

# 在FMC上配置高可用性

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## 简介

本文档介绍防火墙管理中心(FMC)高可用性(HA)的配置示例。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档中的信息基于Secure FMC for VMware v7.2.5。

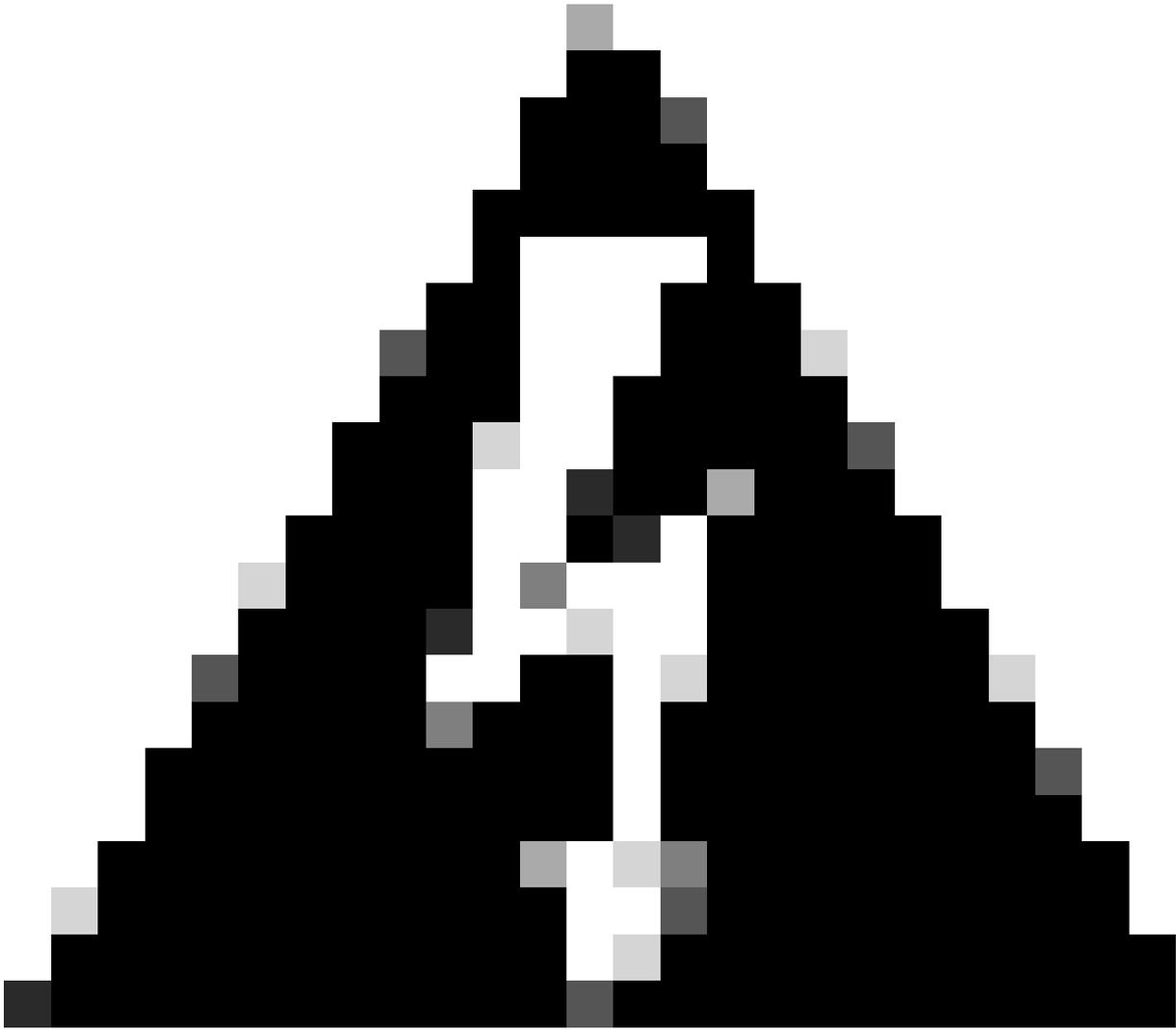
本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

