

# FirePOWER ديدهت ن ع افدلا ىلإ ASA ليحرت FMT مادختساب (FTD)

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## عمدقمل

ديدهت زاهج ىلإ Cisco نم (ASA) فيكتلل لباقلا نامأل زاهج ليحرت عارج دن تسمل اذ ه فصى FirePOWER .

## قيساسأل تابلطتمل

### تابلطتمل

نامأل ةزهجأو (FTD) قىامحل ديدهت قىامح رادج cisco نم ةفرعم تنأ ىقلىتي نأ قىصوي cisco (ASA) ةلدعمل.

### عمدختسمل تانوكمل

قيلال قىدامل تانوكمل او جمربل تارادصل ىلإ دن تسمل اذ ه في ةدراول تامولعمل دن تست

- 7.0.1 رادصلإل FirePOWER (FMT) ليحرت ةادأ عم Mac OS ليغشتل ماظن
- 9.16(1) رادصلإل (ASA) فيكتلل لباقلا نامأل زاهج
- 7.4.2 رادصلإل Secure Firewall Management Center (FMCv)
- 7.4.1 رادصلإل Secure Firewall Threat Defense Virtual (FTDv)

قصاخ قىلمعم ةئيب في ةدوجومل ةزهجال نم دن تسمل اذ ه في ةدراول تامولعمل عاشنإ مت تناك اذإ. (قضاقتفا) حوسمم نيوكتب دن تسمل اذ ه في عمدختسمل ةزهجال عىمج تأدب

رمأ يأل لم تحملا ريثأتلل كمهف نم دكأتف ، ليغشلتل دي قكتك بش

## ةماع ةرظن

دنتسملا اذهل ةصاخلا تابللطملا نمضتت

- Cisco Adaptive Security Appliance (ASA)، رادصلأ 8.4 وأ رادصلأ
- شذأ رادصلأ 6.2.3 وأ رادصلأ (FMCv) نمألأ ةياملحلا رادج ةرادإ زكرم

ةيلاتلل ةزهألأ ةمئاق ةياملحلا رادج ليحرت ةادأ معدت

- Cisco ASA (8.4+)
- ASA نم Cisco (9.2.2+) عم FPS
- Cisco (7.2+) نم نمألأ ةياملحلا رادج زاهج ري دم
- صحتفلا ةطقن (r75-r77)
- شيتفتلا ةطقن (r80)
- Fortinet (5.0+)

• وتلأ ولاب تاك بش (6.1+)

## ةيساسأ تامولعم

ةطشنألأ هذه ذي فننتب مق ، كب صاخلا ASA نيوكت ليحرت لب ق

### ASA نيوكت فلم يلعل لوصحلا

عضولل show tech-support وأ ، دحاو قايسل show running-config مدختسأ ، ASA زاهج ليحرتل رتوي بمكلا لىل هل قنو ، txt وأ cfg. فلمك هظفحاو ، نيوكتلل يلعل لوصحلل تاقايسلا ددعت نمألأ ةياملحلا رادج ليحرت ةادأ مادختساب

### ةرادإل زكرم لىل داريتسالو ASA نم PKI ةداهش ري دصت

لىل حاتملا عم ASA config رصملا نم CLI لىل نم ةداهش PKI لىل رصى نأ رمأ اذه تلمعتسا دربم PKCS12:

```
ASA(config)#crypto ca <trust-point-name> pkcs12 <passphrase>
```

نم ديزم . (تانئلكل ةرادإل PKI تانئلك) ةرادإ زكرم لىل PKI ةداهش داريتساب مق مث [Firepower](#) ةرادإ زكرم نيوكت ليلد في PKI تانئلك عجار ، تامولعملا

### AnyConnect تافى صوتو مزح دادرئسإ

ليحرت ةادأ وأ ةرادإل زكرم لىل نم اهلي محت نكميو ةياري تخإ AnyConnect تافى صوت نوكت نمألأ ةياملحلا رادج

TFTP وأ FTP مداخ لىل ASA رصم نم ةبولطملا ةمزحلا خس نل رمألأ اذه مدختسأ

<destination> <ردصملا فلملا مسا:/ردصملا فلملا عقوم> خسن

ASA# copy disk0:/anyConnect-win-4.10.02086-webdeploy-k9.pkg tftp://1.1.1.1 ← لثم —  
AnyConnect ةم زح خسن

ASA# copy disk0:/ external-ss0- 4.10.04071-webdeploy-k9.zip tftp://1.1.1.1 ← خسن لثم —  
ي.جراخلا ضرعت سمللا ةم زح

ASA# copy disk0:/ hostscan\_4.10.04071-k9.pkg tftp://1.1.1.1 ← لثم —  
Hostscan ةم زح خسن لثم

ASA# copy disk0:/ dap.xml tftp://1.1.1.1. ← لثم —  
Dap.xml خسن لثم

ASA# copy disk0:/ sdesktop/data.xml tftp://1.1.1.1 ← لثم —  
Data.xml خسن لثم

ASA# copy disk0:/ VPN\_PROFILE.xml tftp://1.1.1.1 ← لثم —  
AnyConnect فلم خسن لثم

فلم < VPN > تانئاللا ةرادا) ةراداللا زكرم لئلا اهليزنت مت يتلا مزحلا داري تساب مق  
(AnyConnect).

