将SWA与SMA集成

目录

简介

本文档介绍将安全网络设备(SWA)集成到安全管理设备(SMA)的过程。

先决条件

要求

建议掌握下列主题的相关知识：

- 访问SWA的图形用户界面(GUI)。
- 对SWA的管理访问。
- 对SMA的管理访问。

使用的组件

本文档不限于特定的软件和硬件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原

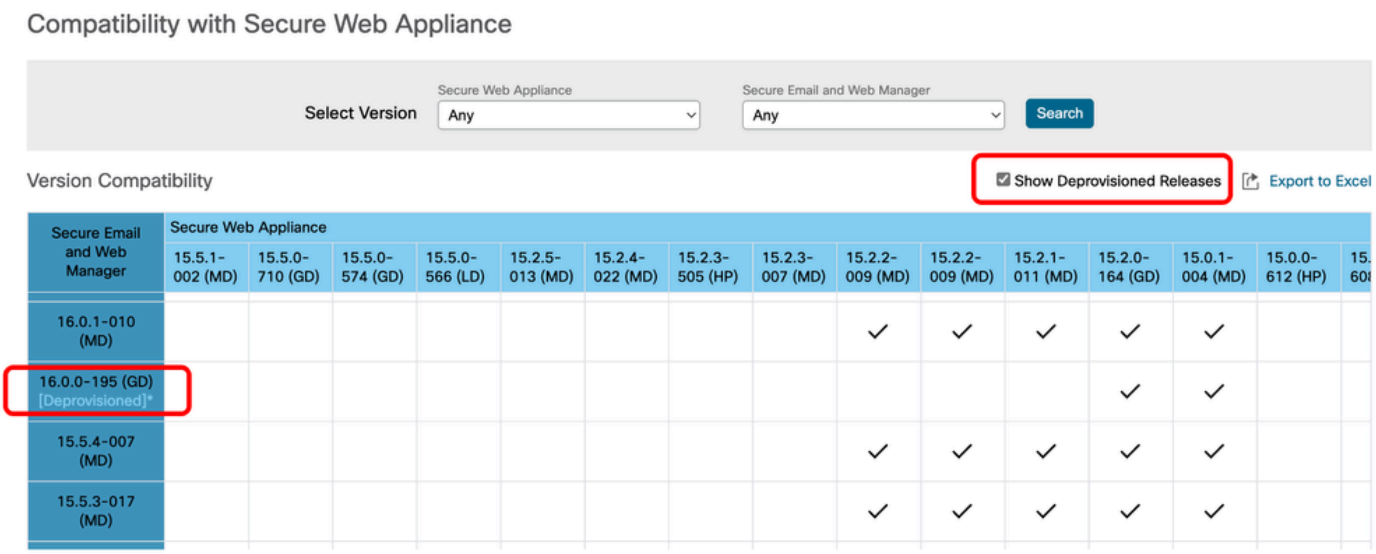
始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

开始使用前

1.确保SMA和SWA均已获得许可。

2.检查SWA和SMA的兼容性矩阵，请使用此链接：[SWA-SMA-ESA兼容性矩阵]。

注意：确保没有取消调配您计划集成的版本。



Compatibility with Secure Web Appliance

Select Version — Secure Web Appliance: Any — Secure Email and Web Manager: Any — Search

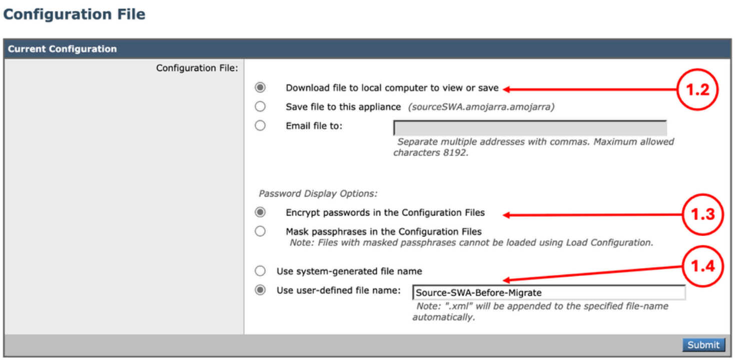
Version Compatibility — ☑ Show Deprovisioned Releases — Export to Excel

Secure Email and Web Manager	Secure Web Appliance														
	15.5.1-002 (MD)	15.5.0-710 (GD)	15.5.0-574 (GD)	15.5.0-566 (LD)	15.2.5-013 (MD)	15.2.4-022 (MD)	15.2.3-505 (HP)	15.2.3-007 (MD)	15.2.2-009 (MD)	15.2.2-009 (MD)	15.2.1-011 (MD)	15.2.0-164 (GD)	15.0.1-004 (MD)	15.0.0-612 (HP)	15. 60
16.0.1-010 (MD)									✓	✓	✓	✓	✓		
16.0.0-195 (GD) [Deprovisioned]*												✓	✓		
15.5.4-007 (MD)									✓	✓	✓	✓	✓		
15.5.3-017 (MD)									✓	✓	✓	✓	✓		

映像 — 取消调配的版本

将SWA集成到SMA的步骤

步骤1.从SWA导出配置文件	第1.1步：从GUI中，导航到System Administration并选择Configuration File。 第1.2步：确保已选择将文件下载到本地计算机以查看或保存。 第1.3步：在配置文件中选择加密密码。 第1.4步(可选)选择配置文件的名称。 第1.5步。单击提交。



Configuration File

Current Configuration

Configuration File:

● Download file to local computer to view or save

○ Save file to this appliance (sourceSWA.amojarra.amojarra)

○ Email file to:

Separate multiple addresses with commas. Maximum allowed characters 8192.