## 背景信息

本文档的具体要求包括:

- 两个FMC对等体必须位于相同的软件版本、入侵规则更新、漏洞数据库和轻量级安全包中
- 两个FMC对等体需要具有相同容量或硬件版本
- 两个FMC都需要单独的许可证

有关全套要求,请访问[管理指南](#)。



警告：如果列出的要求不匹配，则无法配置HA。

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所有硬件设备均支持此过程。

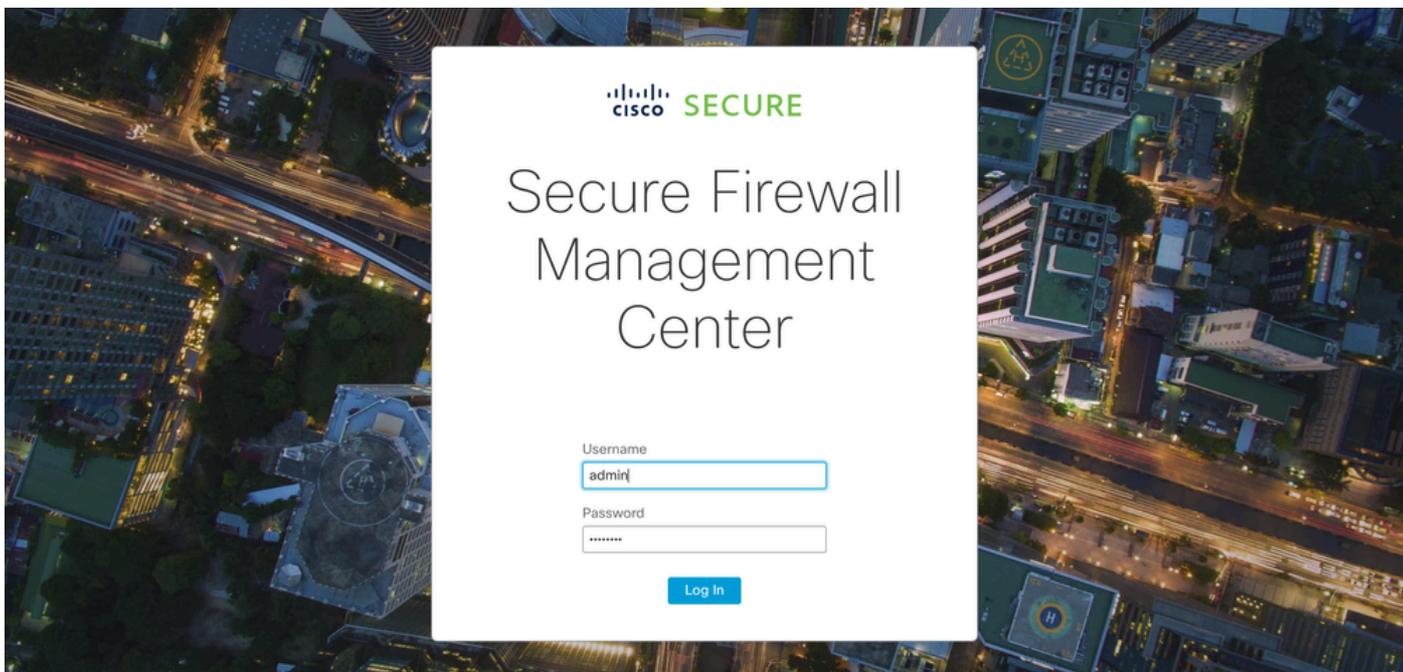
## 开始使用前

- 确保管理员有权访问两个FMC
- 确保管理接口之间的连接
- 请花点时间检查软件版本，并确保完成所有必要的升级

## 配置

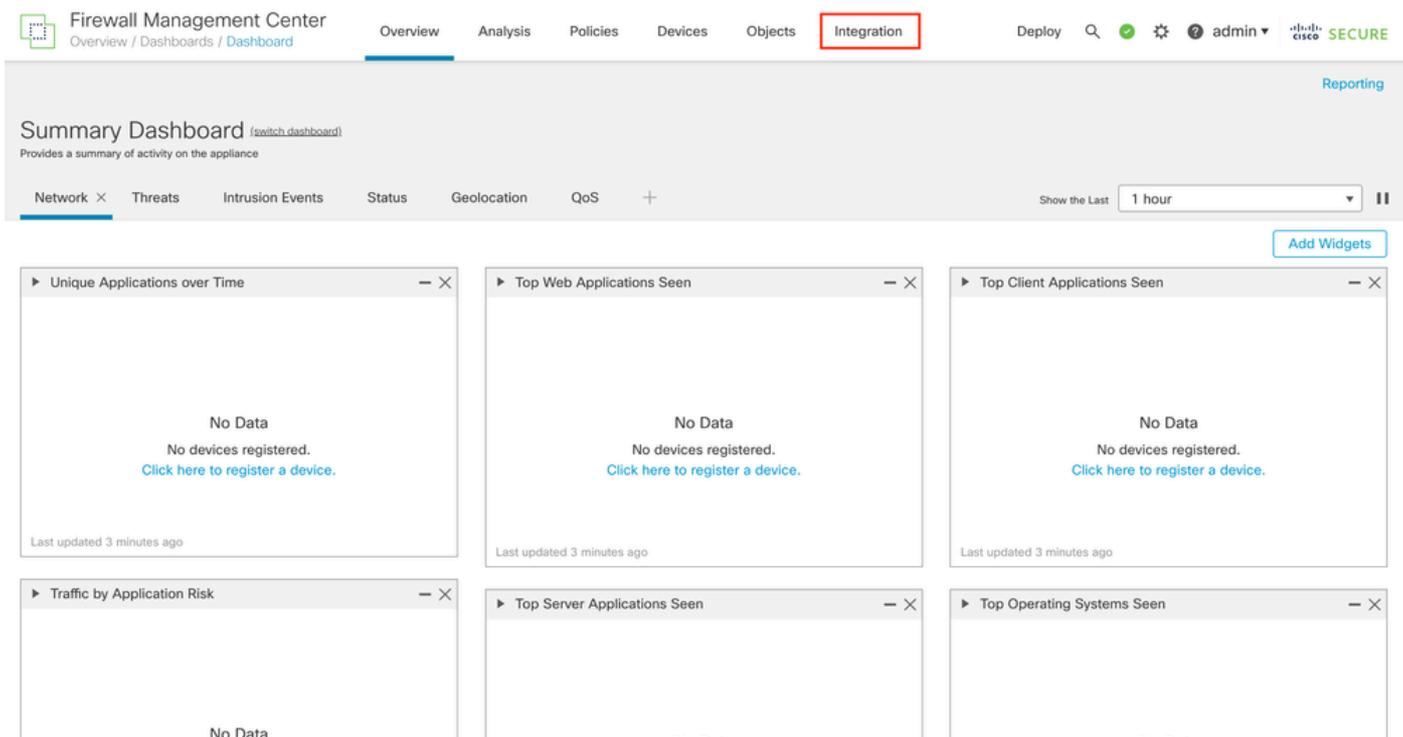
### 配置辅助FMC

步骤1. 登录到将承担辅助/备用角色的FMC设备的图形用户界面(GUI)。



登录到FMC

步骤2.定位至“集成”选项卡。



导航到集成

步骤3.单击Other Integrations。

## SecureX

Security Analytics &amp; Logging

Other Integrations

## AMP

AMP Management

Dynamic Analysis Connections

## Intelligence

Incidents

Sources

Elements

Settings

导航到其他集成

步骤4. 导航到高可用性选项卡。



Firewall Management Center

Integration / Other Integrations / Cloud Services

Overview

Analysis

Policies

Devices

Objects

Integration

Cloud Services

Realms

Identity Sources

High Availability

eStreamer

Host Input Client

Smart Software Manager On-Prem

导航至高可用性

步骤5. 单击Secondary。



Firewall Management Center

Integration / Other Integrations / High Availability

Overview

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Deploy

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admin ▾

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Cloud Services

Realms

Identity Sources

High Availability

eStreamer

Host Input Client

Smart Software Manager On-Prem

Peer Manager

Select a role for this Management Center and specify peer details to setup high availability.

