

排除ASDM许可证、升级和兼容性问题

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简介

本文档介绍ASDM许可证、升级和兼容性问题的故障排除过程。

背景

本文档是自适应安全设备管理器(ASDM)故障排除系列的一部分，包括以下文档：

- [排除ASDM启动问题](#)
- [排除ASDM配置、身份验证和其他问题](#)
- [排除ASDM TLS安全、证书和漏洞问题](#)

ASDM升级问题

问题1.如何将ASA/ASDM从源版本X升级到目标版本Y?

用户需要从源版本X升级到目标版本Y的ASA/ASDM升级帮助。

故障排除 — 建议的操作

1.确保ASA、ASDM、操作系统和Java版本与目标版本兼容。请参阅 [思科安全防火墙ASA版本说明](#), [思科安全防火墙ASDM版本说明](#), [思科安全防火墙ASA兼容性](#).

ASA、ASDM、操作系统和Java版本必须兼容，而且目标版本必须在特定硬件上支持。

<https://www.cisco.com/c/en/us/td/docs/security/firepower/fxos/compatibility/fxos-compatibility.html>

2.对于在Firepower 4100/9300上运行的ASA，确保Firepower可扩展操作系统(FXOS)与ASA软件版本兼容。请参阅[Cisco Firepower 4100/9300 FXOS兼容性](#)。

3.检查目标版本中的更改，确保熟悉这些更改。 [思科安全防火墙ASA版本说明](#), [思科安全防火墙ASDM版本说明](#).如果是 Firepower 4100/9300，通过查看 [FXOS版本说明](#).

4.确保检查版本说明中的升级路径。在本示例中，版本7.22发行版本注释中的[表2包含从早期版本到目标版本的升级路径](#)：

Upgrade the Software

This section provides the upgrade path information and a link to complete your upgrade.

Upgrade Link

To complete your upgrade, see the [ASA upgrade guide](#).

Upgrade Path: ASA Appliances

To view your current version and model, use one of the following methods:

- ASDM: Choose **Home > Device Dashboard > Device Information**.
- CLI: Use the `show version` command.

This table provides upgrade paths for ASA. Some older versions require an intermediate upgrade before you can upgrade to a newer version. Recommended versions are in **bold**.

Be sure to check the upgrade guidelines for each release between your starting version and your ending version. You may need to change your configuration before upgrading in some cases, or else you could experience an outage. For guidance on security issues on the ASA, and which releases contain fixes for each issue, see the [ASA Security Advisories](#).

Note

- ASA 9.20 was the final version for the Firepower 2100.
- ASA 9.18 was the final version for the Firepower 4110, 4120, 4140, 4150, and Security Modules SM-24, SM-36, and SM-44 for the Firepower 9300.
- ASA 9.16 was the final version for the ASA 5506-X, 5508-X, and 5516-X.
- ASA 9.14 was the final version for the ASA 5525-X, 5545-X, and 5555-X.
- ASA 9.12 was the final version for the ASA 5512-X, 5515-X, 5585-X, and ASASM.
- ASA 9.2 was the final version for the ASA 5505.
- ASA 9.1 was the final version for the ASA 5510, 5520, 5540, 5550, and 5580.

Table 2. Upgrade Path

Current Version	Interim Upgrade Version	Target Version
9.20	–	Any of the following: → 9.22
9.19	–	Any of the following: → 9.22 → 9.20
9.18	–	Any of the following: → 9.22 → 9.20 → 9.19
9.17	–	Any of the following: → 9.22 → 9.20 → 9.19 → 9.18
9.16	–	Any of the following: → 9.22 → 9.20 → 9.19 → 9.18 → 9.17

5. 满足兼容性要求后，从“软件下载”页面下载目标ASA/ASDM和FXOS版本（仅限Firepower 4100/9300）。确保选择特定硬件型号，如本例所示。推荐的版本以金星标记：

The screenshot shows the Cisco Software Download interface. At the top, there is a search bar with the text "Product Name e.g. 2911" and a "Browse all" button. Below the search bar, there is a breadcrumb trail: "Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW)". The main content area is divided into three columns. The left column lists various product categories, with "Security" highlighted. The middle column lists "3000 Series Industrial Security Appliances (ISA)", "Adaptive Security Appliances (ASA)", "Firewall Management", "Next-Generation Firewalls (NGFW)", and "Secure Firewall Migration Tool". The right column lists "ASA 5500-X with FirePOWER Services" and several series: "Firepower 1000 Series", "Firepower 2100 Series", "Firepower 4100 Series", "Firepower 9300 Series", "Secure Firewall 1200 Series", "Secure Firewall 3100 Series", "Secure Firewall 4200 Series", and "Secure Firewall Threat Defense Virtual". Below this, there is a "Software Download" section with a breadcrumb trail: "Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / Secure Firewall 3100 Series / Secure Firewall 3120". A "Select a Software Type" dropdown menu is shown, with "Adaptive Security Appliance (ASA) Device Manager" and "Adaptive Security Appliance (ASA) Software" selected.

6. 确保完成本章：[规划升级](#)和[章节：Cisco Secure Firewall ASA升级指南中的ASA升级](#)。

参考

- [思科安全防火墙ASA版本说明](#)
- [思科安全防火墙ASDM版本说明](#)
- [思科安全防火墙ASA兼容性](#)
- [Cisco Firepower 4100/9300 FXOS兼容性](#)
- [思科安全防火墙ASA升级指南](#)

问题2.推荐的ASA/ASDM版本是什么？

用户询问ASA/ASDM的推荐版本。

故障排除 — 建议的操作

Cisco TAC不提供有关软件版本的建议。用户可根据软件质量、稳定性和寿命下载思科建议版本。建议的版本以金星标记，如下所示：

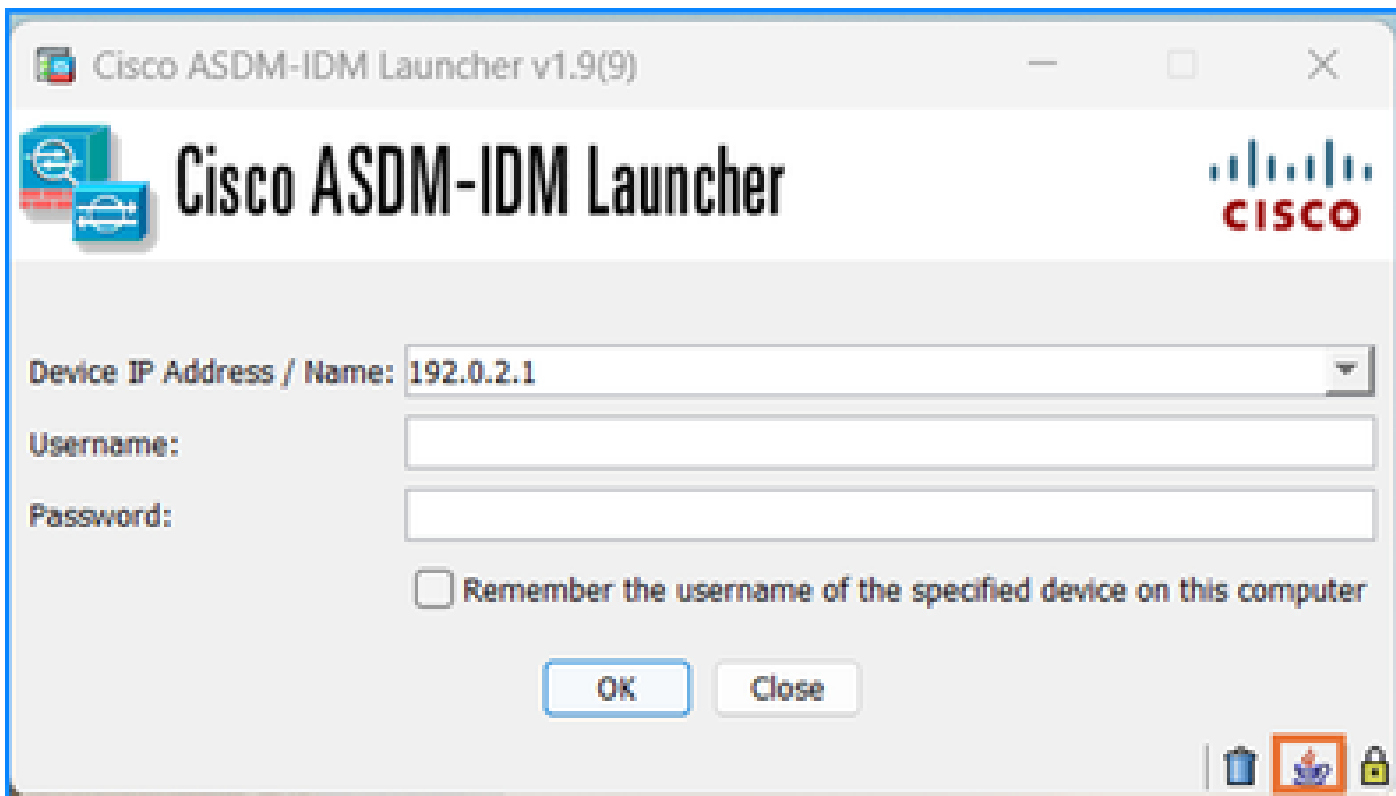
The screenshot shows the Cisco Software Download page for Secure Firewall 3120. The page title is "Software Download". The breadcrumb trail is: Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / Secure Firewall 3100 Series / Secure Firewall 3120 / Adaptive Security Appliance (ASA) Software- 9.20.3 Interim. The main content area is titled "Secure Firewall 3120" and "Release 9.20.3 Interim". There is a search bar and "Expand All" / "Collapse All" buttons. A "Suggested Release" dropdown menu is open, showing "9.20.3 Interim" with a gold star icon, indicating it is the recommended version. Below it, the "Latest Release" dropdown shows "9.20.3 Interim" with a gold star icon, and other versions like "9.22.1", "9.20.3", "9.18.4", "All Release", "Interim", and "9". A warning message states: "Interim releases contain bug fixes which address specific issues found since the last Feature or Maintenance release. These images are fully supported by Cisco TAC, and will remain on the download site at least until the next Maintenance release is available." A table of file information is shown below:

File Information	Release Date	Size	
Cisco Adaptive Security Appliance for the Cisco Firepower 3100 Series. cisco-asa-fp3k.9.20.3.7.SPA Advisories	21-Oct-2024	664.32 MB	↓ 🛒 📄
Cisco Adaptive Security Appliance for the Cisco Firepower 3100 Series. cisco-asa-fp3k.9.20.3.4.SPA Advisories	26-Sep-2024	664.37 MB	↓ 🛒 📄

问题3.通过工具 > 检查ASA/ASDM更新，在ASDM中检查ASA/ASDM更新失败

通过Tools > Check for ASA/ASDM Updates在ASDM中检查ASA/ASDM更新失败。具体来说，可以观察到以下症状：

- 1.单击“登录”按钮后，即使提供了正确的凭证，也会再次出现“输入网络密码”窗口。
- 2.在Java控制台日志中显示“元数据请求失败”错误：




<#root>

```
2024-06-16 13:00:03,471 [ERROR] Error::Failed : Request processing
88887 [Thread-30] ERROR com.cisco.dmcommon.util.DMCommonEnv - Error::Failed : Request processing
2024-06-16 13:00:03,472 [ERROR] Error::Access token request processing failed
88888 [Thread-30] ERROR com.cisco.dmcommon.util.DMCommonEnv - Error::Access token request processing failed
2024-06-16 13:00:04,214 [ERROR] getMetaDataResponse :: Server returned HTTP response code: 403 for URL:
89630 [Thread-30] ERROR com.cisco.dmcommon.util.DMCommonEnv - getMetaDataResponse :: Server returned HTTP response code: 403 for URL:
2024-06-16 13:00:04,214 [ERROR] error::Meta data request failed.
```

```
89630 [Thread-30] ERROR com.cisco.dmcommon.util.DMCommonEnv - error::Meta data request failed.
```

故障排除 — 建议的操作

请参阅软件Cisco Bug ID [CSCvf91260](#)“ASDM:由于不可忽略的字段，从CCO升级不起作用。“元数据请求失败”。解决方法是直接下载映像并上传到防火墙。

 **注意：**此缺陷在最新的ASDM软件版本中已修复。有关详细信息，请查看缺陷详细信息。

问题4.哪些版本包含针对特定漏洞的修复版本？

用户询问特定漏洞的固定版本。

故障排除 — 建议的操作

1. 确保检查受影响产品的安全建议。
2. 在安全建议中，将现有硬件和软件版本提供给软件检查器，然后单击Check:

Fixed Software

When [considering software upgrades](#), customers are advised to regularly consult the advisories for Cisco products, which are available from the [Cisco Security Advisories page](#), to determine exposure and a complete upgrade solution.

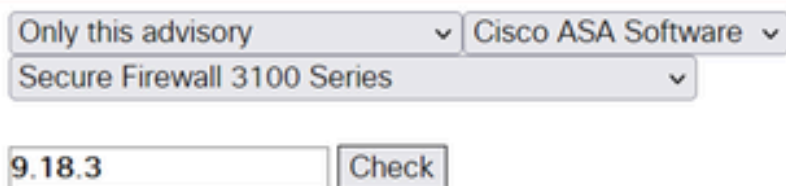
In all cases, customers should ensure that the devices to be upgraded contain sufficient memory and confirm that current hardware and software configurations will continue to be supported properly by the new release. If the information is not clear, customers are advised to contact the Cisco Technical Assistance Center (TAC) or their contracted maintenance providers.

Cisco ASA, FMC, and FTD Software

To help customers determine their exposure to vulnerabilities in Cisco ASA, FMC, and FTD Software, Cisco provides the [Cisco Software Checker](#). This tool identifies any Cisco security advisories that impact a specific software release and the earliest release that fixes the vulnerabilities that are described in each advisory ("First Fixed"). If applicable, the tool also returns the earliest release that fixes all the vulnerabilities that are described in all the advisories that the Software Checker identifies ("Combined First Fixed").

To use the tool, go to the [Cisco Software Checker](#) page and follow the instructions. Alternatively, use the following form to search for vulnerabilities that affect a specific software release. To use the form, follow these steps:

1. Choose which advisories the tool will search—all advisories, only advisories with a Critical or High [Security Impact Rating \(SIR\)](#), or only this advisory.
2. Choose the appropriate software.
3. Choose the appropriate platform.
4. Enter a release number—for example, **9.16.2.11** for Cisco ASA Software or **6.6.7** for Cisco FTD Software.
5. Click **Check**.



Only this advisory ▼ Cisco ASA Software ▼
Secure Firewall 3100 Series ▼
9.18.3 Check

3.如果固定版本可用，请记住“第一个固定”或“未受影响”列中的版本：

Home / Cisco Security / Cisco Software Checker

Cisco Security Cisco Software Checker

1 — 2 — 3 Results for selected Cisco Security Advisories:
Show advisory list Export Selected

software release(s)

9.18.3

Recalculate Back Start Over

Security Advisories That Affect This Release

The following results include the first fixed or not affected release that addresses all vulnerabilities in a security advisory. The availability of security fixes after the End of Sale is defined in the product's End of Sale bulletin, as explained in the [Cisco End-of-Life Policy](#). Please refer to the [Cisco Security Vulnerability Policy](#) for additional information.

TITLE	PUBLICATION DATE	IMPACT	FIRST FIXED OR NOT AFFECTED
<input checked="" type="checkbox"/> Cisco Adaptive Security Appliance and Firepower Threat Defense Software AnyConnect Access Control List Bypass Vulnerabilities	2024 Oct 23	Medium	9.18.3.55 9.18.4
COMBINED FIRST FIXED OR NOT AFFECTED			
9.18.3.55,9.18.4			

4.执行“问题1.如何将ASA/ASDM从源版本X升级到目标版本Y？”中的步骤 部分，用于升级软件。


问题5.“%错误：ASDM包未进行数字签名。拒绝配置。” 错误消息

“%错误：ASDM包未进行数字签名。拒绝配置。” 使用asdm image <image path>命令设置新ASDM映像时出现错误消息。

故障排除 — 建议的操作

1. ASA验证ASDM映像是否为思科数字签名映像。如果您尝试使用此修复程序运行ASA版本的旧版ASDM映像，ASDM将被阻止，并显示消息“%ERROR:签名对文件disk0:/<filename>”无效，将在ASA CLI中显示。ASDM版本7.18(1.152)及更高版本向后兼容所有ASA版本，即使没有此修复程序也如此。请参阅[Cisco ASDM 7.17\(x\)版本说明](#)中的重要说明部分。