Password Display Options:

● Encrypt passwords in the Configuration Files

○ Mask passphrases in the Configuration Files
Note: Files with masked passphrases cannot be loaded using Load Configuration.

○ Use system-generated file name

● Use user-defined file name: Source-SWA-Before-Migrate
Note: ".xml" will be appended to the specified file-name automatically.

映像 — 导出配置文件

步骤2.创建配置管理器

注意：如果Configuration Manager已在SMA中配置，请跳至步骤4。

步骤2.1.从SMA GUI中单击Web选项卡卡。

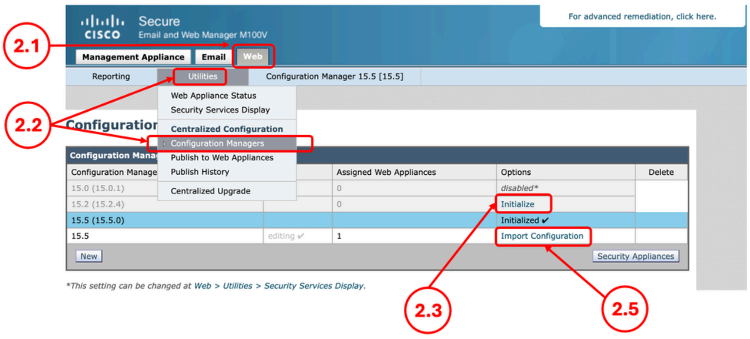
第2.2步：从实用程序选择Configuration Manager。

第2.3步：如果配置管理器尚未初始化，请点击所需配置管理器的Initialize链接，否则跳至第2.5步。

提示：Configuration Manager版本必须与SWA版本的前两个网段保持一致。例如，如果您的SWA版本是15.5.0-710，则必须使用Configuration Manager 15.5。

第2.4步：选择使用默认设置，然后点击Initialize。

第2.5步：点击所需的Configuration Manager的Import Configuration。



Configuration Manager 15.5 [15.5]

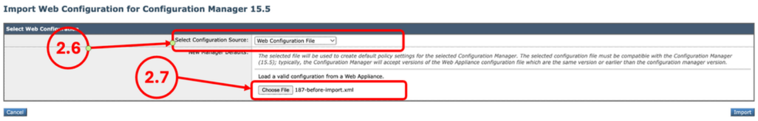
Configuration Manage		Assigned Web Appliances	Options	Delete
15.0 (15.0.1)		0	disabled*	
15.2 (15.2.4)		0	Initialize	
15.5 (15.5.0)			Initialized ✔	
15.5	editing ✔	1	Import Configuration	

*This setting can be changed at Web > Utilities > Security Services Display.

映像 — 配置管理器

第2.6步：从Select Configuration Source中选择Web Configuration File。

第2.7步。选择您在第1步中导出的配置文件。

<table>
<tr>
<td></td>
<td>


Import Web Configuration for Configuration Manager 15.5

Select Web Configuration

Select Configuration Source: Web Configuration File

New Manager Defaults: The selected file will be used to create default policy settings for the selected Configuration Manager. The selected configuration file must be compatible with the Configuration Manager (15.5); typically, the Configuration Manager will accept versions of the Web Appliance configuration file which are the same version or earlier than the configuration manager version.

Load a valid configuration from a Web Appliance.

Choose File 187-before-import.xml

映像 — 导入配置

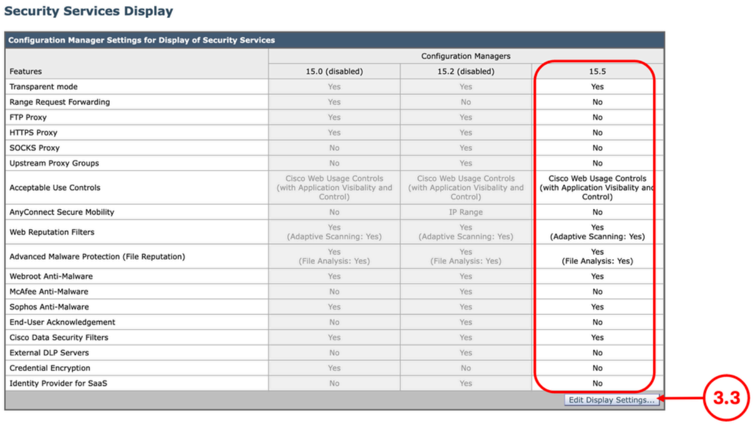
第2.8步。单击导入。

步骤2.9.提交更改。
</td>
</tr>
<tr>
<td>步骤3. Configuration Manager设置</td>
<td>
步骤3.1.从SMA GUI单击Web选项卡卡。