Role For This Firewall Management Center:

Standalone (No High Availability)

Primary

Secondary

输入信息并为当前FMC选择所需角色

步骤6. 输入主/主对等体的信息，然后单击Register。

Select a role for this Management Center and specify peer details to setup high availability.

Role For This Firewall Management Center:

- Standalone (No High Availability)
- Primary
- Secondary

Peer Details:

After Firewall Management Center high availability is configured in virtual or cloud environment, each registered Firewall Threat Defense consumes an additional Firepower MCv Device license.

Primary Firewall Management Center Host:

Registration Key\*:

Unique NAT ID:

**Register**

† Either host or NAT ID is required.

注意：请注意注册密钥，因为它将用于活动的FMC。

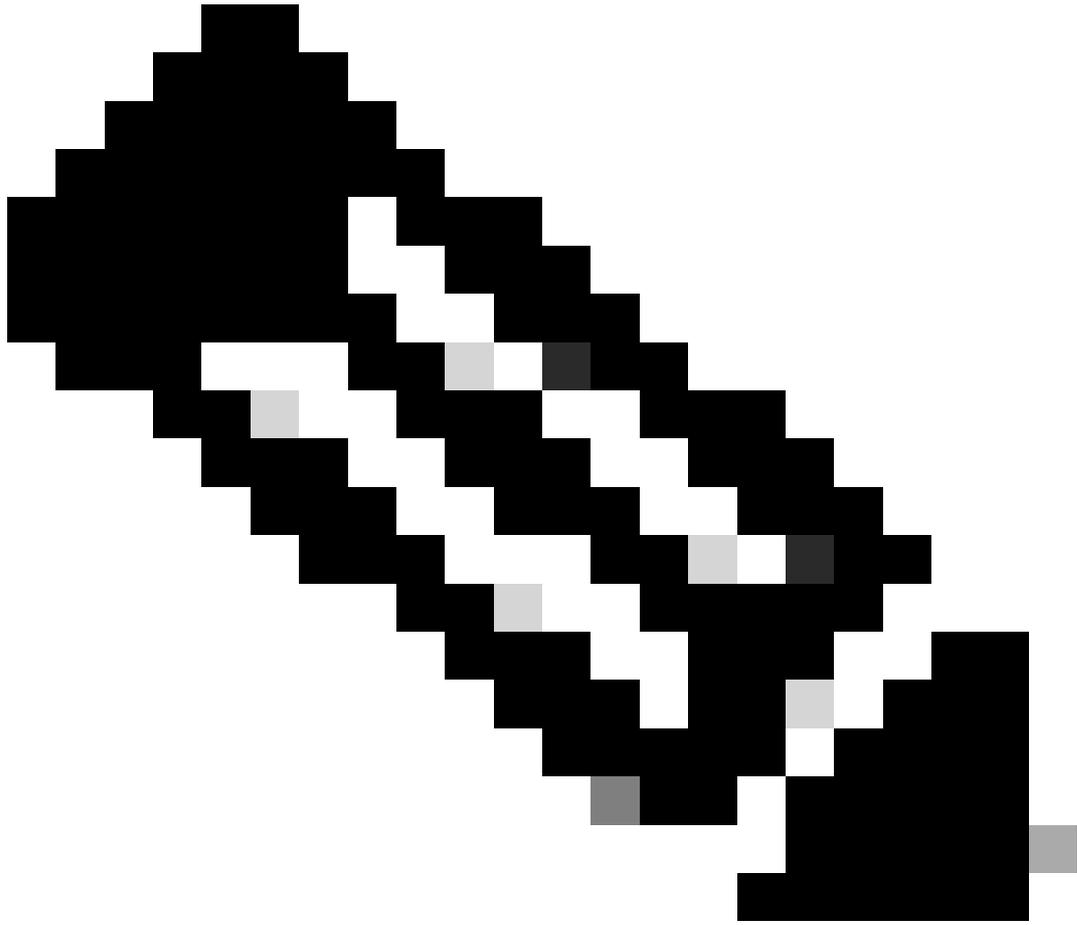
步骤7.此警告要求您确认，单击 Yes.

