配置用于ASA迁移的安全防火墙迁移工具

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简介

本文档介绍将思科自适应安全设备(ASA)迁移到Cisco Firepower的过程。

作者: Cisco TAC工程师Ricardo Vera。

先决条件

要求

思科建议您了解思科防火墙威胁防御(FTD)和自适应安全设备(ASA)。

使用的组件

本文档中的信息基于以下软件和硬件版本:

- •带Firepower迁移工具(FMT)v3.0.1的Windows PC
- 自适应安全设备(ASA)v9.16.1
- •安全防火墙管理中心(FMCv)v7.0.1
- •安全防火墙威胁防御虚拟(FTDv)v7.0.1

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。

本文档的具体要求包括:

• 思科自适应安全设备(ASA)8.4版或更高版本

• 安全防火墙管理中心(FMCv)版本6.2.3或更高版本 防火墙迁移工具支持以下设备列表:

- 思科ASA(8.4+)
- •带FPS的Cisco ASA(9.2.2+)
- 检查点(r75-r77)
- 检查点(r80)
- Fortinet(5.0+)
- Palo Alto Networks(6.1+)

在继续迁移之前,请考虑<u>防火墙迁移工具的准则和限制。</u>





1. **从**思科软件中心下载最新的Firepower迁移工具:

Contacts

Feedl

Site Map

| CISCO Products & Service | es Suppor | t How to Buy Training & Events | Partners Employees | | Ricardo Vera | ତୁ ପ ପ |
|----------------------------------|------------------|---|---|---|-------------------------------|--------|
| Software Dov | wnload | | | | | |
| Downloads Home / Security / Fire | walls / Next-Gen | eration Firewalls (NGFW) / Secure Firewall Threat | t Defense Virtual / Firepower Mi | gration Tool (FMT)- 3.0.1 | | |
| Q. Search | | Secure Firewall Thre | at Defense Vir | tual | | |
| Expand All Collapse | All | Release 3.0.1 | | Related Links an Open Source Release Notes for 3.0. Install and Upgrade Gi | d Documentation 1 uides | |
| 3.0.1 | | | | | | |
| 2.5.3 | | | | | | |
| All Release | ~ | File Information | | Release Date | Size | |
| 3 | > | The extractor will be used to extract che configurations which will be used as an i | ckpoint device-specific input to Firepower | 10-Aug-2022 | 9.83 MB | ±₩∎ |
| 2 | > | Migration Tool. FMT-CP-Config-Extractor_v3.0.1-7373.exe Advisories | | | | |
| | | Firepower Migration Tool 3.0.1 for Mac Firepower_Migration_Tool_v3.0.1-7373.comm Advisories C | nand | 10-Aug-2022 | 34.75 MB | ±₩∎ |
| | | Firepower Migration Tool 3.0.1 for Windo Firepower_Migration_Tool_v3.0.1-7373.exe Advisories | ows | 10-Aug-2022 | 35.42 MB | ±₩∎ |

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Trademarks |

2. 单击之前下载到计算机的文件。

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| 🖈 Quick access | | Name | | Date modified | Туре | Size | | | | | |
| E Desktop | * ~ | Last week (1) | | | | | | | | | |
| 👆 Downloads | * | Firepower_Migration | _Tool_v3.0.1-7373.exe | 8/11/2022 10:06 PM | Application | 36,270 KB | | | | | |
| Documents | * | | | | | | | | | | |
| Pictures | * | | | | | | | | | | |
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| 💣 Network | | | | | | | | | | | |
| 1 item 1 item selected | d 35.4 MB | | | | | | | | | 800 | |