يف نم آلا ةي امحلا رادج ليحرت ةادا نم ةراداللا زكرم لئلا Data.xml و A-Dap.xml ليحرت بجي  
AnyConnect فلم مسق > Remote Access VPN > ققحتلاو ةعجارملا

رادج ليحرت ةادا لال خ نم وأ ةراداللا زكرم لئلا ةرشابم تافيصوت ليحرت نكمي AnyConnect-ب  
AnyConnect فلم > Remote Access VPN > ققحتلاو ةعجارملا مسق يف نم آلا ةي امحلا

## نيوكتلا

نيوكتلا تاوطخ:

1. Cisco Software Central نم Firepower ليحرتلا ةادا ثدحأ لئلا زنت.

# Software Download

Downloads Home / Security / Firewalls / Secure Firewall Migration Tool / Firewall Migration Tool (FMT)- 7.0.0

Search...

Expand All Collapse All

Latest Release

7.0.1

All Release

7

7.0.1

**7.0.0**

## Secure Firewall Migration Tool

Release 7.0.0

[My Notifications](#)

Related Links and Documentation

[Open Source](#)

[Release Notes for 7.0.0](#)

[Install and Upgrade Guides](#)

File Information	Release Date	Size	
Firewall Migration Tool 7.0.0.1 for Mac Firewall_Migration_Tool_v7.0.0.1-11241.command <a href="#">Advisories</a>	04-Sep-2024	41.57 MB	<a href="#">Download</a> <a href="#">Share</a> <a href="#">Bookmark</a>
Firewall Migration Tool 7.0.0.1 for Windows Firewall_Migration_Tool_v7.0.0.1-11241.exe <a href="#">Advisories</a>	04-Sep-2024	39.64 MB	<a href="#">Download</a> <a href="#">Share</a> <a href="#">Bookmark</a>
Firewall Migration Tool 7.0.0 for Mac Firewall_Migration_Tool_v7.0-11136.command <a href="#">Advisories</a>	05-Aug-2024	41.55 MB	<a href="#">Download</a> <a href="#">Share</a> <a href="#">Bookmark</a>
Firewall Migration Tool 7.0.0 for Windows Firewall_Migration_Tool_v7.0-11136.exe <a href="#">Advisories</a>	05-Aug-2024	39.33 MB	<a href="#">Download</a> <a href="#">Share</a> <a href="#">Bookmark</a>

جميع اربال ليزنت

2. رتوي بكم كلالا اقبسم هليزنتب تمق يذلا فللمل قوف رقنا.