第3.2步：从Utilities中选择Security Services Display。

第3.3步：确保所需的功能配置正确，您可以启用或禁用编辑显示设置的功能。

第3.4步：如果进行了任何更改，请提交并提交。



Security Services Display

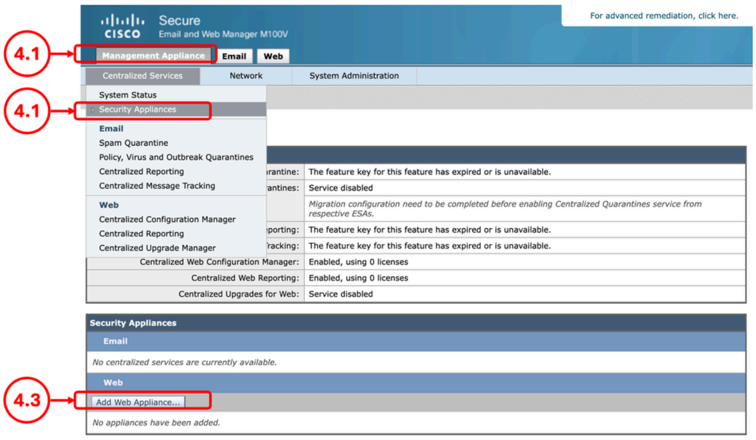
Configuration Manager Settings for Display of Security Services

<table>
<tr><th></th><th colspan="3">Configuration Managers</th></tr>
<tr><th>Features</th><th>15.0 (disabled)</th><th>15.2 (disabled)</th><th>15.5</th></tr>
<tr><td>Transparent mode</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Range Request Forwarding</td><td>Yes</td><td>No</td><td>No</td></tr>
<tr><td>FTP Proxy</td><td>Yes</td><td>Yes</td><td>No</td></tr>
<tr><td>HTTPS Proxy</td><td>Yes</td><td>Yes</td><td>No</td></tr>
<tr><td>SOCKS Proxy</td><td>No</td><td>Yes</td><td>No</td></tr>
<tr><td>Upstream Proxy Groups</td><td>No</td><td>Yes</td><td>No</td></tr>
<tr><td>Acceptable Use Controls</td><td>Cisco Web Usage Controls (with Application Visibality and Control)</td><td>Cisco Web Usage Controls (with Application Visibality and Control)</td><td>Cisco Web Usage Controls (with Application Visibality and Control)</td></tr>
<tr><td>AnyConnect Secure Mobility</td><td>No</td><td>IP Range</td><td>No</td></tr>
<tr><td>Web Reputation Filters</td><td>Yes
(Adaptive Scanning: Yes)</td><td>Yes
(Adaptive Scanning: Yes)</td><td>Yes
(Adaptive Scanning: Yes)</td></tr>
<tr><td>Advanced Malware Protection (File Reputation)</td><td>Yes
(File Analysis: Yes)</td><td>Yes
(File Analysis: Yes)</td><td>Yes
(File Analysis: Yes)</td></tr>
<tr><td>Webroot Anti-Malware</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>McAfee Anti-Malware</td><td>No</td><td>Yes</td><td>No</td></tr>
<tr><td>Sophos Anti-Malware</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>End-User Acknowledgement</td><td>No</td><td>Yes</td><td>No</td></tr>
<tr><td>Cisco Data Security Filters</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>External DLP Servers</td><td>No</td><td>Yes</td><td>No</td></tr>
<tr><td>Credential Encryption</td><td>Yes</td><td>No</td><td>No</td></tr>
<tr><td>Identity Provider for SaaS</td><td>No</td><td>Yes</td><td>No</td></tr>
</table>

图像 — 安全服务显示
</td>
</tr>
<tr>
<td>步骤4.添加Web设备</td>
<td>
第4.1步：从SMA GUI中点击管理设备选项卡。

第4.2步：从集中服务选择安全设备。

第4.3步：点击添加Web设备
</td>
</tr>
</table>



rantine:	The feature key for this feature has expired or is unavailable.
antines:	Service disabled
	Migration configuration need to be completed before enabling Centralized Quarantines service from respective ESAs.
porting:	The feature key for this feature has expired or is unavailable.
racking:	The feature key for this feature has expired or is unavailable.
Centralized Web Configuration Manager:	Enabled, using 0 licenses
Centralized Web Reporting:	Enabled, using 0 licenses
Centralized Upgrades for Web:	Service disabled

Security Appliances

Email

No centralized services are currently available.

Web

No appliances have been added.

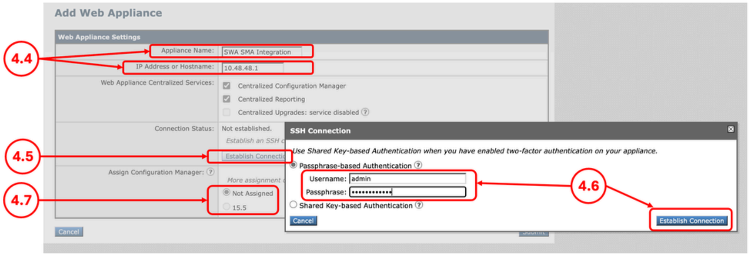
图像 — 添加Web设备

步骤4.4.输入设备名称和IP地址或主机名。

第4.5步。单击建立连接。

第4.6步：输入Username和Passphrase，然后单击Establish Connection。

步骤4.7.分配Configuration Manager。



Appliance Name: SWA SMA Integration

IP Address or Hostname: 10.48.48.1

Web Appliance Centralized Services: ☑ Centralized Configuration Manager ☑ Centralized Reporting □ Centralized Upgrades: service disabled

Connection Status: Not established.