注意:该程序会自动打开,控制台会在您运行文件的目录上自动生成内容。

| Culture cald Constant Concerns Margins Test v101-777 ave | - | × |
|---|---|-------|
| | | _ |
| 2022-00-10 21:24:49,752 [NFO] > Initializing | | 1 |
| 2022-00-18 2124:49,767 [DV0 settings] > "Settings:[global_suffix" | | |
| 2022-08-18 21:24:50,189 [1000 [1001_Version] > [001Version:[0417171] | | |
| 2022-00-18 21:24:59,252 [NN0] > | | |
| 2022-00-18 2124:51,252 [050] [Coloring Setting: | | |
| 2022-00-10 2124:51,200 [DND Client] > Cotting 511 contact the calls server | | |
| 2022-08-18 21:24:51,297 [NOO TODIS] > NOT VERTICING SSI CONTINUED IN CONSISCE OF A | | |
| 2022-00-10 21:24:51,249 [Delt] Climit] > no discovery or completed, all emplotes needs to | | - |
| 3022-08-18 21-24-51 314 (INFO I settional & "Disabled costole outle" | | |
| 3022-08-18 21124151 hts [DEB16 | | |
| 2022-00-10 21:24:51.114 [1000] COMMON > [10104 CONT: 0000] | | |
| 2022-08-18 21/24/51 299 [DV0 curl > "22222 Starting server at http://localbost/2025 cccc" | | |
| * Running on http://localhost:RERE/ (Press CTRL+C to guit) | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] GET / HTTP/1.1 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] "GET /styles.a0d70d0031ca150b2361.bundle.css HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] "GET /inline.318b50c57b4eba3d437b.bundle.js HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] "GET /cul-font.880241c0as87as899c6a.woff2 HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] "GET /polyfills.76c2f21d4e2a1188f46c.bundle.js HTTP/1.1" 200 | | |
| 127.0.0.1 - [18/Aug/2022 21:24:56] "GET /main.777e77bd49fe82694a1a.bundle.js HTTP/1.1" 200 - | | |
| 2022-00-18 21:24:57,675127.0.0.1 - [18/Aug/2022 21:24:57] "GET /assets/cisco.svg HTTP/1.1" 200 | | |
| [INFO cco_login] > "EULA check for an user" | | |
| 2022-08-18 21:24:57,704 [DEBUG common] > "session table records count:1" | | |
| 127.0.0.1 · [18/Aug/2022 21:24:57] "GET /api/eula_check HTTP/1.1" 200 · | | |
| 127.0.0.1 - [18/Aug/2022 21:24:57] "GET /assets/icons/login.png HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:58] "GET /assets/images/1.png HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:58] "GET /assets/images/3.png HTTP/1.1" 200 - | | |
| 127.0.0.1 - [18/Aug/2022 21:24:58] "GET /assets/images/2.png HTTP/1.1" 200 - | | |
| 127.0.0.1 [18/Aug/2022 21:24:58] "GET /favicon.ico HTTP/1.1" 200 - | | |
| | | |

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| Downloads | 1 | app.config.tut | 6/16/2522-9.24 PM | Text Document | 1.00 | | |
| locuments | * | Frepower, Migration, Tool, v3.8.1-7373.exe | 8/11/2522 10:06 PM | Application | 36,270 KB | | |
| ictures | 1 | hd_migration.ugite | 8/16/2522-9:24 PM | SQL/TE File | 504.KB | | |
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3. 运行该程序后,它会打开一个显示"最终用户许可协议"的Web浏览器。 选中此复选框可接受条 款和条件。单击**Proceed**。

Firewall Migration Tool

END USER LICENSE AGREEMENT



4. 登录迁移工具。您可以使用CCO帐户或本地默认帐户登录。本地默认帐户凭据为: admin/Admin123



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5. 选择要迁移的源防火墙。 在本示例中,Cisco ASA(8.4+)用作源。