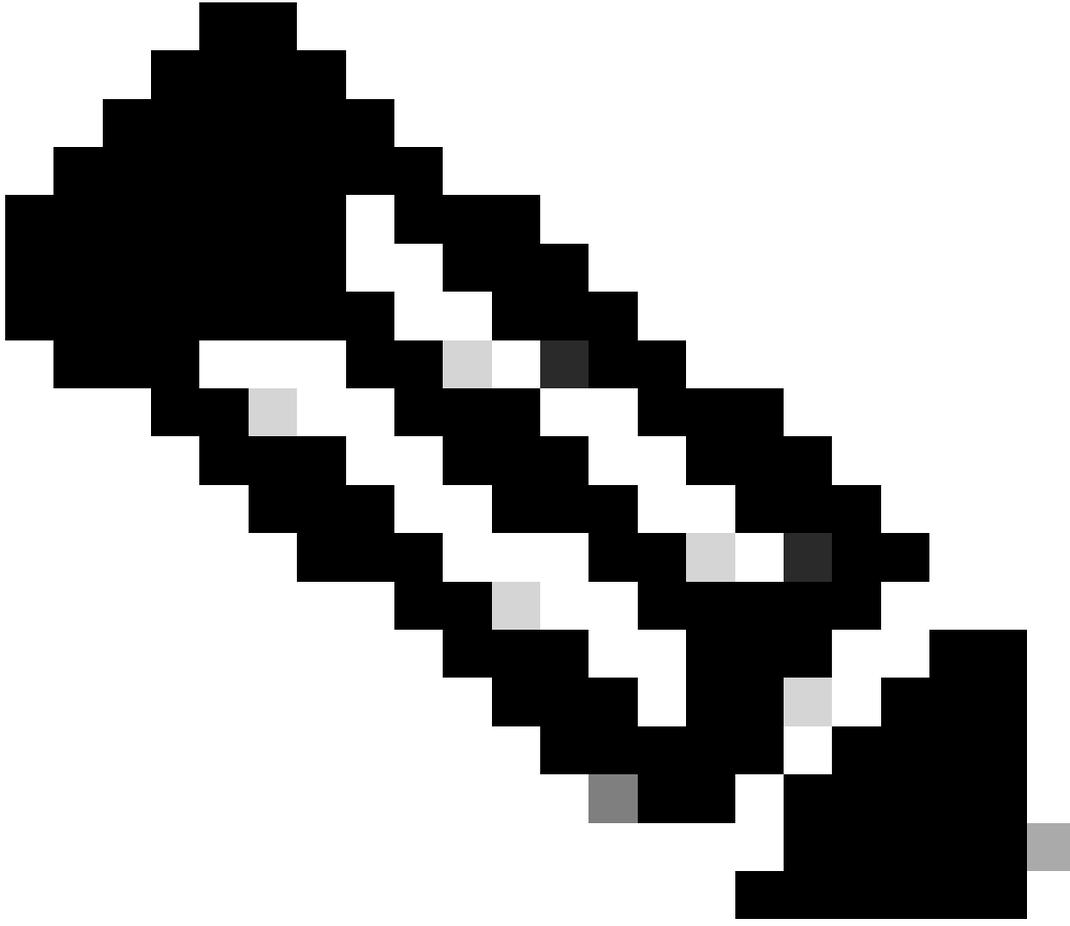
**Downloads**

Name	Size
obj_cst_loader (3).user.js	
fmc_license(1).log	
wblv-ip-fw-2-pri-show-tech (3)(1).cfg	
VPN_conf.txt	
resources	
app_config.txt	
<b>Firewall_Migration_Tool_v7.0-11136.command</b>	
fmc_license(1)(1).log	
unparsed.txt	

فللمل

```
ontext migration.'], 'FDM-managed Device to Threat Defense Migration': ['migrate
the Layer 7 security policies including SNMP and HTTP, and malware and file pol
icy configurations from your FDM-managed device to a threat defense device.'], '
Third Party Firewall to Threat Defense Migration': ['Check Point Firewall - migr
ate the site-to-site VPN (policy-based) configurations on your Check Point firew
all ( R80 or later) to a threat defense device (Version 6.7 or later)', 'Fortine
t Firewall - Optimize your application access control lists (ACLs) when migratin
g configurations from a Fortinet firewall to your threat defense device.']], 'se
curity_patch': False, 'updated_date': '25-1-2024', 'version': '6.0-9892'}}"
2025-01-16 16:51:36,906 [INFO      | views] > "The current tool is up to date"
127.0.0.1 - - [16/Jan/2025 16:51:36] "GET /api/software/check_tool_update HTTP/1
.1" 200 -
2025-01-16 16:51:40,615 [DEBUG    | common] > "session table records count:1"
2025-01-16 16:51:40,622 [INFO     | common] > "proxies : {}"
2025-01-16 16:51:41,838 [INFO     | common] > "Telemetry push : Able to connect t
o SSE Cloud server : https://sign-on.security.cisco.com"
127.0.0.1 - - [16/Jan/2025 16:51:41] "GET /api/eula_check HTTP/1.1" 200 -
2025-01-16 16:51:41,851 [INFO     | cco_login] > "EULA check for an user"
2025-01-16 16:51:46,860 [DEBUG    | common] > "session table records count:1"
2025-01-16 16:51:46,868 [INFO     | common] > "proxies : {}"
2025-01-16 16:51:48,230 [INFO     | common] > "Telemetry push : Able to connect t
o SSE Cloud server : https://sign-on.security.cisco.com"
127.0.0.1 - - [16/Jan/2025 16:51:48] "GET /api/eula_check HTTP/1.1" 200 -
```

مكح تال اة دحو تالجس



ايئاقلت يوتحمل اءاشناب مكحتلا ءحو موقتو ايئاقلت جم انربلا حتف متي : ءطءالم  
هف فللمل ليغشتب تمق يذلا لي لدلا لىع

- 
- صيخرت ءيقافات" ضرعي بيو ضرعتسم حتفب موقبي ، جم انربلا ليغشتب ءعب 3.  
"يئاهنللا مءءتسملا  
1. طورشل او ءونبللا لوبقل رايءءالا ءناء لىع ءم ال عى  
2. ءعباتم لىع رقنا.

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I have read the content of the EULA and SEULA and agree to terms listed.

Proceed

Migrate policies from Cisco ASA or Cisco ASA with FPS or Check Point or PAN or Fortinet to Cisco FTD



Extract Source Information

Any additional information explaining this



الوا

4. مدختسملا هجاو هجاو رهظت و حل اص CCO باسح مادختساب لوخذلا ليجستب مق . بيولا ضرعتسم يلع FMT ل (GUI) ةيوسرللا



## Security Cloud Sign On

Email

Continue

Don't have an account? [Sign up now](#)

Or

[Other login options](#)

[System status](#) [Policy statement](#)

FMT لوخذ ليجست

5. ليجرتلل ردصملا ةياملال رادج ددح .