Establish an SSH c

Establish Connecti

Assign Configuration Manager:

More assignment o

● Not Assigned ○ 15.5

Use Shared Key-based Authentication when you have enabled two-factor authentication on your appliance.

● Passphrase-based Authentication

Username: admin

Passphrase: ••••••••••••

○ Shared Key-based Authentication

图像 — 添加SWA

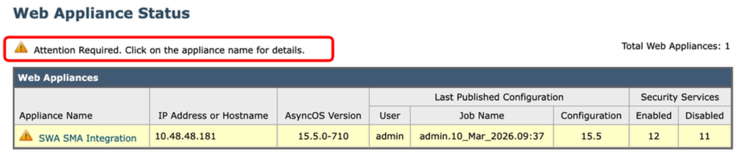
步骤4.8.提交并提交更改。

步骤5.验证集成

步骤5.1.在SMA GUI中，点击Web选项卡卡。

第5.2步：从Utilities中，选择Web Appliance Status。

第5.3步：如果您看到警告消息“Attention Required”。点击设备名称了解详细信息，点击SWA的名称，然后查看详细信息。



Web Appliance Status

Attention Required. Click on the appliance name for details.

Total Web Appliances: 1

Web Appliances

			Last Published Configuration			Security Services	
Appliance Name	IP Address or Hostname	AsyncOS Version	User	Job Name	Configuration	Enabled	Disabled
SWA SMA Integration	10.48.48.181	15.5.0-710	admin	admin.10_Mar_2026.09:37	15.5	12	11

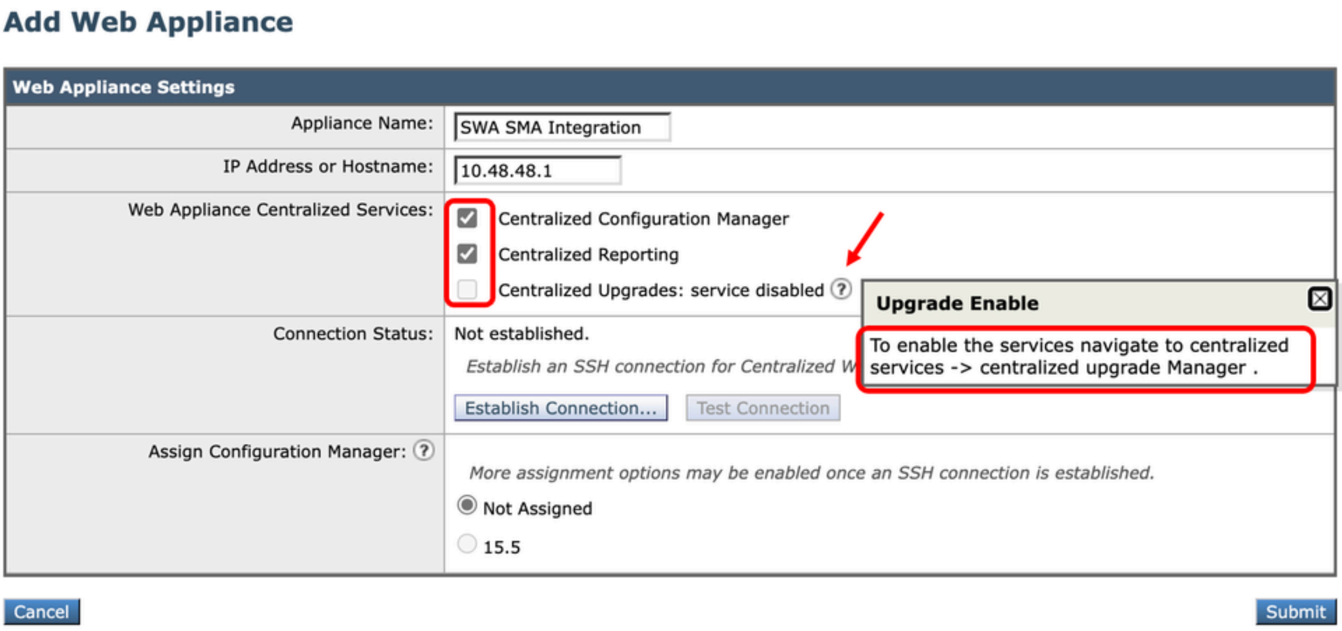
图像 — Web设备状态

	提示：对于故障排除，请查看本文的修复错误部分。

修复错误

"集中服务已禁用"

当您尝试选择集中服务时，如果复选框处于非活动状态，请点击问号(?)，指南将引导您通过路径来启用该服务。



Add Web Appliance

Web Appliance Settings

Appliance Name:	SWA SMA Integration
IP Address or Hostname:	10.48.48.1
Web Appliance Centralized Services:	☑ Centralized Configuration Manager ☑ Centralized Reporting □ Centralized Upgrades: service disabled ?
Connection Status:	Not established. *Establish an SSH connection for Centralized W*
Assign Configuration Manager: ?	*More assignment options may be enabled once an SSH connection is established.* ● Not Assigned ○ 15.5