2.对于在安全防火墙3100上运行的ASA，请检查软件Cisco bug ID [CSCwc12322](#) “Digital signed ASDM image verification error on FPR3100 platforms (FPR3100平台上的数字签名ASDM映像验证错误)”。

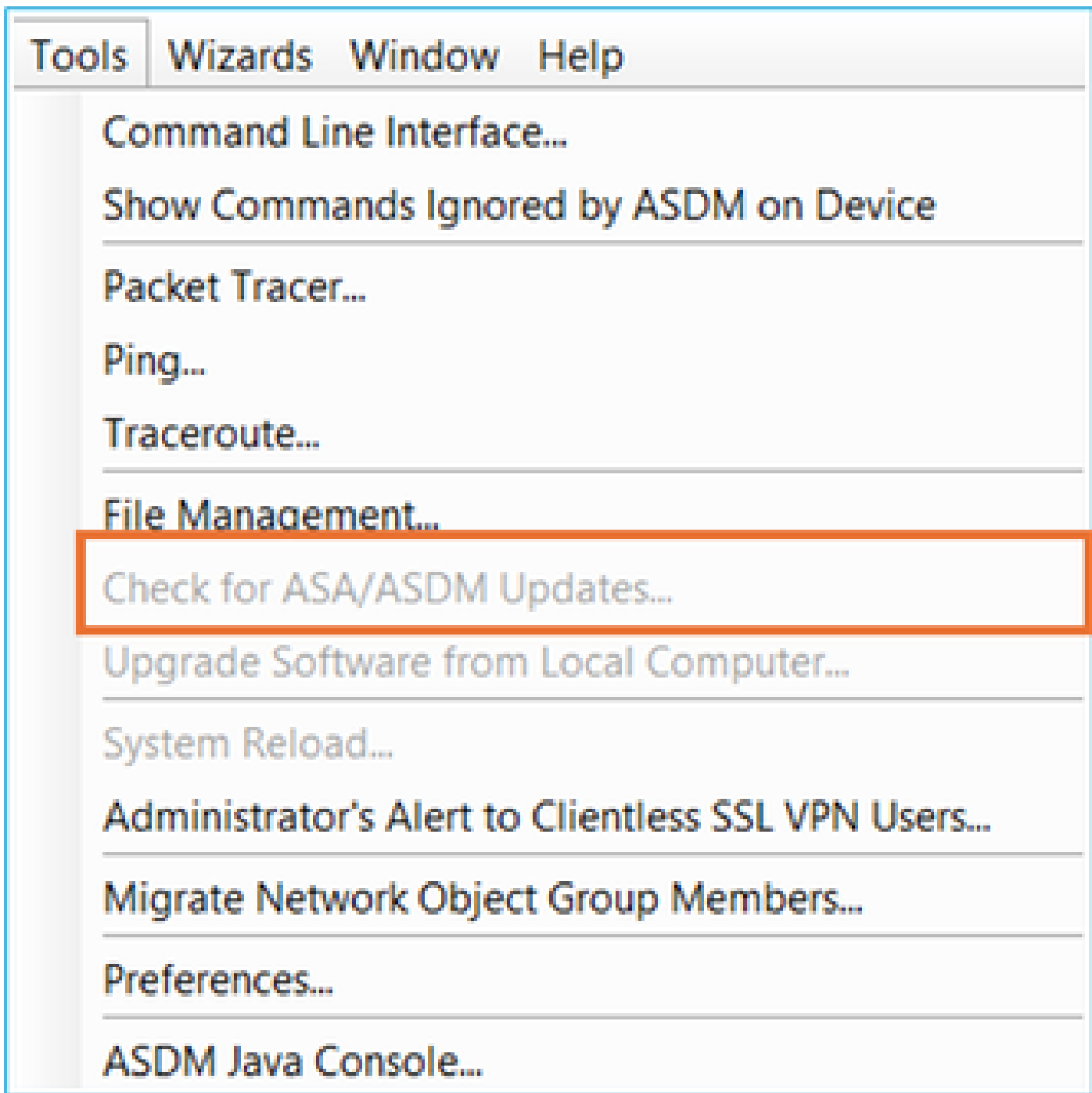
 注意：此缺陷在最新的ASDM软件版本中已修复。有关详细信息，请查看缺陷详细信息。

参考

- [思科ASDM 7.17\(x\)版本说明](#)