## Select Source Configuration

Source Firewall Vendor

Select Source

## Cisco Legacy Firewalls

Cisco ASA (8.4+)

Cisco ASA (9.2.2+) with FirePOWER Services

Cisco Secure Firewall Device Manager (7.2+)

## Third Party Firewalls

Check Point (r75-r77)

Check Point (r80-r81)

Fortinet (5.0+)

Palo Alto Networks (8.0+)

## Cisco ASA (8.4+) Pre-Migration Instructions



This migration may take a while. Do not make any changes to the Firewall Management Center (FMC) when migration is in progress.

## Session Telemetry:

Cisco collects the firewall telemetry set forth below in connection with this migration. By completing the migration, you consent to Cisco's collection and use of this telemetry data for purposes of tracking and following up on firewall device migrations and performing related migration analytics.

## Acronyms used:

FMT: Firewall Migration Tool

FMC: Firewall Management Center

FTD: Firewall Threat Defense

Before you begin your Adaptive Security Appliance (ASA) to Firewall 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):**

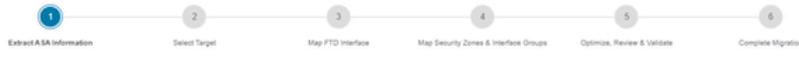
To migrate the device configurations like interfaces, routes, and so on, add the target device to FMC. Skip this step if you want to migrate only the shared configurations like objects, NAT, ACL, and so on.

ردصملا ةيامح راج

6. نيوكتلا لىل لوصحلل هم ادختسا بولطملا جارختسالا بولسأ دح.

1. "Running Config".txt" و "ASA" فلم ليحت يوديلا ليحتلا بلطتي.

2. ةيامحلا راج نم ةرشابم تانيوكتلا جارختسالا ASA بلصتا.



## Extract Cisco ASA (8.4+) Information

Source: Cisco ASA (8.4+)

Extraction Methods

## Manual Upload

- File format is '.cfg' or '.txt'.
- For Multi-context upload a show tech.  
For Single-context upload show running.

⚠ Do not upload hand coded configurations.

Upload

## Connect to ASA

- Enter the management IP address and connect using admin credentials.
- IP format should be: <IP:Port>