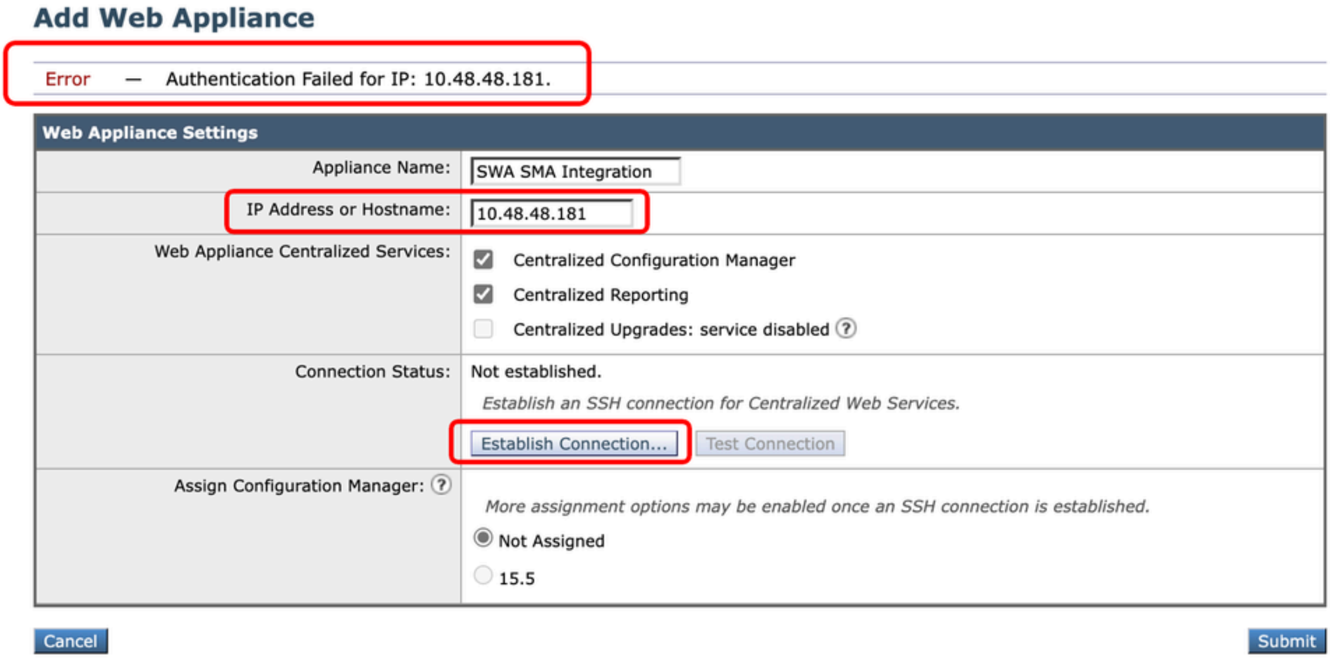
Upgrade Enable

To enable the services navigate to centralized services -> centralized upgrade Manager .

映像 — 集中服务已禁用

"IP身份验证失败"

如果您收到此错误，请将SWA集成到SMA时，请确保IP地址或主机名以及凭证正确。



Add Web Appliance

Error — Authentication Failed for IP: 10.48.48.181.