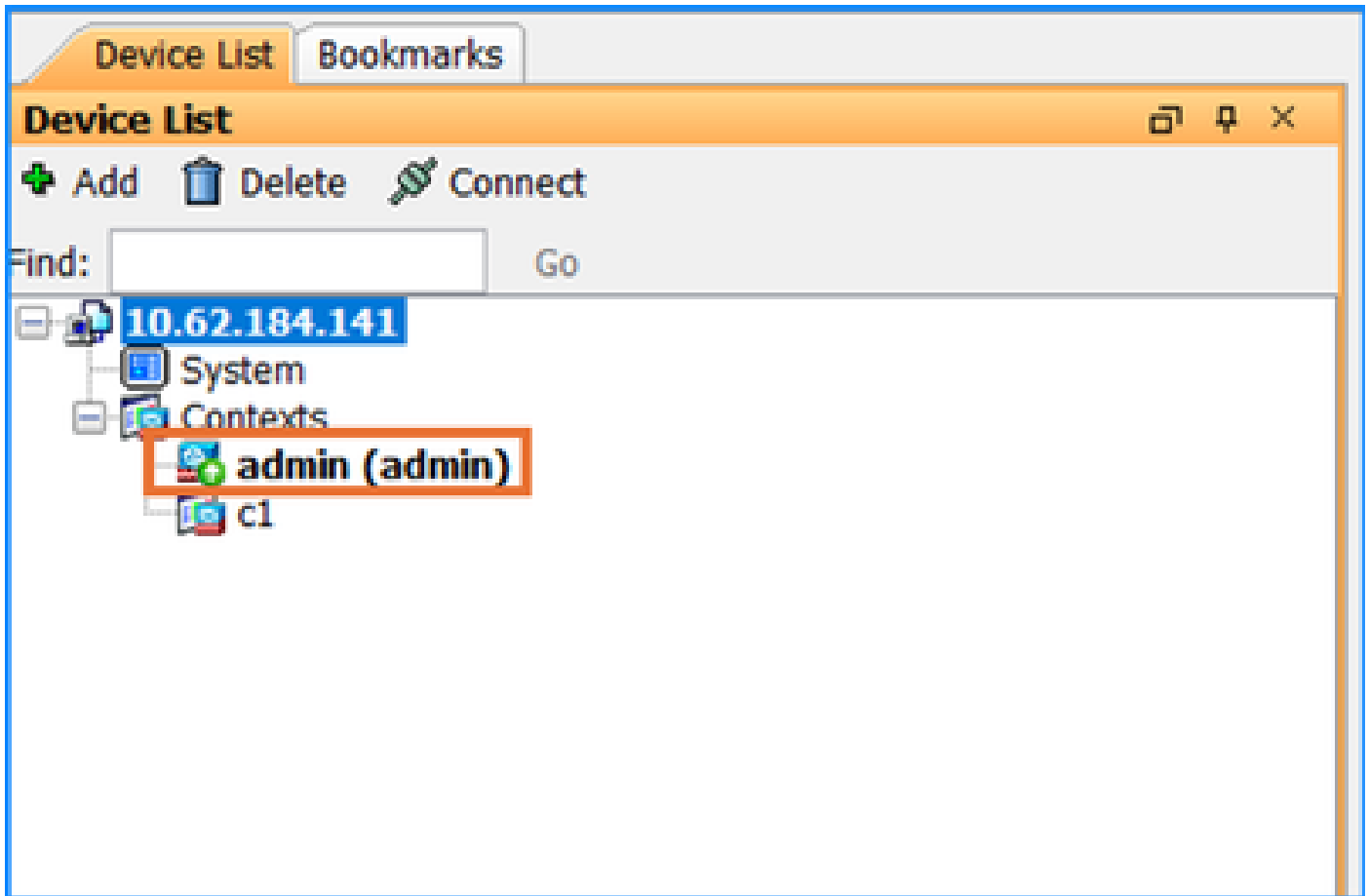
问题6.在多情景模式下无法检查ASA/ASDM更新

在多情景模式下，Tools > Check for ASA/ASDM Updates选项将灰显：

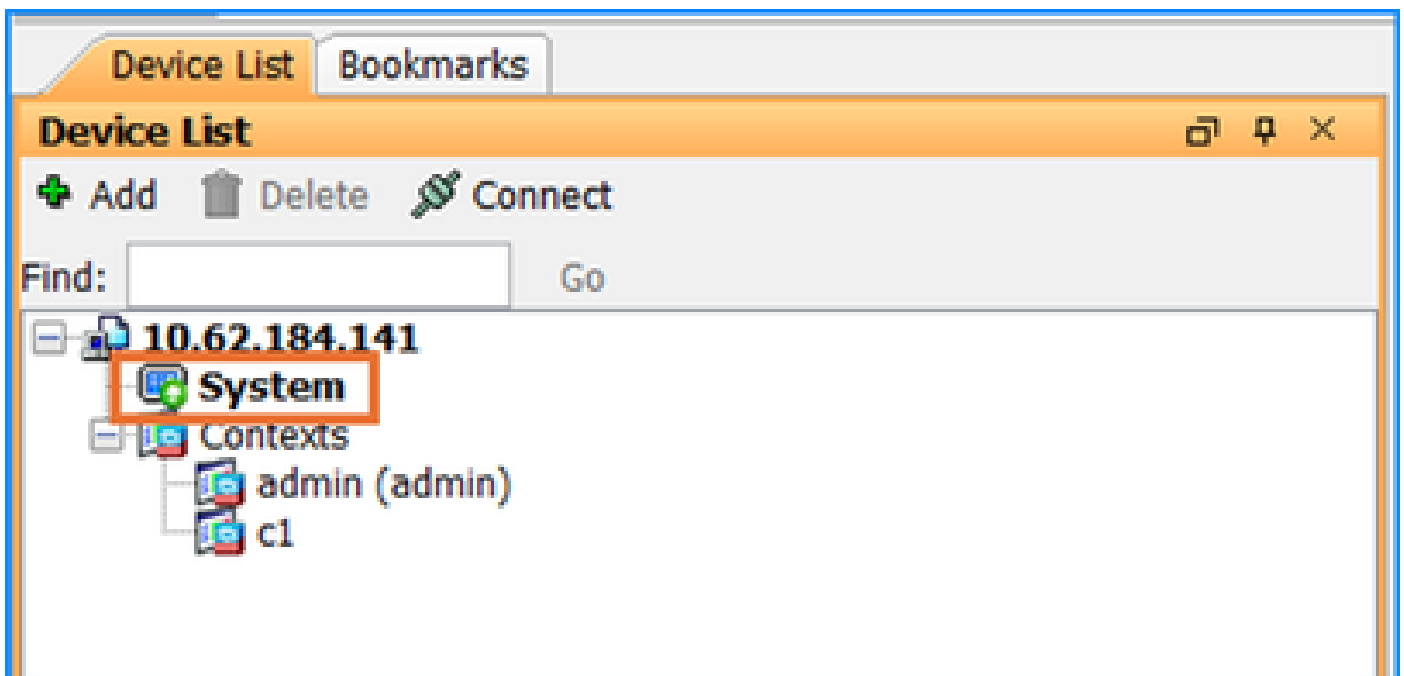


故障排除 — 建议的操作

通常，此选项呈灰色显示，因为在Device List选项卡中，当前选择上下文是admin上下文：



在这种情况下，请确保通过双击System图标切换到系统情景：



问题7.“尚未接受或拒绝思科通用条款表以继续下载。” 错误消息

“思科通用条款表格未被接受或拒绝，无法继续下载。” 当用户尝试通过Tools > Check for ASA/ASDM Updates菜单更新ASA/ASDM映像时，会显示错误消息。

故障排除 — 建议的操作

如果用户不接受最终[用户许可协议\(EULA\)](#),则会显示此错误消息。要继续,请确保接受EULA。

参考

- [最终用户许可协议\(EULA\)](#)

问题 8. 无法下载特定硬件的软件

“软件下载”(Software Download)页面不显示特定硬件的某些ASA/ASDM软件版本。

故障排除 — 建议的操作

特定硬件的软件可用性主要取决于兼容性和寿命终止(EoL)里程碑。如果产品不兼容、EoL产品或延迟发布,则通常不能下载软件版本。

确保完成以下步骤以验证兼容性和受支持的版本:

1. 检查软件和硬件版本之间的兼容性。请参阅[Cisco安全防火墙ASA兼容性](#)。
2. 检查软件维护版本终止日期和寿命终止通知和[销售终止通知中的最后支持日期](#)
 - 软件维护版本结束日期 — 思科工程部门可以发布任何最终软件维护版本或漏洞修复的最后日期。在此日期之后,思科工程部门将不再开发、维修、维护或测试产品软件。
 - 最后支持日期 — 根据有效服务合同或保修条款和条件获得产品适用服务和支持的最后日期。在此日期之后,该产品的所有支持服务将不可用,并且该产品将作废。

End-of-life milestones

Table 1. End-of-life milestones and dates for the Cisco Firepower Threat Defense (FTD) 7.1.(x), Firepower Management Center (FMC) 7.1.(x), Adaptive Security Appliance(ASA) 9.17.(x) and Firepower eXtensible Operating System (FXOS) 2.11.(x)

Milestone	Definition	Date
End-of-Life Announcement Date	The date the document that announces the end-of-sale and end-of-life of a product is distributed to the general public.	June 23, 2023
End-of-Sale Date: App SW	The last date to order the product through Cisco point-of-sale mechanisms. The product is no longer for sale after this date.	December 22, 2023
Last Ship Date: App SW	The last-possible ship date that can be requested of Cisco and/or its contract manufacturers. Actual ship date is dependent on lead time.	March 21, 2024
End of SW Maintenance Releases Date: App SW	The last date that Cisco Engineering may release any final software maintenance releases or bug fixes. After this date, Cisco Engineering will no longer develop, repair, maintain, or test the product software.	December 21, 2024
End of New Service Attachment Date: App SW	For equipment and software that is not covered by a service-and-support contract, this is the last date to order a new service-and-support contract or add the equipment and/or software to an existing service-and-support contract.	December 21, 2024
End of Service Contract Renewal Date: App SW	The last date to extend or renew a service contract for the product.	December 21, 2025
Last Date of Support: App SW	The last date to receive applicable service and support for the product as entitled by active service contracts or by warranty terms and conditions. After this date, all support services for the product are unavailable, and the product becomes obsolete.	December 31, 2025

HW = Hardware OS SW = Operating System Software App. SW = Application Software

3. 查看 [Cisco Secure Firewall ASA Release Notes](#) 和 [Cisco Secure Firewall ASDM Release Notes](#) , 了解延迟或删除版本。

参考

- [思科安全防火墙ASA兼容性](#)
- [生命周期终止和销售终止通知](#)

- [思科安全防火墙ASA版本说明](#)
- [思科安全防火墙ASDM版本说明](#)

问题9. “Error occurred in perform File Transfer HTTP Response code -1 (执行文件传输HTTP响应代码-1时出错)”错误消息

当用户使用ASDM Tools > File Management选项将文件上传到防火墙时，会显示“Error occurred in perform File Transfer HTTP Response code -1”错误消息。

故障排除 — 建议的操作

请参阅软件Cisco Bug ID [CSCvf85831](#) “ASDM error "Error occurred in perform File Transfer HTTP Response code -1" during image upload”。

ASDM兼容性问题

本节介绍最常见的ASDM兼容性问题。

通常，ASDM必须与以下组件兼容：

- ASA
- Java
- 操作系统 (OS)
- 浏览器
- SFR模块 (如果使用)

因此，在安装或升级ASDM之前，强烈建议始终首先检查下表：

Release Notes for Cisco Secure Firewall ASDM, 7.22(x)

This document contains release information for ASDM version 7.22(x) for the Secure Firewall ASA.

Important Notes

- **No support in ASA 9.22(1) and later for the Firepower 2100–ASA 9.20(x)** is the last supported version.
- **Smart licensing default transport changed in 9.22**—In 9.22, the smart licensing default transport changed from Smart Call Home to Smart Transport. You can configure the ASA to use Smart Call Home if necessary using the `transport type callhome` command. When you upgrade to 9.22, the transport is automatically changed Smart Transport. If you downgrade, the transport is set back to Smart Call Home, and if you want to use Smart Transport, you need to specify `transport type smart`.

System Requirements

ASDM requires a computer with a CPU with at least 4 cores. Fewer cores can result in high memory usage.