ASA IP Address/Hostname

192.168.1.20

Connect

Context Selection



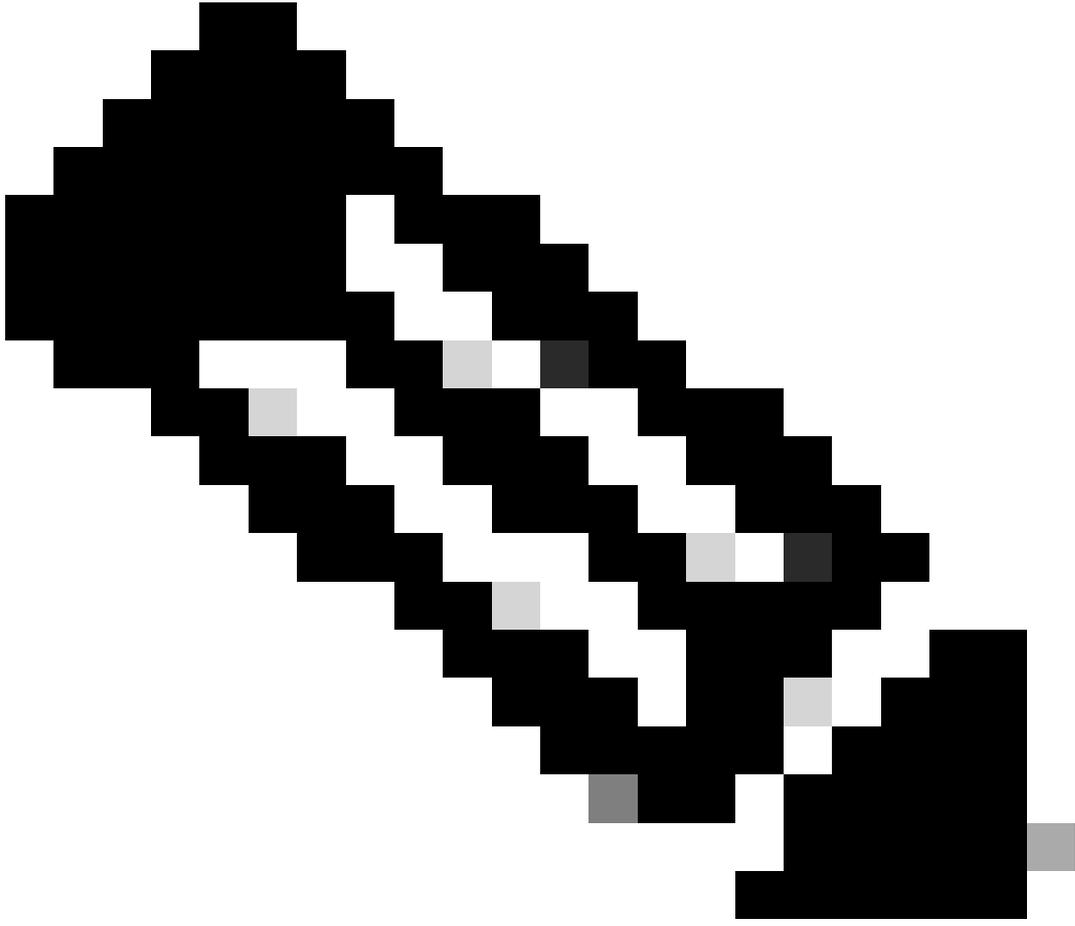
Parsed Summary



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Next

اصالختسا



ASA ب ٲرشابم لاصتالاب مق ،لاثملا لابس ىلع :ٲظالم

---

ٲامولعم ٲحولك ٲيامحل رادج ىف هىلع روٲعلا مٲ ىذلا نىوكتلل صخلم ضرع مٲى 7. ىلاتلا قوف رقنلا اءارلا

## Extract Cisco ASA (8.4+) Information

Source: Cisco ASA (8.4+)

Extraction Methods &gt;

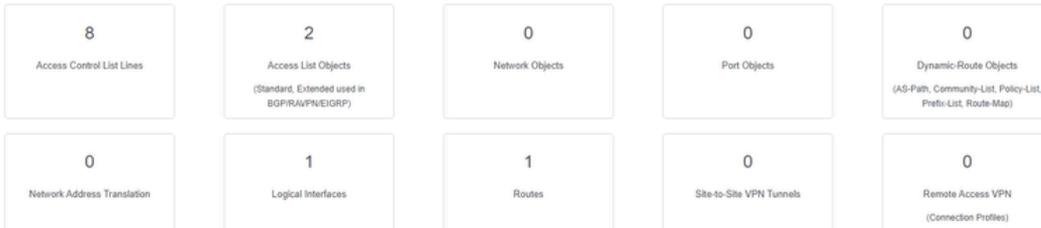
ASA IP Address: 192.168.1.20

Context Selection &gt;

Single Context Mode: Download config

Parsed Summary v

Collect Hitcounts: No



• Pre-migration report will be available after selecting the targets.

<https://cisco.com>

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صخلم

8. ليحرت ال يلع هم ادخت سال فده ال FMC دح.

تانايب كنم بلطي شيح ة قث بنم ةذفان حت فب موقبي. FMC ب صخال IP ناوع ري فوت ب مق FMC ب ةصخال لوخدل ليجست دامتعا.

## Select Target

Source: Cisco ASA (8.4+)

Firewall Management v

 On-Prem/Virtual FMC

 Cloud-delivered FMC

FMC IP Address/Hostname

192.168.1.18

Connect

1 FTD(s) Found

Proceed

Successfully connected to FMC

Choose FTD &gt;

Select Features &gt;

Rule Conversion/ Process Config &gt;

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FMC IP

9. هم ادخت سال ديرت يذال فده ال FTD دح (يراي تخا).

1. هم ادخت سال ديرت يذال FTD دح ف، FTD لي ليحرت ال ترتخا اذا.

2. Proceed without FTD ريش اتال ع برم ةئبت كنكمي FTD م ادخت سال ديرت ال تنك اذا.

## Select Target

Source: Cisco ASA (8.4+)

Firewall Management

FMC IP Address/Hostname: 192.168.1.18

Choose FTD

Select FTD Device

FTD (192.168.1.17) - VMWare (Native)

Proceed without FTD

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 migrated configuration to the FMC.

Proceed

Select Features

Rule Conversion/ Process Config

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فده ل FTD

10. ةشاش ل ااطول ل ع تارايل ل ضرع م تي ،اهل ل حرت ديرت ي لتل انا ي وكتل ل دح .

## Select Target

Source: Cisco ASA (8.4+)

Firewall Management

FMC IP Address/Hostname: 192.168.1.18

Choose FTD

Selected FTD: FTD

Select Features

## Device Configuration

 Interfaces Routes Static BGP EIGRP Site-to-Site VPN Tunnels (no data) Policy Based (Crypto Map) Route Based (VTI)

## Shared Configuration

 Access Control Populate destination security zones

Route-lookup logic is limited to Static Routes and Connected Routes. PBR, Dynamic-Routes &amp; NAT are not considered.

 Migrate tunnelled rules as Prefilter NAT (no data) Network Objects (no data) Port Objects (no data) Access List Objects(Standard, Extended) Time based Objects (no data) Remote Access VPN

Remote Access VPN migration is supported on FMC/FTD 7.2 and above.

## Optimization

 Migrate Only Referenced Objects Object Group Search

## Inline Grouping

 CSM/ASDM

Proceed

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تانا ي وكتل ل

11. فده ل ل ASA نم تانا ي وكتل ل ل وحت ء دب .