## Warning

This operation may affect critical processes running in the background. Do you want to continue?

No

Yes



注意：确保在创建HA时没有运行其他任务，GUI将重新启动。

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步骤8.确认要注册主要对等体。

## Warning

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Do you want to register primary peer:  
10.18.19.31?

No

Yes



警告：一旦创建HA，设备/策略/配置的所有信息将从辅助FMC中删除。

步骤9. 检验辅助FMC状态是否为pending。

Firewall Management Center  
Integration / Other Integrations / Peer Manager

Overview Analysis Policies Devices Objects Integration Deploy 🔍 🟢 ⚙️ ⓘ admin ▾ cisco SECURE

Cloud Services Realms Identity Sources High Availability eStreamer Host Input Client Smart Software Manager On-Prem

Host	Last Modified	Status	State	
10.18.19.31	2023-09-28 13:53:56	Pending Registration	<input checked="" type="checkbox"/>	 

## 配置主FMC

在主用/主用FMC上重复步骤1 - 4。

步骤5. 单击Primary。

Select a role for this Management Center and specify peer details to setup high availability.

Role For This Firewall Management Center:

- Standalone (No High Availability)
- Primary
- Secondary

Peer Details:

Configure the secondary Management Center with details of the primary before registration.

After Firewall Management Center high availability is configured in virtual or cloud environment, each registered Firewall Threat Defense consumes an additional Firepower MCv Device license.

Secondary Firewall Management Center Host:

Registration Key\*:

Unique NAT ID:

Register

† Either host or NAT ID is required.

步骤6. 输入有关辅助FMC的信息，然后单击Register。

Select a role for this Management Center and specify peer details to setup high availability.

Role For This Firewall Management Center:

- Standalone (No High Availability)
- Primary
- Secondary

Peer Details:

Configure the secondary Management Center with details of the primary before registration.

After Firewall Management Center high availability is configured in virtual or cloud environment, each registered Firewall Threat Defense consumes an additional Firepower MCv Device license.

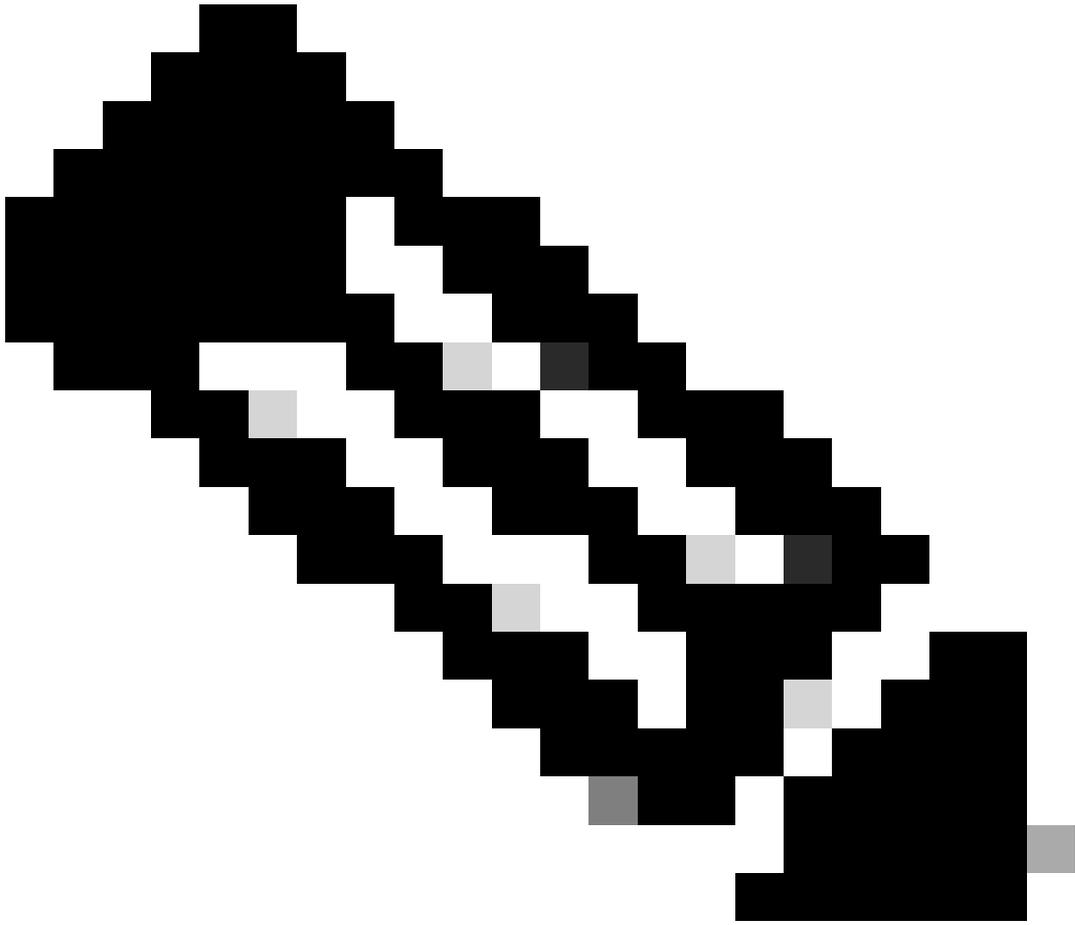
Secondary Firewall Management Center Host:

Registration Key\*:

Unique NAT ID:

Register

† Either host or NAT ID is required.



注意：使用与辅助FMC相同的注册密钥。

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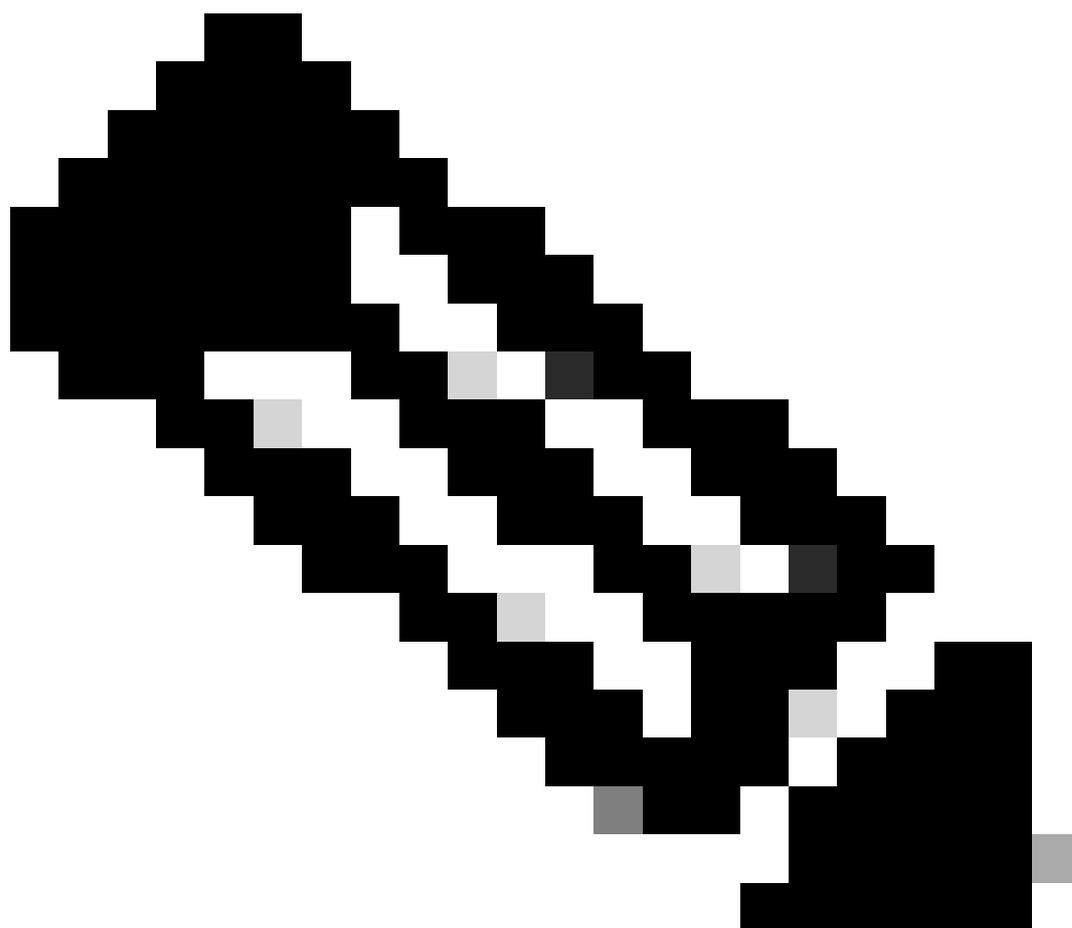
步骤7.此警告要求您确认，单击 Yes.