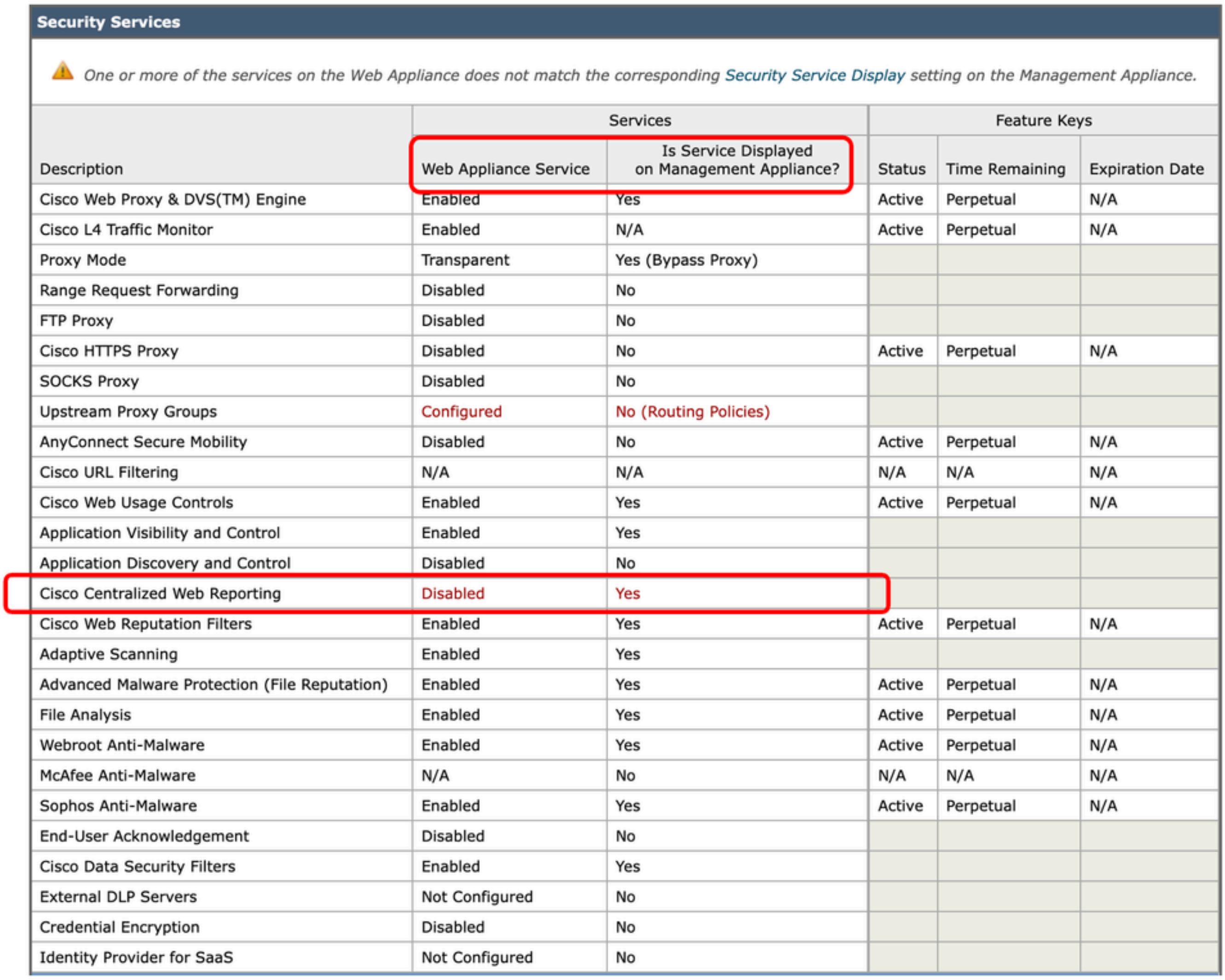
Web Appliance Settings

Appliance Name:	SWA SMA Integration
IP Address or Hostname:	10.48.48.181
Web Appliance Centralized Services:	☑ Centralized Configuration Manager ☑ Centralized Reporting □ Centralized Upgrades: service disabled ?
Connection Status:	Not established. *Establish an SSH connection for Centralized Web Services.* Establish Connection... Test Connection
Assign Configuration Manager: ?	*More assignment options may be enabled once an SSH connection is established.* ● Not Assigned ○ 15.5

映像 — 身份验证失败

“思科集中网络报告在SWA中已禁用”

如果SMA配置了集中网络报告，并且您在“第4步”中将SWA集成到SMA时将该功能分配给SWA，则需要启用Cisco Centralized Web Reporting:



Security Services

⚠ *One or more of the services on the Web Appliance does not match the corresponding Security Service Display setting on the Management Appliance.*

	Services		Feature Keys		
Description	Web Appliance Service	Is Service Displayed on Management Appliance?	Status	Time Remaining	Expiration Date
Cisco Web Proxy & DVS(TM) Engine	Enabled	Yes	Active	Perpetual	N/A
Cisco L4 Traffic Monitor	Enabled	N/A	Active	Perpetual	N/A
Proxy Mode	Transparent	Yes (Bypass Proxy)			
Range Request Forwarding	Disabled	No			
FTP Proxy	Disabled	No			
Cisco HTTPS Proxy	Disabled	No	Active	Perpetual	N/A
SOCKS Proxy	Disabled	No			
Upstream Proxy Groups	Configured	No (Routing Policies)			
AnyConnect Secure Mobility	Disabled	No	Active	Perpetual	N/A
Cisco URL Filtering	N/A	N/A	N/A	N/A	N/A
Cisco Web Usage Controls	Enabled	Yes	Active	Perpetual	N/A
Application Visibility and Control	Enabled	Yes			
Application Discovery and Control	Disabled	No			
Cisco Centralized Web Reporting	Disabled	Yes			
Cisco Web Reputation Filters	Enabled	Yes	Active	Perpetual	N/A
Adaptive Scanning	Enabled	Yes			
Advanced Malware Protection (File Reputation)	Enabled	Yes	Active	Perpetual	N/A
File Analysis	Enabled	Yes	Active	Perpetual	N/A
Webroot Anti-Malware	Enabled	Yes	Active	Perpetual	N/A
McAfee Anti-Malware	N/A	No	N/A	N/A	N/A
Sophos Anti-Malware	Enabled	Yes	Active	Perpetual	N/A
End-User Acknowledgement	Disabled	No			
Cisco Data Security Filters	Enabled	Yes			
External DLP Servers	Not Configured	No			
Credential Encryption	Disabled	No			
Identity Provider for SaaS	Not Configured	No			