## Select Target

Source: Cisco ASA (8.4+)

Firewall Management

FMC IP Address/Hostname: 192.168.1.18

Choose FTD

Selected FTD: FTD

Select Features

Rule Conversion/ Process Config

Start Conversion

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لي وحتلا ادب

م تيس يتلا تانئالكلا صخلم عم تامولعم ةحول ضرعي هنإف ، لي وحتلا يهتني نأ درجم 12. (قفاوتلا لىل ع رصتقي) اهل يحرث

1. م تيس يتلا تانئوكلا صخلم يقلت Download Report ايراي تخار قنلا كنكمي اهل يحرث

## Select Target

Source: Cisco ASA (8.4+)

Firewall Management

FMC IP Address/Hostname: 192.168.1.18

Choose FTD

Selected FTD: FTD

Select Features

Rule Conversion/ Process Config

Start Conversion

0 parsing errors found. Refer to the pre-migration report for more details.

Please download the Pre-Migration report for a detailed summary of the parsed configuration.

Download Report

0 Access Control List Lines	0 Access List Objects (Standard, Extended used in BGP/RAVP/NEIGRP)	1 Network Objects	0 Port Objects	0 Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Prefix-List, Route-Map)
0 Network-Address Translation	1 Logical Interfaces	1 Routes	0 Site-to-Site VPN Tunnels	0 Remote Access VPN (Connection Profiles)

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ريرقنلا ليزنت

ةروصللا يف حضوم وه امك ، لي حرثلا لبق ام ريرقت لاثم

**Note:** Review all contents of this pre-migration report carefully. Unsupported 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 Threat Defense after the configuration is successfully migrated.

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_2025-01-16_02-04-31.txt
ASA Firewall Context Mode Detected	single
ASA Version	9.16(1)
ASA Hostname	Not Available
ASA Device Model	ASA; 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

ليحرتل لبق ام ريرقت

13. ليحرتل اءاى لىل فTD تاهجاوم ادختساب ASA تاهجاوم نييعت ب مق .

Firewall Migration Tool

Map FTD Interface

Source: Cisco ASA (8.4+)  
Target FTD: FTD

ASA Interface Name	FTD Interface Name
Management0/0	GigabitEthernet0/0

20 per page 1 to 1 of 1 Page 1 of 1

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ءطيرخل تاهجاوم

14. فTD لىل تاهجاوم لىل تاهجاوم نام ال قطانم عاشن ا .

## Map Security Zones and Interface Groups

Source: Cisco ASA (8.4+)  
Target FTD: FTD

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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هذه اولى تاع ومجم ونامل ق طانم

حضورم وه امك ، ة اءال ة طساوب ايئ اقل ت (IG) ة ه اولا تاع ومجم و (SZ) نامل ق طانم ءاشن ا متي ة روصلا ي ف:



## Map Security Zones and Interface Groups

Source: Cisco ASA (8.4+)  
Target FTD: FTD

ASA Logical Interface Name	FTD Interface	FMC Security Zones	FMC Interface Groups
management	GigabitEthernet0/0	management	management_lg (A)

10 per page 1 to 1 of 1 |&lt; &lt; Page 1 of 1 &gt; &gt;|

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يئ اقل تال ءاشن ا ة اءا

15. اهنم ق قحت لاو ليحرت لا ة اءا اىل ء اه ليحرت دارم لا تاني وك تال ة ءارم .

1. Validate. ر ق ن اف ، اهن ي سحت وتاني وك تال ة ءارم نم ل ء ف ل اب تي ه ت نا دق تنك اءا .



Optimize, Review and Validate Configuration

Source: Cisco ASA (8.4+)  
Target FTD: FTD

Access Control **Objects** NAT Interfaces Routes Site-to-Site VPN Tunnels Remote Access VPN

Access List Objects **Network Objects** Port Objects VPN Objects Dynamic-Route Objects

Select all 1 entries Selected: 0 / 1

#	Name	Validation State	Type	Value
1	obj-192.168.1.1	Will be created in FMC	Network Object	192.168.1.1

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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

قيدصتلالو ةعجارملا

فدهلا ةزهجالا ىلا تانويكتلا عفدب مق ، ةحصلا نم ققحتلا ةلاح حاجن ةلاح يف 16.