ASDM Java Requirements

You can install ASDM using Oracle JRE 8.0 (`asdm-version.bin`) or OpenJRE 1.8.x (`asdm-openjre-version.bin`).

Table 1. ASDM Operating System and Browser Requirements

Operating System	Browser			Oracle JRE	OpenJRE
	Firefox	Safari	Chrome		
Microsoft Windows (English and Japanese): <ul style="list-style-type: none"> • 11 • 10 Note See Windows 10 in <i>ASDM Compatibility Notes</i> if you have problems with the ASDM shortcut. <ul style="list-style-type: none"> • 8 • 7 • Server 2016 and Server 2019 • Server 2012 R2 • Server 2012 • Server 2008 	Yes	No support	Yes	8.0 version 8u261 or later	1.8 Note No support for Windows 7 or 10 32-bit
Apple OS X 10.4 and later	Yes	Yes	Yes (64-bit version only)	8.0 version 8u261 or later	1.8

然后“ASA和ASDM每个型号的兼容性”表，例如：

Table 2. ASA and ASDM Compatibility: 9.20 and 9.19

ASA	ASDM	ASA Model								
		ASA Virtual	Firepower 1010	Firepower 1010E	Firepower 2110 2120 2130 2140	Secure Firewall 3105 3110 3120 3130 3140	Firepower 4112 4115 4125 4145	Secure Firewall 4215 Secure Firewall 4225 Secure Firewall 4245	Firepower 9300	ISA 3000
9.20(3)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(2)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(1)	7.20(1)	–	–	–	–	–	–	YES	–	–
9.19(1)	7.19(1)	YES	YES	–	YES	YES	YES	–	YES	YES

This is the minimum ASDM version that can support this ASA version

注意：

新的ASA版本需要协调的ASDM版本或更高版本；不能将旧版本的ASDM与新版本的ASA一起使用。

示例 1

不能将ASDM 7.17与ASA 9.18一起使用。对于ASA中继，您可以继续使用当前ASDM版本，除非另有说明。例如，您可以将ASA 9.22(1.2)与ASDM 7.22(1)配合使用。

示例 2

您有ASAS 9.8(4)32。您可以使用ASDM 7.19(1)对其进行管理，因为ASDM向后兼容，除非ASDM版本说明中另有说明。

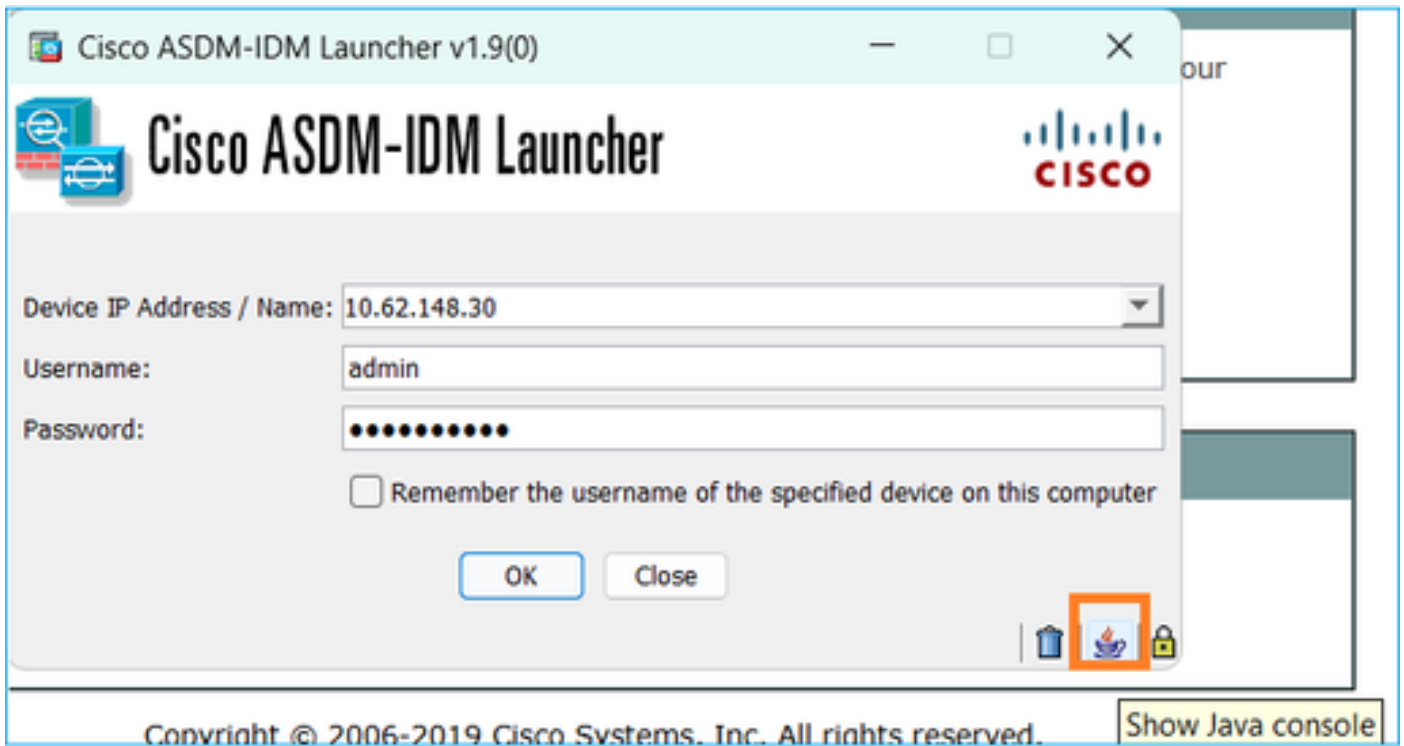
参考

- https://www.cisco.com/c/en/us/td/docs/security/asdm/7_22/release/notes/rn722.html#id_25469
- https://www.cisco.com/c/en/us/td/docs/security/asa/compatibility/asamatrix.html#id_65776

问题1. Java版本不兼容

故障排除 — 建议的步骤

检查Java控制台日志：



然后检查Java和ASA兼容性指南：

- https://www.cisco.com/c/en/us/td/docs/security/asdm/7_22/release/notes/rn722.html#id_25469
- https://www.cisco.com/c/en/us/td/docs/security/asa/compatibility/asamatrix.html#id_65776

问题2. ASA和ASDM版本不兼容

如果您遇到不兼容的ASA和ASDM版本，则可能会失去对ASDM UI的访问权限。

故障排除 — 建议的步骤

您需要从设备的CLI安装ASDM版本，通过TFTP将映像复制到ASA的闪存中，然后按照以下指南中的说明使用命令“asdm image”设置ASDM映像：

<https://www.cisco.com/c/en/us/td/docs/security/asa/asa-cli-reference/A-H/asa-command-ref-A-H/ar-az-commands.html#wp3551901007>

示例

```
<#root>
```

```
asa#
```

```
copy tftp flash
```

```
Address or name of remote host []? 10.62.146.125
```

```
Source filename []? asdm-7221.bin
```

```
Destination filename [asdm-7221.bin]?
```

```
Verifying file disk0:/asdm-7221.bin...
```

```
Writing file disk0:/asdm-7221.bin...
```

```
INFO: No digital signature found
```

```
126659176 bytes copied in 70.590 secs (1809416 bytes/sec)
```

```
<#root>
```

```
asa#
```

```
config terminal
```

```
asa(config)#
```

```
asdm image disk0:/asdm-7151-150.bin
```

```
asa(config)#
```

```
copy run start
```

```
Source filename [running-config]?
```

```
Cryptochecksum: afae0454 bf24b2ac 1126e026 b1a26a2c
```

```
4303 bytes copied in 0.210 secs
```

问题3. ASDM和OpenJDK支持

Cisco ASDM映像正式不支持OpenJDK。因此，有2个可用选项：

- Oracle JRE:包含用于在主机PC上启动ASDM的Java Web Start运行时。要使用此方法，需要在本地PC上安装64位Oracle JRE。您可以从Java的官方网站下载此文件。
- OpenJRE:开放的JRE映像与Oracle映像相同，但不同之处在于，您不需要在本地PC上安装64位Oracle JRE，因为映像本身具有Java Web Start功能来启动ASDM。这就是为什么OpenJRE映像的大小大于Oracle JRE的原因。请注意，OpenJRE将使用较旧的Java版本进行编译，因为它们使用的是在ASDM openJRE开发周期开始时提供的最新稳定版本。

Oracle JRE与OpenJRE

	Oracle JRE	OpenJRE
要求在终端主机上安装Java	Yes	否 (它集成了自己的Java)
专有	Yes	否 (开源)
图像大小	中	规模更大，因为它还集成了Java
镜像名称	asdm-xxxx.bin	asdm-openjre-xxxx.bin

Software Download

Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / ASA 5500-X with FirePOWER Services / ASA 5508-X with FirePOWER Services / Adaptive Security Appliance (ASA) Device Manager- 7.22.1

Search...