## Warning

This operation may affect critical processes running in the background. Do you want to continue?

No

Yes



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注意：确保没有其他任务正在运行。

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步骤8.确认要注册辅助FMC。

## Warning

Secondary peer configuration and policies will be removed. After Firewall Management Center high availability is configured in virtual or cloud environment, each registered Firewall Threat Defense consumes an additional Firepower MCV Device license. Do you want to register secondary peer:  
10.18.19.32?

No

Yes

注意：确保辅助FMC上没有重要信息，因为接受此提示会从FMC中删除所有配置。

主设备和辅助设备之间的同步开始；持续时间取决于配置和设备。可以从两个单元监控此过程。

Firewall Management Center  
Integration / Other Integrations / High Availability

Overview Analysis Policies Devices Objects Integration Deploy Search Admin Settings Admin | cisco SECURE

Peer Manager

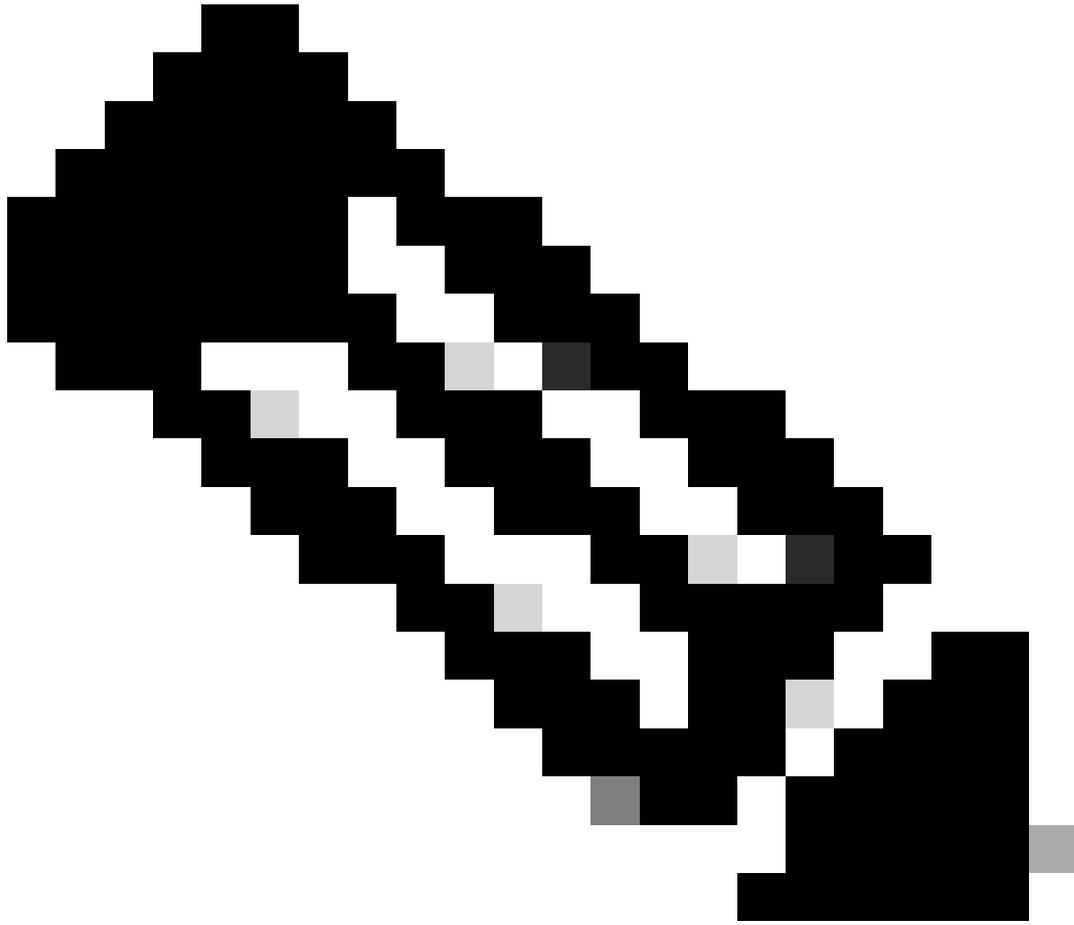
Cloud Services Realms Identity Sources High Availability eStreamer Host Input Client Smart Software Manager On-Prem

