Time:	0
PRA Interval:	0
PRA Action:	N/A
User Agreement Status:	NotEnabled
System Name:	ADMIN-KOMPUTER
System Domain:	n/a
System User:	admin
User Domain:	admin-Komputer
AV Installed:	
AS Installed:	Windows Defender;6.1.7600.16385;1.141.3676.0;01/11/2013;

### Posture Report

Posture Status:	Compliant
Logged At:	2015-11-14 14:59:04.827

同样可以从ise-psc.log调试被确认。摆ISE和回应收到的请求姿势：

```
2015-11-14 14:59:01,963 DEBUG [portal-http-service28][  
cisco.cpm.posture.runtime.PostureHandlerImpl -::c0a801010001700056473ebe::- Received posture  
request [parameters: reqtype=validate, userip=10.62.145.44, clientmac=08-00-27-81-50-86,  
os=WINDOWS, osVersion=1.2.1.6.1.1, architecture=9, provider=Device Filter, state=, ops=1,  
avpid=, avpname=Microsoft Corp.:!::!::!::!, avpname=Windows Defender:!::!::!::!,  
avpversion=6.1.7600.16385:!::!::!::!, avpfeature=AS:!::!::!::!, userAgent=Mozilla/4.0 (compatible;  
WINDOWS; 1.2.1.6.1.1; AnyConnect Posture Agent v.4.2.00096), session_id=c0a801010001700056473ebe  
2015-11-14 14:59:01,963 DEBUG [portal-http-service28][  
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco:c0a801010001700056473ebe::- Creating a new  
session info for mac 08-00-27-81-50-86  
2015-11-14 14:59:01,963 DEBUG [portal-http-service28][  
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco:c0a801010001700056473ebe::- Turning on  
encryption for endpoint with mac 08-00-27-81-50-86 and os WINDOWS, osVersion=1.2.1.6.1.1  
2015-11-14 14:59:01,974 DEBUG [portal-http-service28][
```

```
cpm.posture.runtime.agent.AgentXmlGenerator -:cisco:c0a801010001700056473ebe::- Agent criteria
for rule [Name=bitLocker, Description=, Operating Systems=[Windows All],
Vendor=com.cisco.cpm.posture.edf.AVASVendor@96b084e, Check Type=Installation, Allow older def
date=0, Days Allowed=Undefined, Product Name=[com.cisco.cpm.posture.edf.AVASProduct@44870fea]] -
( ( (hd_inst_BitLockerDriveEncryption_6_x) ) & (hd_loc_bitlocker_specific_1) )
```

与状态需求(情况+修正)的回应以XML格式：

```
2015-11-14 14:59:02,052 DEBUG [portal-http-service28][[]
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco:c0a801010001700056473ebe::- NAC agent xml
<?xml version="1.0" encoding="UTF-8"?><cleanmachines>
<version>2</version>
<encryption>0</encryption>
<package>
<id>10</id>
<name>Bitlocker</name>
<version/>
<description>Bitlocker encryption not enabled on the endpoint. Station not
compliant.</description>
<type>3</type>
<optional>0</optional>
<action>3</action>
<check>
<id>hd_loc_bitlocker_specific_1</id>
<category>10</category>
<type>1002</type>
<param>180</param>
<path>E:</path>
<value>full</value>
<value_type>2</value_type>
</check>
<check>
<id>hd_inst_BitLockerDriveEncryption_6_x</id>
<category>10</category>
<type>1001</type>
<param>180</param>
<operation>regex match</operation>
<value>^6\..+$|^6$</value>
<value_type>3</value_type>
</check>
<criteria>( ( (hd_inst_BitLockerDriveEncryption_6_x) ) &
(hd_loc_bitlocker_specific_1) )</criteria>
</package>
</cleanmachines>
```

在被加密的报告以后由ISE接受：

```
2015-11-14 14:59:04,816 DEBUG [portal-http-service28][[]
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco:c0a801010001700056473ebe::- Decrypting
report
2015-11-14 14:59:04,817 DEBUG [portal-http-service28][[]
cisco.cpm.posture.runtime.PostureHandlerImpl -:cisco:c0a801010001700056473ebe::- Decrypted
report []
<report><version>1000</version><encryption>0</encryption><key></key><os_type>WINDOWS</os_type><os
sversion>1.2.1.6.1.1</osversion><build_number>7600</build_number><architecture>9</architecture><
user_name>[device-filter-AC]</user_name><agent>x.y.z.d-todo</agent><sys_name>ADMIN-
KOMPUTER</sys_name><sys_user>admin</sys_user><sys_domain>n/a</sys_domain><sys_user_domain>admin-
Komputer</sys_user_domain><av><av_vendor_name>Microsoft
Corp.</av_vendor_name><av_prod_name>Windows
Defender</av_prod_name><av_prod_version>6.1.7600.16385</av_prod_version><av_def_version>1.141.36
```

```
76.0</av_def_version><av_def_date>01/11/2013</av_def_date><av_prod_features>AS</av_prod_features></av><package><id>10</id><status>1</status><check><chk_id>hd_loc_bitlocker_specific_1</chk_id><chk_status>1</chk_status></check><check><chk_id>hd_inst_BitLockerDriveEncryption_6_x</chk_id><chk_status>1</chk_status></check></package></report> ]]
```