CISCO Firewall Migration Tool

Select Source Configuration

| Select Source Configuration 💿 | Cisco ASA (8.4+) Pre-Migration Instructions |
|-------------------------------|---|
| Source Firewall Vendor | |
| Select Source | () This migration may take a while. Do not make any changes to the Firepower Management Center (FMC) when migration is in progress. |
| Cisco ASA (8.4+) | |
| Cisco ASA (9.2.2+) with FPS | Acronyms used: |
| Check Point (r75-r77) | FMT: Firewall Migration Tool FMC: Firepower Management Center |
| Check Point (r80) | FTD: Firepower Threat Defense |
| Fortinet (5.0+) | |
| Palo Alto Networks (6.1+) | Before you begin your Adaptive Security Appliance (ASA) to Firepower Threat Defense migration, you must have the following items: |
| | Stable IP Connection: Ensure that the connection is stable between FMT and FMC. |
| | FMC Version: Ensure that the FMC version is 6.2.3 or later. For optimal migration time, improved software quality and stability, use the suggested release for your FTD and FMC. Refer to the gold star on CCO for the suggested release. |
| | FMC Account: Create a dedicated user account with administrative privileges for the FMT and use the credentials during migration. |
| | FTD (Optional): To migrate the device configurations like interfaces, routes, and so on, add the target device to FMC. Skip this step if you want to migrate only the shared configurations like objects, NAT, ACL, and so on. |
| | ASA Configuration Requirements: Export configuration file from ASA to cfg or .txt format. Connect to live ASA to extract the configuration file for one or more contexts. To migrate following features in ASA 1. Time Based ACLs: FMC and FTD must be on 6.6 or later versions. |
| | 2. IP SLA Monitor: FMC must be on 6.6 or later and FTD must be on 6.2.3 or later. |
| | 3. Object Group Search: FMC and FTD must be on 6.6 or later versions. |
| | 4. ASA5505 Support: FMC and FTD must be on 6.6 or later versions. |
| | Remote Deployment: FMC and FTD must be on 6.7 or later versions. If remote deployment is enabled, Firewall Migration Tool will only migrate ACLs, Network Object and Port Objects. Interface and Route configuration have to be migrated manually on to FMC. |
| | 6. Site-to-Site VPN Tunnels: Policy Based (Crypto Map) VPN needs FMC and FTD to be on 6.6 or later. Route Based (VTI) Support , FMC and FTD to |

6. 选择用于获取配置的提取方法。 手动上传要求您上传 Running Config ASA文件,格式为".cfg"或 ".txt"。连接到ASA以直接从防火墙提取配置。

be on 6.7 or later. Ensure FTD must be added to FMC before migration. Fin

Migration Tool will migrate VPN tunnels as Point-to-Point

| | 0 | 2 | 3 | 4 | 5 | 6 | |
|---|---|------|---|------------------------------|-------------------------|---|-------------------------|
| tract Cisco As | SA (8.4+) Information | | | | ugumas, namer a variate | S | ource: Cisco ASA (8.4+) |
| traction Methods | | | | | | | ~ |
| | Manual Upload | | Cor | nnect to ASA | | | |
| File format is '.cfg For Multi-context For Single-contex Do not upload ha | r or tot: upload a show tech. d upload show running. and coded configurations. | AS 1 | Enter the management credentials. IP format should be: -IP Po A IP Address/Hostname 92 168 1 20 | IP address and connect using | admin | | |
| ontext Selection | | | | | | | > |
| rsed Summary | | | | | | | > |

注意:在本示例中,直接连接到ASA。

7. 在防火墙上找到的配置摘要显示为控制面板,请点击下一步。

| altalta cisco | Firewal | Il Migration Tool | | | | | | | | | | |
|------------------|---------|--------------------------------------|---|-----------------|--------------|---|--|--|--|--|--|--|
| | | Extract Cisco ASA (8.4+) | Information () | × | | | | | | | | |
| | | Extraction Methods | traction Methods | | | | | | | | | |
| | | ASA IP Address: 192.168.1.20 | SA IP Address: 192.168.1.20 | | | | | | | | | |
| | | Context Selection | | | | | | | | | | |
| | | Single Context Mode: Download config | | | | | | | | | | |
| | | Parsed Summary | Parsed Summary | | | | | | | | | |
| | | Collect Hitcounts: No | | | | | | | | | | |
| | | 8 | 2 | 0 | 0 | | | | | | | |
| | | Access Control List Lines | Access List Objects (Standard, Extended used in BGP/RAVPN/EI/GRP) | Network Objects | Port Objects | 6 | | | | | | |
| | | | | | | | | | | | | |