Expand All Collapse All

Latest Release

7.22.1

7.20.2

7.19.1.95

7.18.1.161

All Release

7

ASA 5508-X with FirePOWER Services

Release 7.22.1

My Notifications

Related Links and Documentation

Release Notes for 7.22.1

File Information	Release Date	Size
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 requires Oracle JRE. asdm-7221.bin Advisories	16-Sep-2024	120.79 MB
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 integrated with OpenJRE. asdm-openjre-7221.bin Advisories	16-Sep-2024	195.09 MB

ASDM Oracle JRE-based image. It requires Oracle JRE to be installed.

ASDM OpenJRE-based image. It does not require Java to be installed.

提示：如果您决定更改ASDM启动器版本，请先卸载现有的ASDM启动器，然后通过通过HTTPS连接到ASA来安装新的。

参考

- https://www.cisco.com/c/en/us/td/docs/security/asdm/7_22/release/notes/rn722.html#id_25472
- OpenJDK:完整的开发和运行环境、开源、GPL许可证。
- Oracle JRE:仅运行时环境、专有许可证需要商业许可证才能用于生产。
- OpenJRE:仅限运行时环境、开源、GPL许可证。
- <https://www.oracle.com/java/technologies/javase/jre8-readme.html>

问题4. ASDM和Java Azul Zulu兼容性

基于Oracle JRE的ASDM映像不支持Java Azul Zulu。另一方面，基于ASDM OpenJRE的映像会与祖鲁集成。有关可用选项，请查看“问题3”建议。

问题5.警告：在文件disk0:/asdm-xxx.bin中找不到签名

示例：

```
<#root>
```

```
asa#
```

```
copy tftp flash:
```

```
Address or name of remote host [192.0.2.5]?
```

```
Source filename []? asdm-7171.bin
```

```
Destination filename [asdm-7171.bin]?
```

```
Accessing ftp://192.0.2.5/asdm-7171.bin...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
Verifying file disk0:/asdm-7171.bin...
```

```
%WARNING: Signature not found in file disk0:/asdm-7171.bin.
```

故障排除 — 建议的步骤

这通常是ASA与ASDM的兼容性问题。检查ASDM兼容性指南，确保ASDM与ASA映像兼容。您可以在以下网址找到ASA和ASDM兼容性矩阵：

https://www.cisco.com/c/en/us/td/docs/security/asa/compatibility/asamatrx.html#id_65776

问题6。“%错误：ASDM包未进行数字签名。拒绝配置。”

当使用设置新的ASDM映像时，会显示此错误消息。 `asdm image <image path>` 命令。

故障排除 — 建议的操作

1. ASA验证ASDM映像是否为思科数字签名映像。如果您尝试使用此修复程序运行ASA版本的旧版ASDM映像，ASDM将被阻止，并显示消息“%ERROR:签名对文件disk0:/<filename>”无效，将在ASA CLI中显示。ASDM版本7.18(1.152)及更高版本向后兼容所有ASA版本，即使没有此修复程序也如此。请参阅中的重要说明部分 [思科ASDM 7.17\(x\)版本说明](#)。
2. 更新主机PC上的Java版本。
3. 对于在安全防火墙3100上运行的ASA，请检查软件Cisco Bug ID [CSCwc12322](#) "FPR3100平台上的数字签名ASDM映像验证错误"

<https://bst.cloudapps.cisco.com/bugsearch/bug/CSCwc12322>

 注意：此缺陷在最新的ASDM软件版本中已修复。有关详细信息，请查看缺陷详细信息。

问题7。“%ERROR:签名对文件disk0:/<filename>”无效

文件复制期间会显示错误，例如：

```
<#root>
asa#
copy tftp://cisco:cisco@192.0.2.1/cisco-asa-fp2k.9.20.3.7.SPA

Address or name of remote host [192.0.2.1]?
Source filename [cisco-asa-fp2k.9.20.3.7.SPA]?
Destination filename [cisco-asa-fp2k.9.20.3.7.SPA]?

Accessing tftp://cisco:<password>@192.0.2.1/cisco-asa-fp2k.9.20.3.7.SPA...
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Verifying file disk0:/cisco-asa-fp2k.9.20.3.7.SPA...

%ERROR: Signature not valid for file disk0:/cisco-asa-fp2k.9.20.3.7.SPA.
```

故障排除 — 建议的操作

ASA 9.14(4.14)及更高版本需要ASDM 7.18(1.152)或更高版本。ASA现在验证ASDM映像是否为思科数字签名的映像。如果您尝试使用具有此修复程序的ASA版本运行早于7.18(1.152)的ASDM映像，则会阻止ASDM并显示消息“%ERROR:签名对文件disk0:/<filename>”无效，将在ASA CLI中显示。

此更改是由Cisco ASDM和ASA软件客户端任意代码执行漏洞(CVE ID CVE-2022-20829)引起的

- <https://bst.cloudapps.cisco.com/bugsearch/bug/CSCwb05291>
- <https://bst.cloudapps.cisco.com/bugsearch/bug/CSCwb05264>

如果设备在平台模式下运行，请按照本文档中的说明上传映像：

https://www.cisco.com/c/en/us/td/docs/security/asa/upgrade/asa-upgrade/asa-appliance-asav.html#topic_zp4_dzj_cjb

参考

- ASDM版本说明：
https://www.cisco.com/c/en/us/td/docs/security/asdm/7_14/release/notes/rn714.html#reference_yw3
- ASA升级指南：
https://www.cisco.com/c/en/us/td/docs/security/asa/upgrade/asa-upgrade/asa-appliance-asav.html#task_E9EE51964590499999B1D976F66E2771

问题8.安全防火墙状态(Hostscan)兼容性

Hostscan版本取决于AnyConnect版本，而不是ASA版本。您可以在此处找到两个版本：软件下载 — Cisco Systems:

<https://software.cisco.com/download/home/283000185>

问题9.受支持的最新版本

故障排除 — 建议的操作

如果您希望了解防火墙支持的最新ASDM版本，需要检查的文档主要有两种：

- ASDM版本说明：

https://www.cisco.com/c/en/us/td/docs/security/asdm/7_14/release/notes/rn714.html#reference_yw3

具体来说，ASA型号表

Table 2. ASA and ASDM Compatibility: 9.20 and 9.19

ASA	ASDM	ASA Model								
		ASA Virtual	Firepower 1010	Firepower 1010E	Firepower 2110 2120 2130 2140	Secure Firewall 3105 3110 3120 3130 3140	Firepower 4112 4115 4125 4145	Secure Firewall 4215 Secure Firewall 4225 Secure Firewall 4245	Firepower 9300	ISA 3000
9.20(3)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(2)	7.20(2)	YES	YES	YES	YES	YES	YES	YES	YES	YES
9.20(1)	7.20(1)	-	-	-	-	-	-	YES	-	-
9.19(1)	7.19(1)	YES	YES	-	YES	YES	YES	-	YES	YES

This is the minimum ASDM version that can support this ASA version

Ensure your HW model is listed here

第二个文档是SW下载页面：

<https://software.cisco.com/download/home/286291275>

Select a Product

Product Name e.g. 2911

Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / Firepower 1000 Series

- IOS and NX-OS Software
- Optical Networking
- Routers
- Security**
- Servers - Unified Computing
- Storage Networking
- Switches

- ASA 5500-X with FirePOWER Services
- Firepower 1000 Series**
- Firepower 2100 Series
- Firepower 4100 Series
- Firepower 9300 Series
- Secure Firewall 1200 Series
- Secure Firewall 3100 Series

- Firepower 1010 Security Appliance
- Firepower 1120 Security Appliance
- Firepower 1140 Security Appliance
- Firepower 1150 Security Appliance