位置被标记作为兼容，并且ISE发送CoA：

```
2015-11-14 14:59:04,823 INFO [portal-http-service28][[]]
cisco.cpm.posture.runtime.PostureManager -:cisco:c0a801010001700056473ebe::- Posture state is compliant for endpoint with mac 08-00-27-81-50-86
2015-11-14 14:59:06,825 DEBUG [pool-5399-thread-1][[]] cisco.cpm.posture.runtime.PostureCoA -:cisco:c0a801010000f0005647358b::- Posture CoA is triggered for endpoint [08-00-27-81-50-86] with session [c0a801010001700056473ebe
```

并且，ISE发送最终配置：

```
2015-11-14 14:59:04,823 INFO [portal-http-service28][[]]
cisco.cpm.posture.runtime.PostureManager -:cisco:c0a801010001700056473ebe::- Posture state is compliant for endpoint with mac 08-00-27-81-50-86
2015-11-14 14:59:06,825 DEBUG [pool-5399-thread-1][[]] cisco.cpm.posture.runtime.PostureCoA -:cisco:c0a801010000f0005647358b::- Posture CoA is triggered for endpoint [08-00-27-81-50-86] with session [c0a801010001700056473ebe
```

这些步骤可以从客户端(AnyConnect箭)也被确认：

```
Date       : 11/14/2015
Time       : 14:58:41
Type      : Warning
Source    : acvpnui
```

```
Description : Function: Module::UpdateControls
File: .\Module.cpp
Line: 344
No matching element found for updating: [System Scan], [label], [nac_panel_message_history], [Scanning system ... ]
```

\*\*\*\*\*

```
Date       : 11/14/2015
Time       : 14:58:43
Type      : Warning
Source    : acvpnui
```

```
Description : Function: Module::UpdateControls
File: .\Module.cpp
Line: 344
No matching element found for updating: [System Scan], [label], [nac_panel_message_history], [Checking requirement 1 of 1. ]
```

\*\*\*\*\*

```
Date       : 11/14/2015
Time       : 14:58:46
Type      : Warning
Source    : acvpnui
```

```
Description : Function: CNaCApiShim::PostureNotification
File: .\NacShim.cpp
Line: 461
Clearing Posture List.
```

对于成功的会话，AnyConnect UI系统扫描/消息历史记录报告：



```
14:41:59 Searching for policy server.
14:42:03 Checking for product updates...
14:42:03 The AnyConnect Downloader is performing update checks...
14:42:04 Checking for profile updates...
14:42:04 Checking for product updates...
14:42:04 Checking for customization updates...
14:42:04 Performing any required updates...
14:42:04 The AnyConnect Downloader updates have been completed.
14:42:03 Update complete.
14:42:03 Scanning system ...
14:42:05 Checking requirement 1 of 1.
14:42:05 Updating network settings.
14:42:10 Compliant.
```