**Validation Status**

Successfully Validated

Validation Summary (Pre-push)

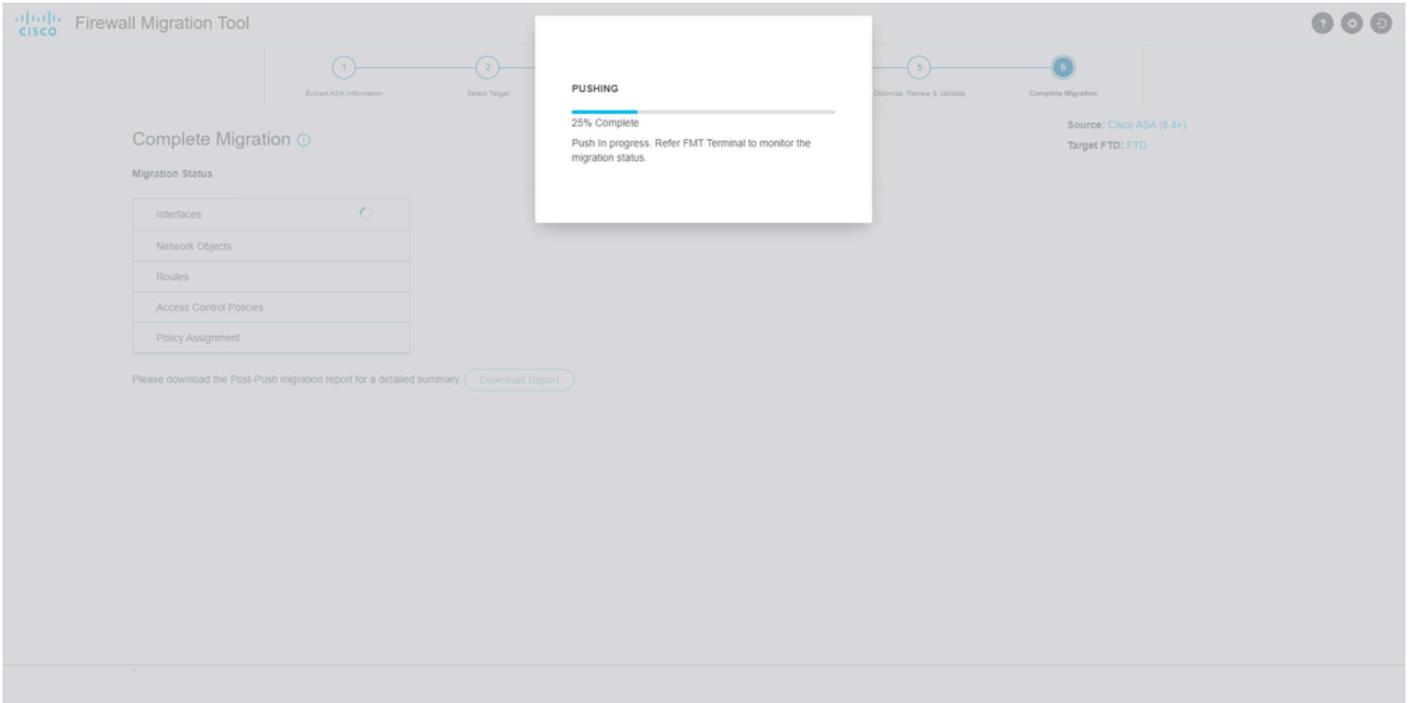
0 Access Control List Lines	Not selected for migration Access List Objects (Standard, Extended used in BGP/VPN/EIGRP)	1 Network Objects	Not selected for migration Port Objects	Not selected for migration Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Prefix-List, Route-Map)
Not selected for migration Network Address Transl...	1 Logical Interfaces	1 Routes	Not selected for migration Site-to-Site VPN Tunnels	Not selected for migration Remote Access VPN (Connection Profiles)

Note: The configuration on the target FTD device FTD (192.168.1.17) will be overwritten as part of this migration.