您可以找到硬件支持的每个软件系列的最新ASDM版本，例如：

Software Download

Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / Firepower 1000 Series / Firepower 1140 Security Appliance / Adaptive Security Appliance (ASA) Device Manager- 7.22.1

[Expand All](#) [Collapse All](#)

Latest Release

- 7.22.1
- 7.20.2
- 7.19.1.95
- 7.18.1.161

All Release

- 7
- 22
- 20

Firepower 1140 Security Appliance

Release 7.22.1

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Related Links and Documentation
[Release Notes for 7.22.1](#)

File Information	Release Date	Size	
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 requires Oracle JRE. asdm-7221.bin Advisories	16-Sep-2024	120.79 MB	↓ 🛒
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 integrated with OpenJRE. asdm-openjre-7221.bin Advisories	16-Sep-2024	195.09 MB	↓ 🛒

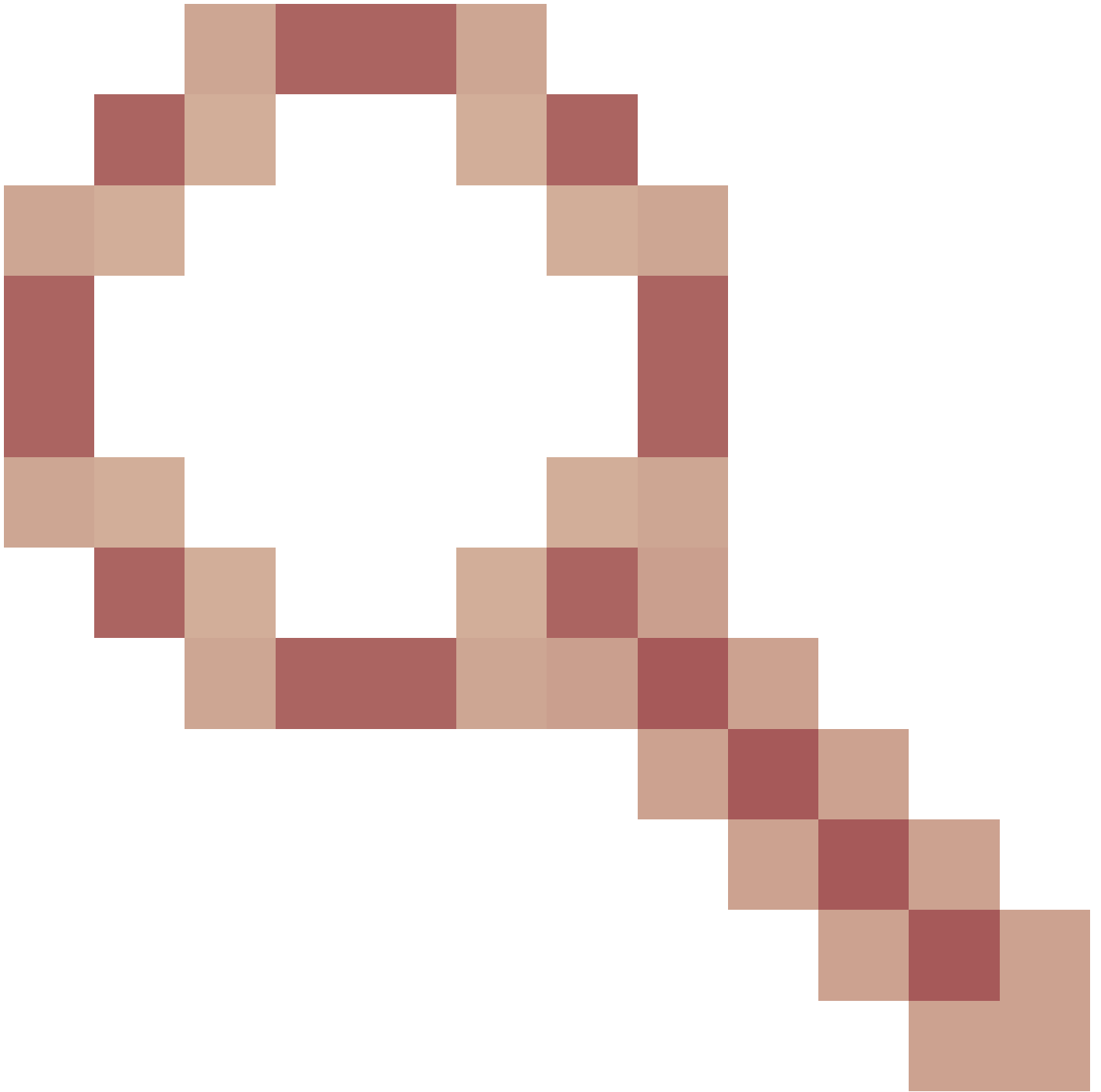
问题10. Linux上的ASDM支持

故障排除 — 建议的操作

Linux未正式支持。

相关增强：

Cisco Bug ID [CSCwk67345](#)



增强版：在支持的操作系统列表中包括Linux

<https://bst.cloudapps.cisco.com/bugsearch/bug/CSCwk67345>

问题11. ASDM支持终止

故障排除 — 建议的操作

请查阅ASA/ASDM生命周期终止和销售终止通知：

<https://www.cisco.com/c/en/us/products/security/asa-firepower-services/eos-eol-notice-listing.html>

ASDM许可证问题

本节介绍最常见的ASDM许可证相关问题。

智能许可模式用于：

- Firepower 4100/9300机箱注册：ASA许可证管理
- ASAv、Firepower 1000、Firepower 2100、Firepower 9300和Firepower 4100:许可证：智能软件许可（ASAv、Firepower上的ASA）

所有其他型号均使用产品授权密钥(PAK)许可

参考

- 思科安全防火墙ASA系列功能许可证 — 型号指南

<https://www.cisco.com/c/en/us/td/docs/security/asa/roadmap/licenseroadmap.html>

问题1.缺少3DES/AES智能许可证

ASDM需要ASA上的强加密许可证(3DES/AES)，除非您使用管理接口访问它。要通过数据接口启用ASDM访问，您需要获取3DES/AES许可证。

向思科请求3DES/AES许可证的步骤：

1. 转至 <https://www.cisco.com/go/license>
2. 单击Continue to Product License Registration。
3. 在许可门户中，点击文本字段旁边的获取其他许可证。
4. 从下拉列表中选择IPS、Crypto、Other...。
5. 在Search by Keyword字段中键入ASA。
6. 在产品列表中选择Cisco ASA 3DES/AES许可证，然后单击下一步。
7. 输入ASA的序列号，然后按照提示为ASA请求3DES/AES许可证。

故障排除 — 建议的操作

要启用许可证并注册到思科智能许可门户，请确保以下项目已就绪：

- ASA时钟显示正确的时间。建议使用NTP服务器。
- 路由至思科智能许可门户。
- 从防火墙到许可门户的HTTPS流量不会被阻止。防火墙上的捕获收集可以确认这一点。
- 如果需要使用HTTP代理服务器，请包含所需的命令，例如：

```
<#root>
```

```
ciscoasa(config)#
```

```
call-home
```

```
ciscoasa(cfg-call-home)#
http-proxy 10.1.1.1 port 443
```

问题2. Oracle Java JRE许可要求

故障排除 — 建议的操作

ASDM .bin映像文件有两种形式：

- Oracle JRE:包含用于在主机PC上启动ASDM的Java Web Start运行时。要使用此方法，需要在本地PC上安装64位Oracle JRE。您可以从Java的官方网站下载此文件。
- OpenJRE:开放的JRE映像与Oracle映像相同，但不同之处在于，您不需要在本地PC上安装64位Oracle JRE，因为映像本身具有Java Web Start功能来启动ASDM。

The screenshot shows the Cisco Software Download page for ASA 5508-X with FirePOWER Services, release 7.22.1. The page is titled "Software Download" and includes a search bar, expand/collapse buttons, and a list of releases. The current release, 7.22.1, is selected. Below the release information, there is a table with columns for File Information, Release Date, and Size. Two rows are visible, each with a callout box pointing to the file name:

File Information	Release Date	Size
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 requires Oracle JRE. asdm-7221.bin Advisories ↗	16-Sep-2024	120.79 MB
Cisco Adaptive Security Device Manager for ASA 9.8-9.22 integrated with OpenJRE. asdm-openjre-7221.bin Advisories ↗	16-Sep-2024	195.09 MB

Callout for the first row: "ASDM Oracle JRE-based image. It requires Oracle JRE to be installed."