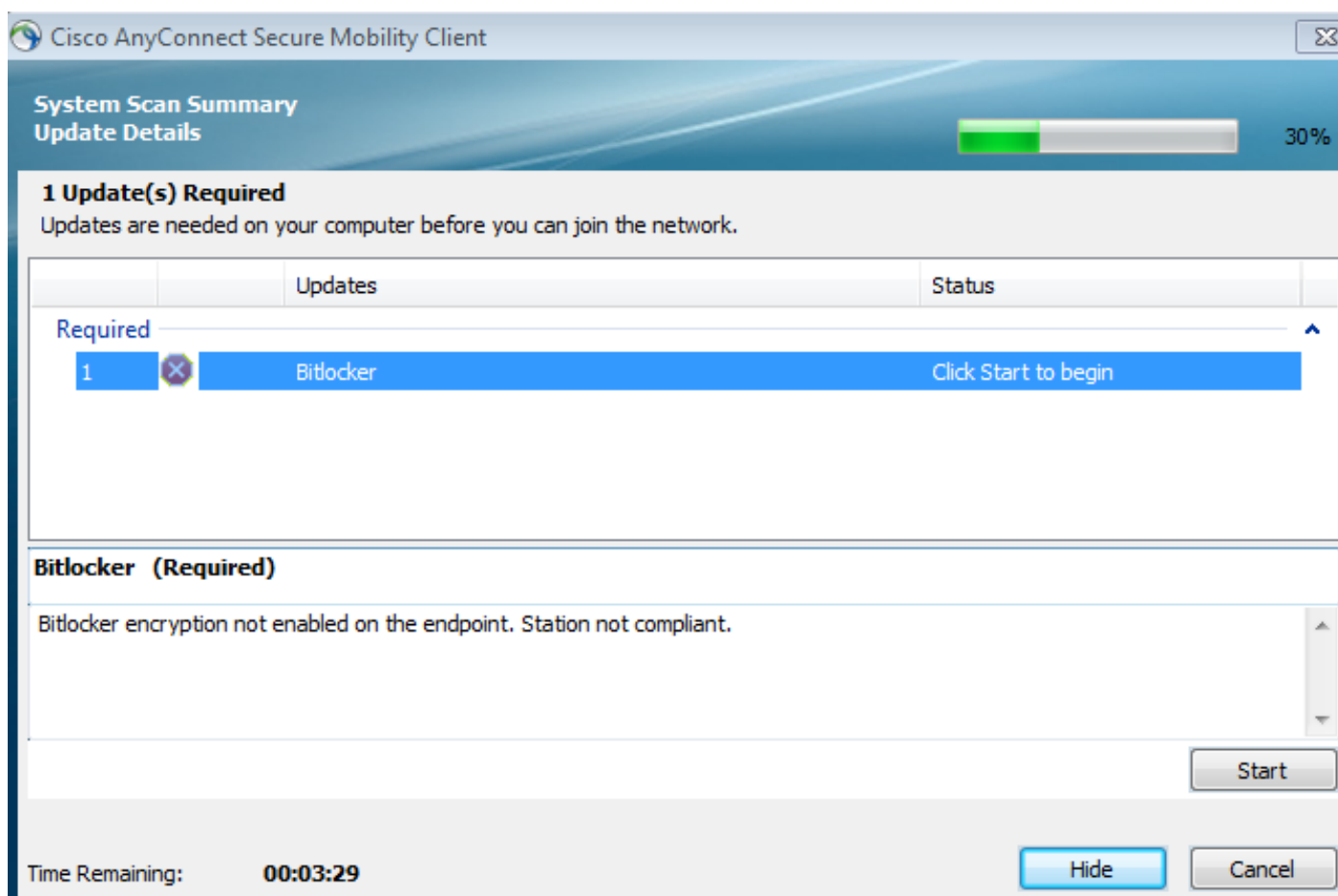
## Bug

[CSCux15941](#) - ISE 2.0和AC4.2状态与位置失败(/的bitlocker加密不支持的字符\)

## Troubleshoot

本部分提供了可用于对配置进行故障排除的信息。

如果终端是固执的，由AnyConnect UI报告(也被配置的修正被执行)如镜像所显示。



如镜像所显示，ISE能提供细节在失败条件。

Identity Services Engine Home Operations Policy Guest Access Administration Work Centers

RADIUS Livelog TACACS Livelog Reports Troubleshoot Adaptive Network Control

**Report Selector**

**Favorites**

**ISE Reports**

- ▶ Audit  
10 reports
- ▶ Device Administration  
4 reports
- ▶ Diagnostics  
10 reports
- ▼ **Endpoints and Users**
- Authentication Summary
- Client Provisioning
- Current Active Sessions
- External Mobile Device Management
- Identity Mapping
- Manual Certificate Provisioning
- Posture Assessment by Condition
  - Filters

\* Time Range

**Posture Assessment by Condition**

From 11/14/2015 12:00:00 AM to 11/14/2015 02:36:59 PM

Logged At	Postur	Identit	Endpoint ID	IP Address	Endpoint OS	Policy	Enforcement	Condition	Condition name
2015-11-14 14:35:32.3	✘	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
2015-11-14 14:35:32.3	✘	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Skipped	hd_loc_bitlocker_specific_1
2015-11-14 14:32:07.0	✘	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Failed	hd_inst_BitLockerDriveEncryption_10_x
2015-11-14 14:32:07.0	✘	cisco	08:00:27:81:50:8	10.62.145.44	Windows 7 Ulti	Bitlocker	Mandatory	Skipped	hd_loc_bitlocker_specific_1

同样可以从CLI日志被检查(登录部分的示例验证)。

## Related Information

- [为安全设备用户授权配置外部服务器](#)
- [思科 ASA 系列 VPN CLI 配置指南，版本 9.1](#)
- [思科身份服务引擎管理员指南，版本2.0](#)
- [Technical Support & Documentation - Cisco Systems](#)