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Source: Cisco ASA (8.4+) >

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k Address Tra

on report will be available after s

8. 选择要用于迁移的目标FMC。 提供FMC的IP。 它会打开一个弹出窗口,提示您输入 FMC的登录凭证。

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Site-to-Site VPN Tunnels

0 Dynamic-Route Object mity-List, Poli -List, Route-Map

0

ote Access VPN ection Profiles

| | 0 0 | • |
|--|-----|---|
|--|-----|---|

| Select Target 💿 | × | Source: Cisco ASA (8.4+) |
|---|---------------------|--------------------------|
| Firewall Management | | ~ |
| On-Prem/Virtual FMC FMC IP Address/Hostname | Cloud-delivered FMC | |
| 192.168.1.18 | | |
| 1 FTD(s) Found | | |
| Proceed | | |
| Successfully connected to FMC | | |
| Choose FTD | | > |
| Select Features | | > |
| Rule Conversion/ Process Config | | > |

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9. (可选)选择要使用的目标FTD。如果选择迁移到FTD,请选择要使用的FTD。如果不想使用 FTD,可以填写此复选框 Proceed without FTD

| cisco | Firewall Migration Tool | |
|-------|---|---------------------------|
| | Select Target | e: Cisco ASA (8.4+) |
| | Firewall Management | > |
| | FMC IP Address/Hostname: 192.168.1.18 | |
| | Choose FTD | ~ |
| | Select FTD Device FTD (192.168.1.17) - VM/Ware (Native) V | |
| | Please ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The existing configuration of the FTD device on the FMC is erased when you push the migra | ated configuration to the |
| | rm. | |
| | Proceed | |
| | Select Features | > |
| | Rule Conversion/ Process Config | > |
| | | |
| | | |

10. 选择要迁移的配置,屏幕截图上显示选项。

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| Firewall Management | | |
|---------------------------------------|---|---------------------------------|
| FMC IP Address/Hostname: 192.168.1.18 | | |
| Choose FTD | | |
| Selected FTD: FTD | | |
| Select Features | | |
| Device Configuration | Shared Configuration | Optimization |
| ✓ Interfaces | Access Control | Migrate Only Referenced Objects |
| Routes | Populate destination security zones | Object Group Search 🕕 |
| Static | Route-lookup logic is limited to Static Routes and Connected Routes. PBR, Dynamic-Routes & NAT are not considered. | Inline Grouping |
| EICER | ✓ Migrate tunnelled rules as Prefilter | |
| Cite to Cite UDM Tunnels (no data) | NAT (no data) | CSM/ASDM |
| Bolicy Based (Covolo Mao) | Network Objects (no data) | |
| Doute Raseri (VTI) | Port Objects (no data) | |
| | Access List Objects(Standard, Extended) | |
| | Time based Objects (no data) | |
| | Remote Access VPN | |
| | A Remote Access VPN migration is supported on FMC/FTD 7.2 and above. | |

11. 开始将配置从ASA转换为FTD。

| irewall | Migration Tool | | | | | | | | 100 |
|---------|---------------------------------------|------------------------------|--------------------|------------------------|--|----------------------------------|-------------------------|--------------------------|-----|
| | | 1 Extract ASA Information | 2 Select Target | 3 Map FTD Interface | 4 Map Security Zones & Interface Groups | 5 Optimize, Review & Validate | 6 Complete Migration | | |
| S | elect Target 🗿 | | | | <u>^</u> | | | Source: Cisco ASA (8.4*) | |
| 1 | Firewall Management | | | | | | | > | |
| | FMC IP Address/Hostname: 192.168.1.18 | | | | | | | | |
| (| Choose FTD | | | | | | | > | |
| | Selected FTD: FTD | | | | | | | | |
| 1 | Select Features | | | | | | | > | |
| 1 | Rule Conversion/ Process | s Config | | | | | | ~ | |
| | Start Conversion | | | | | | | | |