图像 — 在SWA中禁用集中网络报告

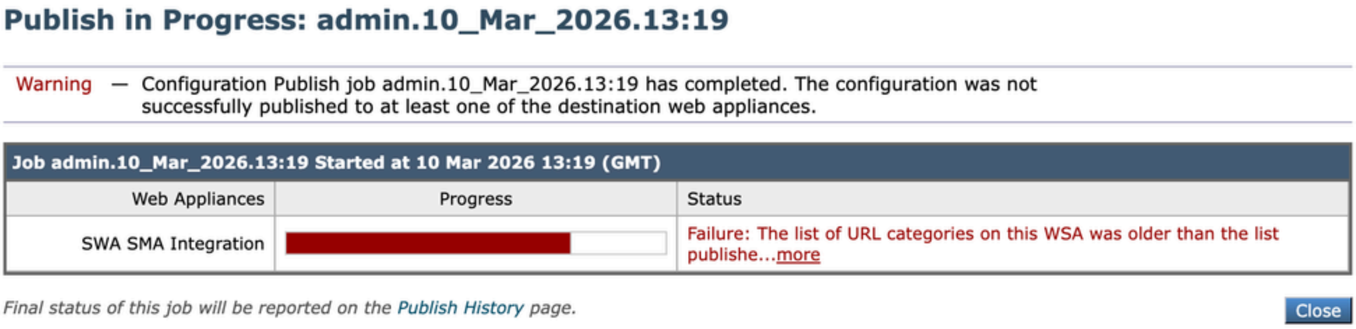
要解决此问题，请从CLI连接到SWA并键入reportingconfig并选择CENTRALIZED，按照向导操作以启用集中报告并提交更改。

```
SWA_CLI> reportingconfig

Choose the operation you want to perform:
- COUNTERS - Limit counters recorded by the reporting system.
- WEBTRACKINGQUERYTIMEOUT - Timeout value for Webtracking Queries.
- AVERAGEOBJECTSIZE - Average HTTP Object Size used for Bandwidth Savings Calculation.
- WEBEVENTBUCKETING - Enable or Disable web transaction event bucketing.
- CTROBSERVABLE - Enable or Disable CTR observable based indexing.
- CENTRALIZED - Enable/Disable Centralized Reporting for this Secure Web Appliance.
[]> CENTRALIZED

Reporting service status: Local Reporting enabled.  (Show usernames in reports.)

Do you want to enable Centralized Reporting for this appliance? [N]> Y

Do you want to anonymize usernames in reports? [N]> N

Reporting service status: Centralized Reporting enabled.  (Show usernames in reports.)
```

```
Choose the operation you want to perform:
- COUNTERS - Limit counters recorded by the reporting system.
- WEBTRACKINGQUERYTIMEOUT - Timeout value for Webtracking Queries.
- AVERAGEOBJECTSIZE - Average HTTP Object Size used for Bandwidth Savings Calculation.
- WEBEVENTBUCKETING - Enable or Disable web transaction event bucketing.
- CTROBSERVABLE - Enable or Disable CTR observable based indexing.
- CENTRALIZED - Enable/Disable Centralized Reporting for this Secure Web Appliance.
[]>

SWA_CLI> commit
```

"此WSA上的URL类别列表早于从SMA发布的列表"

如果您将配置发布到SWA并收到Error（错误）指示SWA和SMA中的URL类别列表不同，请确保两个设备均可连接到Cisco Update Server，并且“updater_logs”中没有错误：



Publish in Progress: admin.10_Mar_2026.13:19

Warning — Configuration Publish job admin.10_Mar_2026.13:19 has completed. The configuration was not successfully published to at least one of the destination web appliances.

Job admin.10_Mar_2026.13:19 Started at 10 Mar 2026 13:19 (GMT)		
Web Appliances	Progress	Status
SWA SMA Integration		Failure: The list of URL categories on this WSA was older than the list publishe...more

Final status of this job will be reported on the Publish History page.