Push Configuration

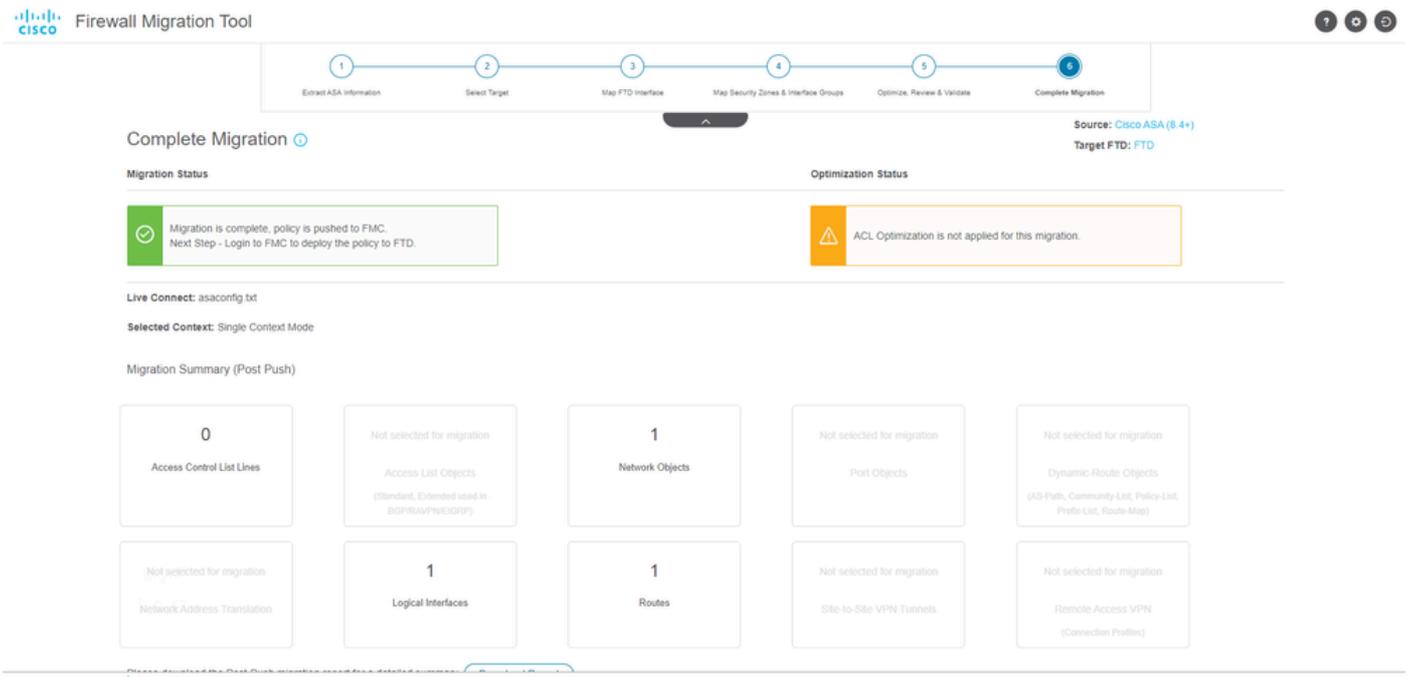
ةحصلا نم ققحتلا

ةروصلا يف حضورم وه امك ، ليحرتلا ةادأ لالخنم عفدمت يذلا نيويكتلا ىلع لاثم



عقد

ةروصل اليف حضورم وه امك، حجانن الال ليجرتن الال ع لاثم:



حجان ليجرت

نيوكتنل عفدل رشن ةيلمع بلطتي هن اف، FTD الال نيوكتنل ليجرتن تدح اذا (يراي تخا) ةي امح ال راج الال فمك نم رفوتنم الال

in order to ليجرتن الال ترشن:

1. فمك حجتنل ةدحوب ةصاخ الال (GUI) ةي موسرلنل مدختنم الال ةهجاو الال لوخدنل لاجس.
2. بيو بتنل الال ةم الال Deploy الال لقتننا.

3. ةيامحل رادج ىل نيوكتل عفدل رشنل ددح.

4. رقنا. Deploy

## اهحال صإو عاطخأل فاشكتسا

اهحال صإو عاطخأل فاشكتسا ل نمآل ةيامحل رادج ربع لىحرتل ةادأ

- ةعئاشل لىحرتل لشف تالاح:
  - ASA نيوكت فلم يف ةحىحص ريغ وأ ةفورعم ريغ فرحأ.
  - ةلمتكم ريغ وأ ةدوقم نيوكت رصانع.
  - لوصولل نمز وأ ةكبشلل لاصلتال لكاشم.
  - ةرادإل زكرم ىل نيوكتل عفد وأ ASA نيوكت فلم لىمحت ءانثأ تالكشم.
  - لىل ام ةعئاشل لىحرتل لكاشم نمضتتو.
- اهل صإو عاطخأل فاشكتسا ل معدل ةومجم مادختسا:
  - معدل رزلل قوف رقنا ، "لماكل لىحرتل" ةشاش يف.
  - اهل لىزنت دىرت لىل نيوكتل تافل م رتخاو معدل ةمزح ددح.
  - لىضارتفالكش ب DB و لىجسل تافل م دىحت متى.
  - .zip. فلم ىل لوصحلل لىزنت قوف رقنا.
  - config و db و تاللىل تافل م ضرعل .zip. جارختساب مق.
  - لىنفلل قىرفل ىل لىنورتك لىل دىربل ربع لىفلل لىصافت لاسرا قوف رقنا.
  - لىنورتك لىل كدىرب يف معدل ةومجم قافراب مق.
  - ةدعاسم لىل لوصحلل Cisco TAC ةلاح ءاشنل TAC ةحفص ةراىز قوف رقنا.
  - تافل م و تانابل ةدعاقو لىجسل تافل م معدل ةمزح لىزنتب ةادأل كل حمست نيوكتل.
  - لىل لىزنتل تاوطخ:
  - معدل نم دىزم ىل لوصحلل

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذه Cisco تچرت  
ملاعلاء انءمچ يف نيمدختسمل معدى وتحم مي دقتل ةيرشبلاو  
امك ةقيد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچرئى. ةصاخلا مهتغب  
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لالحا وه  
ىلإ أمئاد عوچرلاب يصوت وتامچرتل هذه ةقदन ةتيلوئسم Cisco  
Systems (رفوتم طبارلا) يلصلأل يزىلچنلإا دن تسمل