12. 转换完成后,将显示一个控制面板,其中包含要迁移的对象(仅限于兼容性)的摘要。 您也 可以点击 Download Report 接收要迁移的配置摘要。



迁移前报告示例,如图所示:

| oli Cit | Pre-Migration Report | | Date: 18 August 2022 22:04 PM | | | | | | | | | |
|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| Note: 1 Defen | New: Review all contents of this pre-migration report carefulty. Usurported rules will not be migrated completely, which can potentially alter your original configuration, restrict some traffic, or permit unwanted traffic. We recommend that you update the related rules and policies in Firepower Management Center to ensure that traffic is appropriately handled by Firepower The Defines the the configuration is recommend that you update the related rules and policies in Firepower Management Center to ensure that traffic is appropriately handled by Firepower The Defines the the configuration is recommend that you update the related rules and policies in Firepower Management Center to ensure that traffic is appropriately handled by Firepower The | | | | | | | | | | | |
| 1. C | 1. Overall Summary: | | | | | | | | | | | |
| A summary of the supported ASA configuration elements that can be successfully migrated to Firepower Threat Defense. | | | | | | | | | | | | |
| | Collection Method | Connect ASA | | | | | | | | | | |
| | ASA Configuration Name | asalive_ciscoasa_2022-08-19_02-04-31.txt | | | | | | | | | | |
| | ASA Firewall Context Mode Detected | single | | | | | | | | | | |
| | ASA Version | 9.16(1) | | | | | | | | | | |
| | ASAHostname | Not Available | | | | | | | | | | |
| | ASA Device Model | ASAv, 2048 MB RAM, CPU Xeon 4100/6100/8100 series 2200 MHz | | | | | | | | | | |
| | Hit Count Feature | No | | | | | | | | | | |
| | IP SLA Monitor | 0 | | | | | | | | | | |
| | Total Extended ACEs | 0 | | | | | | | | | | |
| | ACEs Migratable | 0 | | | | | | | | | | |
| | Site to Site VPN Tunnels | 0 | | | | | | | | | | |
| | FMC Type | On-Prem FMC | | | | | | | | | | |
| | Logical Interfaces | 1 | | | | | | | | | | |
| | Network Objects and Groups | 1 | | | | | | | | | | |

13. 将ASA接口与迁移工具上的FTD接口映射。

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|---|---|---|
| - | • | • |

| Map FTD Interface 🕓 | | × · | |
|---------------------|-----------------------|---------|--|
| | | Refresh | |
| ASA Interface Name | FTD Interface Name | | |
| ManagamanNiji | GinabilEthamathin | | |
| Menagementary | Gigaola; internetario | • | |
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14. 为FTD上的接口创建安全区域和接口组

| cisco | Firewa | all Migration Tool | | | | | | | 000 |
|-------|--------|--------------------------------|--------------------|----------------------|---|-------------------------|--------|---|-----|
| | | Map Security Zones and Inter | face Groups 🕕 | × | | | | Source: Cisco ASA (8.4+) Target FTD: FTD | |
| | | | | | | Add SZ & IG Auto-G | treate | | |
| | | ASA Logical Interface Name | FTD Interface | FMC Security Zones | | FMC Interface Groups | | | |
| | | management | GigabitEthernet0/0 | Select Security Zone | × | Select Interface Groups | ~ | | |
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安全区域(SZ)和接口组(IG)由该工具自动创建,如图所示:

| Man Security Zones | and Interface Group | e 🕜 | | | | Source: Cisco ASA (8.4 | +) | |
|--|---|---|---|--|------------------------------------|---|-----------|---|
| Map Security Zones | and interface Groups | 50 | | Add SZ & | G Auto-Create | Target FTD: FTD | | |
| ASA Logical Interface Nam | e FTD Interface | , | FMC Security Zones | FMC Interface | Groups | | | |
| management | GigabitEthernet0/0 | | management | ✓ management_ig (A) | v | | | |
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Note: Populate the areas highlighted in Yellow in EIGRP. Site to Site and Remote Access VPN sections to validate and proceed with migration.