Callout for the second row: "ASDM OpenJRE-based image. It does not require Java to be installed."

如果您决定使用基于Oracle的ASDM映像，当您将其用于非个人用途时，需要具有Java许可证。根据Oracle Java SE许可常见问题：


个人使用是指在台式机或笔记本电脑上使用Java来玩游戏或运行其他个人应用程序。如果您在台式机或笔记本电脑上使用Java作为任何业务操作的一部分，则这不是个人使用。例如，您可以使用Java生产力应用程序来完成自己的家庭作业或个人税费，但不能使用它来执行企业会计工作。

如果您不想应用任何Java许可证，可以使用基于OpenJRE的ASDM映像。

参考

- <https://www.oracle.com/java/technologies/javase/jdk-faqs.html>
- ASDM 7.22的ASDM Java要求
: https://www.cisco.com/c/en/us/td/docs/security/asdm/7_22/release/notes/rn722.html#id_25472

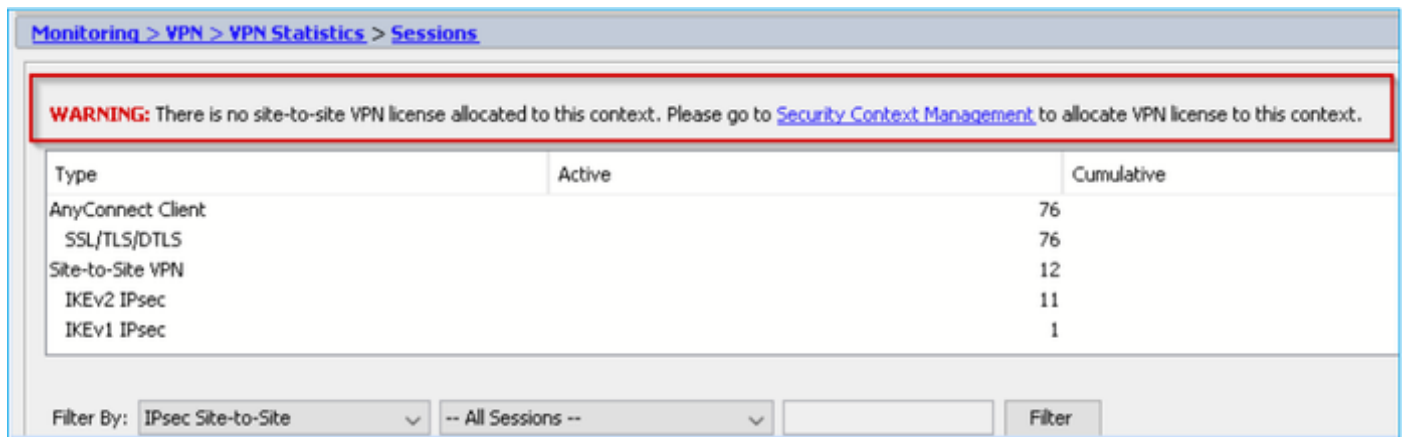
- ASDM 7.22的ASDM兼容性说明
: https://www.cisco.com/c/en/us/td/docs/security/asdm/7_22/release/notes/rn722.html#id_25476

 注意：查看您使用的ASDM版本的版本说明。

问题3.有关多情景模式中的站点到站点VPN许可证的ASDM警告

ASDM显示以下内容：

警告：没有为此情景分配站点到站点VPN许可证。请转至安全情景管理以将VPN许可证分配到此情景。



The screenshot shows the ASDM interface for monitoring VPN sessions. A red-bordered warning box at the top states: "WARNING: There is no site-to-site VPN license allocated to this context. Please go to [Security Context Management](#) to allocate VPN license to this context." Below the warning is a table with the following data:

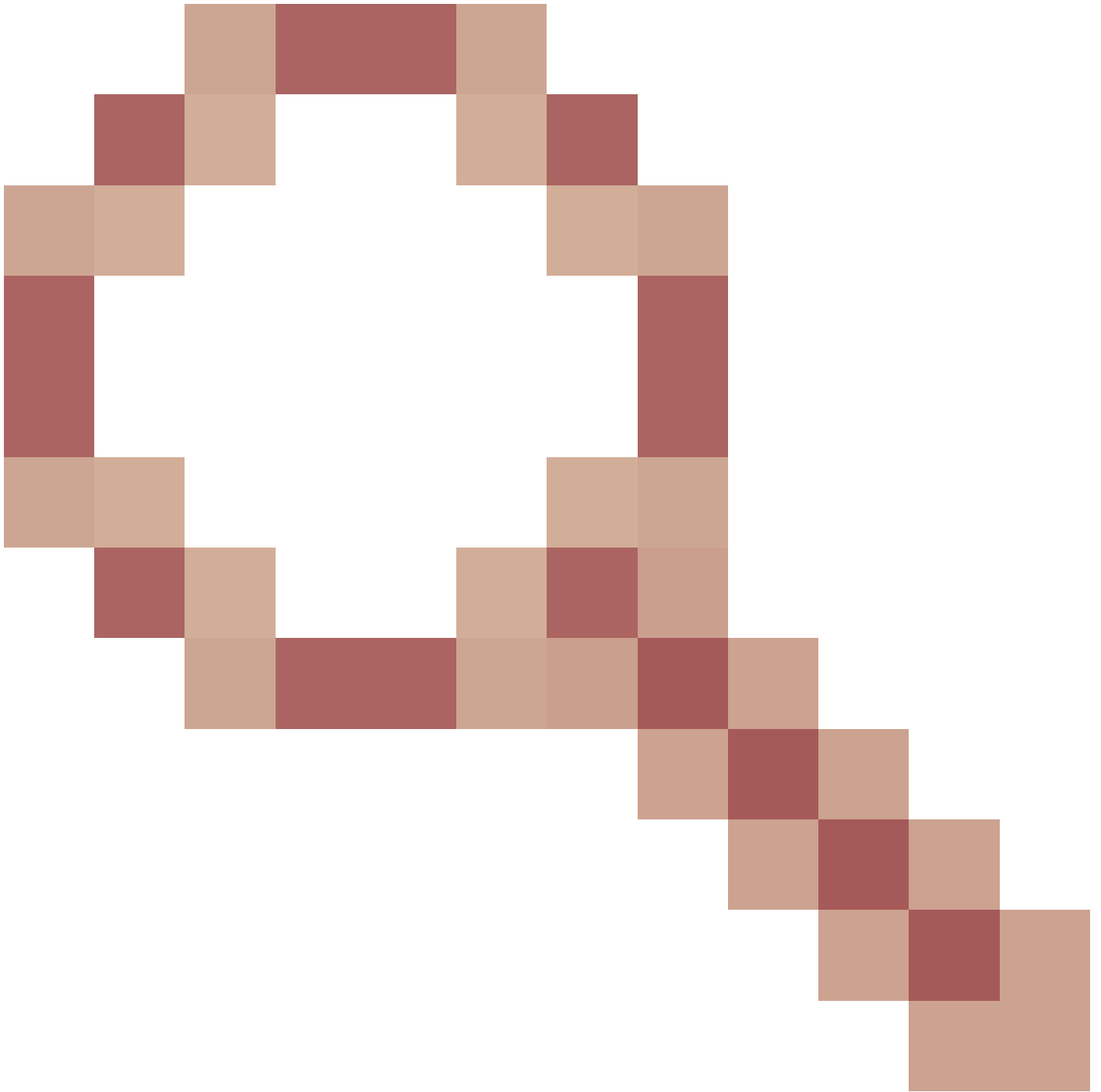
Type	Active	Cumulative
AnyConnect Client		76
SSL/TLS/DTLS		76
Site-to-Site VPN		12
IKEv2 IPsec		11
IKEv1 IPsec		1

At the bottom of the screenshot, there are filter controls: "Filter By: IPsec Site-to-Site" (dropdown), "-- All Sessions --" (dropdown), an empty search box, and a "Filter" button.

故障排除 — 建议的操作

这是一个表面软件缺陷，跟踪者为：

Cisco Bug ID [CSCvj66962](#)



ASDM 7.9(2)ASA 9.6(4)8多情景L2L持续错误

<https://bst.cloudapps.cisco.com/bugsearch/bug/CSCvj66962>

您可以订用缺陷，因此您将收到有关缺陷更新的通知。

参考

- [ASDM配置指南](#)
- [每个型号的Cisco ASA和ASDM兼容性](#)

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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