Switch Peer Roles Break HA Pause Synchronization

High availability operations are in progress. The status messages and alerts on this page are temporary. Please check after high availability operations are complete. These operations include file copy which may take time to complete. Database files synchronization: 100% of 379MB transferred

Summary	
Status	▲ Temporarily degraded- high availability operations are in progress.
Synchronization	▲ Failed
Active System	10.18.19.31
Standby System	10.18.19.32

System Status		
	Local Active - Primary (10.18.19.31)	Remote Standby - Secondary (10.18.19.32)
Operating System	7.2.5	7.2.5
Software Version	7.2.5-208	7.2.5-208
Model	Secure Firewall Management Center for VMware	Secure Firewall Management Center for VMware



注意：同步进行时，预计状态会变为Failed和Temporary degraded。此状态显示直到进程完成。

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## 确认

同步完成后，预期输出为Status Healthy和Synchronization OK。

Firewall Management Center  
Integration / Other Integrations / High Availability

Overview Analysis Policies Devices Objects Integration Deploy 🔍 ⚙️ 👤 admin | Cisco SECURE

Peer Manager

Cloud Services Realms Identity Sources **High Availability** eStreamer Host Input Client Smart Software Manager On-Prem

Switch Peer Roles Break HA Pause Synchronization

Summary	
Status	🟢 Healthy
Synchronization	🟢 OK
Active System	10.18.19.31
Standby System	10.18.19.32

System Status		
	Local	Remote
	<b>Active - Primary</b> (10.18.19.31)	<b>Standby - Secondary</b> (10.18.19.32)
Operating System	7.2.5	7.2.5
Software Version	7.2.5-208	7.2.5-208
Model	Secure Firewall Management Center for VMware	Secure Firewall Management Center for VMware

主设备和辅助设备保持同步；这是正常现象。

Firewall Management Center  
Integration / Other Integrations / High Availability

Devices Integration 🔍 ⚙️ 👤 admin | Cisco SECURE

Peer Manager

Cloud Services **High Availability** eStreamer Host Input Client

Switch Peer Roles Break HA Pause Synchronization

Summary	
Status	🟢 Synchronization task is in progress
Synchronization	🟢 OK
Active System	10.18.19.31
Standby System	10.18.19.32

System Status		
	Local	Remote
	<b>Standby - Secondary</b> (10.18.19.32)	<b>Active - Primary</b> (10.18.19.31)
Operating System	7.2.5	7.2.5
Software Version	7.2.5-208	7.2.5-208
Model	Secure Firewall Management Center for VMware	Secure Firewall Management Center for VMware

请花点时间检查您的设备在主设备和辅助设备是否都正确显示。

## 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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