Validate

16. 如果验证状态成功,将配置推送到目标设备。

| Extract AS- | | Va | lidation Statu | IS | | Migration | |
|---|--------------------------------|----------------------------------|-----------------------------|-------------------------------------|---------------|---|--|
| Optimize, Review and Vali | | \oslash | Successfully Validate | d | | urce: Cisco ASA (8.4+) rget FTD: FTD | |
| Access Control 🗸 Objects 🗸 NAT 🗸 | Validation Summary (Pre- | push) | | | | | |
| Access List Objects / Network Objects Access List Objects Select all 1 entries Selected 0/1 Mame Q | 0 Access Control List Lines | | 1 Network Objects | | | , Search 🛓 | |
| D 1 etc-162.168.1.1 | | 1 Logical Interfaces | 1 Routes | | | | |
| | 1 Note: T | he configuration on the target F | TD device FTD (192.168.1.1) |) will be overwritten as part of th | is migration. | | |
| rpage 11o1of1 (< < Page 1 of1 > > | | | Push Configuration | | | | |

通过迁移工具推送的配置示例,如图所示:

| cisco Firewall Migration Tool | | | 000 |
|---|--|---|-----|
| Detract ADA Information | PUSHING | S Complete Migration | |
| Complete Migration ③ Migration Status | 25% Complete Push In progress. Refer FMT Terminal to monitor the migration status. | Source: Claco ASA (6.4+) Target FTD: FTD | |
| Interfaces | | | |
| Network Objects | | | |
| | | | |
| Access Control Policies | | | |
| | | | |
| Please download the Post-Push migration report for a detailed summary. Download | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

成功迁移的示例,如图所示:

| malata Migratia - O | | | | Source: Cisco ASA (8.4+) |
|---|---|-------------------------------------|-----------------------------|--------------------------|
| mplete Migration () | | | | Target FTD: FTD |
| tion Status | | | Optimization Status | |
| Migration is complete, policy is p Next Step - Login to FMC to dep | oushed to FMC. Noy the policy to FTD. | | ACL Optimization is not app | lied for this migration. |
| Connect: asaconfig.txt | | | | |
| | | | | |
| ted Context: Single Context Mode | | | | |
| ted Context: Single Context Mode | | | | |
| ted Context: Single Context Mode | | | | |
| ted Context: Single Context Mode ation Summary (Post Push) | | 1 | | |
| ted Context: Single Context Mode Ltion Summary (Post Push) 0 Access Central List Lines | | 1 Network Objects | | |
| ted Context: Single Context Mode ation Summary (Post Push) | | 1 Network Objects | | |
| ted Context: Single Context Mode tion Summary (Post Push) 0 iccess Control List Lines at selected for migration | Not selected for migration Access List Orgects (Standard, Edmolet und in BORNWPNE)GRP | 1 Network Objects | | |
| ted Context: Single Context Mode ation Summary (Post Push) O Access Control List Lines Ret selected for migration beek Address Translation | Not selected for migration Access List Objects Bandard, Dahnded used in BandourseBatery 1 Logical Interfaces | 1 Network Objects 1 Routes | | |

17. (可选)如果选择将配置迁移到FTD,则需要部署将可用配置从FMC推送到防火墙,以便部署 配置: 登录到FMC GUI。导航至 Deploy 选项卡。选择要将配置推送到防火墙的部署。点击 Deploy

| cisc | . F | Firepower Management Center Q | Overview | Analysis | Policies | Devices | Objects | AMP | Intelligence | | | | Deploy | ہ 🍪 | 🛛 adm | in • |
|------|-------|--|----------|----------|----------|---------|---------|----------------|--------------|-------|-----------------------|---------|---------|-----|--------|------|
| | | | | | | | | | | | | | | | Deploy | 7 |
| Q, 5 | earch | h using device name, type, domain, group or status | | | | | | | | | | | | | | |
| | | Device | | | | | Inspect | t Interruption | а Туре | Group | Last Deploy Time | Preview | Status | | | |
| ~ | | FTD | | | | | | | FTD | | 8/13/2022, 6:01:52 PM | 8 | Pending | | | |
| | | Device Configurations Interface Policy Advanced Settings Routing Group IIIV-4 Static Route Policy | | | | | | | | | | | | | | |
| | | | | | | | | How | r To | | | | | | | |

故障排除

本部分提供的信息可用于对配置进行故障排除。

验证放置了Firepower迁移工具文件的目录中的日志,例如:

Firepower_Migration_Tool_v3.0.1-7373.exe/logs/log_2022-08-18-21-24-46.log

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。

请注意:即使是最好的机器翻译,其准确度也不及专业翻译人员的水平。

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