图像 — URL类别列表不匹配

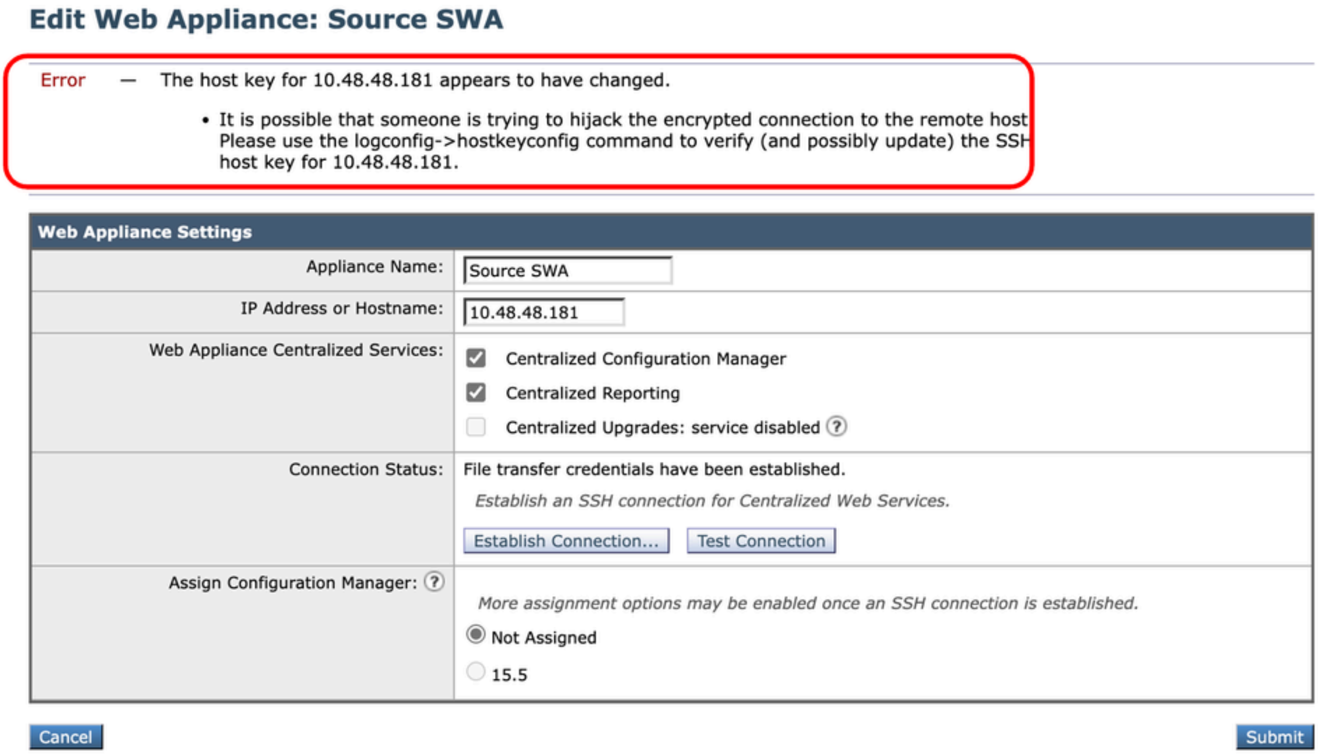
要强制SWA或SMA下载更新，请从CLI键入updatenow。

要查看与更新相关的SMA或SMA日志，请从CLI键入grep并选择与updater_logs关联的编号，然后按照向导操作

提示：要查看实时日志，请在答案Do you want to tail the logs？（是否要跟踪日志？）中键入“Y”。[N]>。

"主机密钥似乎已更改"

如果您将SWA集成到SMA并收到“Error that the host key has been changed”（主机密钥已更改），这是因为SMA在其密钥存储中存储了同一IP地址的不同主机密钥。



Edit Web Appliance: Source SWA

Error — The host key for 10.48.48.181 appears to have changed.

- It is possible that someone is trying to hijack the encrypted connection to the remote host Please use the logconfig->hostkeyconfig command to verify (and possibly update) the SSH host key for 10.48.48.181.

Web Appliance Settings	
Appliance Name:	Source SWA
IP Address or Hostname:	10.48.48.181
Web Appliance Centralized Services:	☑ Centralized Configuration Manager ☑ Centralized Reporting □ Centralized Upgrades: service disabled ?
Connection Status:	File transfer credentials have been established. *Establish an SSH connection for Centralized Web Services.* Establish Connection... Test Connection
Assign Configuration Manager: ?	*More assignment options may be enabled once an SSH connection is established.* ● Not Assigned ○ 15.5

图像 — 主机密钥似乎已更改

要解决此错误，请登录SMA的CLI，运行logconfig并输入HOSTKEYCONFIG。键入DELETE，然后按Enter。然后，选择与SWA关联的编号，然后按Enter直到完成向导。

提交更改：

```
SMA_CLI> logconfig

Currently configured logs:
    Log Name            Log Type                      Retrieval           Interval
 --------------------------------------------------------------------------------
 1. aggregatord_logs    Aggregatord Logs              Manual Download     None
 2. authentication      Authentication Logs           Manual Download     None
...

Choose the operation you want to perform:
- NEW - Create a new log.
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- DELETELOGFILE - Delete log files
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> HOSTKEYCONFIG

Currently installed host keys:
1. 10.48.48.182 ssh-rsa AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA...ZhW4gEXWE=
2. 10.48.48.181 ssh-rsa BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBb...4p74b9Q9k=

Choose the operation you want to perform:
- NEW - Add a new key.
- EDIT - Modify a key.
- DELETE - Remove a key.
- SCAN - Automatically download a host key.
- PRINT - Display a key.
- HOST - Display system host keys.
- FINGERPRINT - Display system host key fingerprints.
- USER - Display system user keys.
- REGENERATESCPKEYS - Regenerate SSH Keys for SCP Log Subscription Retrieval.
[]> DELETE

Enter the number of the key you wish to delete.
[]> 2

Currently installed host keys:
1. 10.62.131.143 ssh-rsa AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA...ZhW4gEXWE=

...
SMA_CLI> commit
```

相关信息

- 思科安全Web设备AsyncOS 15.2用户指南
- 在Vmware ESXi上安装安全Web设备
- 在Microsoft Hyper-V上安装安全Web设备

- 安全Web设备初始设置

- 思科安全邮件和Web虚拟设备安装指南
- 在安全Web设备中配置自定义URL类别 — 思科

- 使用安全Web设备最佳实践

- 为安全Web设备配置防火墙

- 在安全Web设备中配置解密证书

- 安全网络设备DNS服务故障排除

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