

Configure Static Routes with FDM

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Configure](#)

[Configurations](#)

[Verify](#)

Introduction

This document describes how to configure static routes on Firepower Device Manager (FDM).

Prerequisites

Requirements

It is recommended to have knowledge of these topics:

- Cisco Secure Firewall Threat Defense initial configuration.

Components Used

The information in this document is based on the software version:

- Firepower Threat Defense version 7.0.5.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

Configurations

Step 1. Click **Device** and go to **Routing**.

Firepower Device Manager

Monitoring Policies Objects **Device: firepower**

Model: Cisco Firepower Threat Defense for VMwa... Software: 7.0.5-72 VDB: 338.0 Intrusion Rule Update: 20210503-2107 Cloud Services: Not Registered | Register High Availability: Not Configured

Inside Network

Cisco Firepower Threat Defense for VMware

Internet

DNS Server

NTP Server

Smart License

ISP/WAN/Gateway

Interfaces

Connected

Enabled 3 of 4

View All Interfaces

Smart License

Evaluation expires in 90 days

Tier: FTDv5 - Tiered (4 core / 8 GB)

View Configuration

Site-to-Site VPN

There are no connections yet

View Configuration

Remote Access VPN

Requires RA VPN license

No connections | 1 Group Policy

Configure

Updates

Geolocation, Rule, VDB, System Upgrade, Security Intelligence Feeds

View Configuration

Troubleshoot

Creation date is not available

REQUEST FILE TO BE CREATED

Advanced Configuration

Includes: FlexConfig, Smart CLI

View Configuration

System Settings

Management Access

Logging Settings

DHCP Server

DNS Server

Management Interface

Hostname

Time Services

SSL Settings

See more

Device Administration

Audit Events, Deployment History, Download Configuration

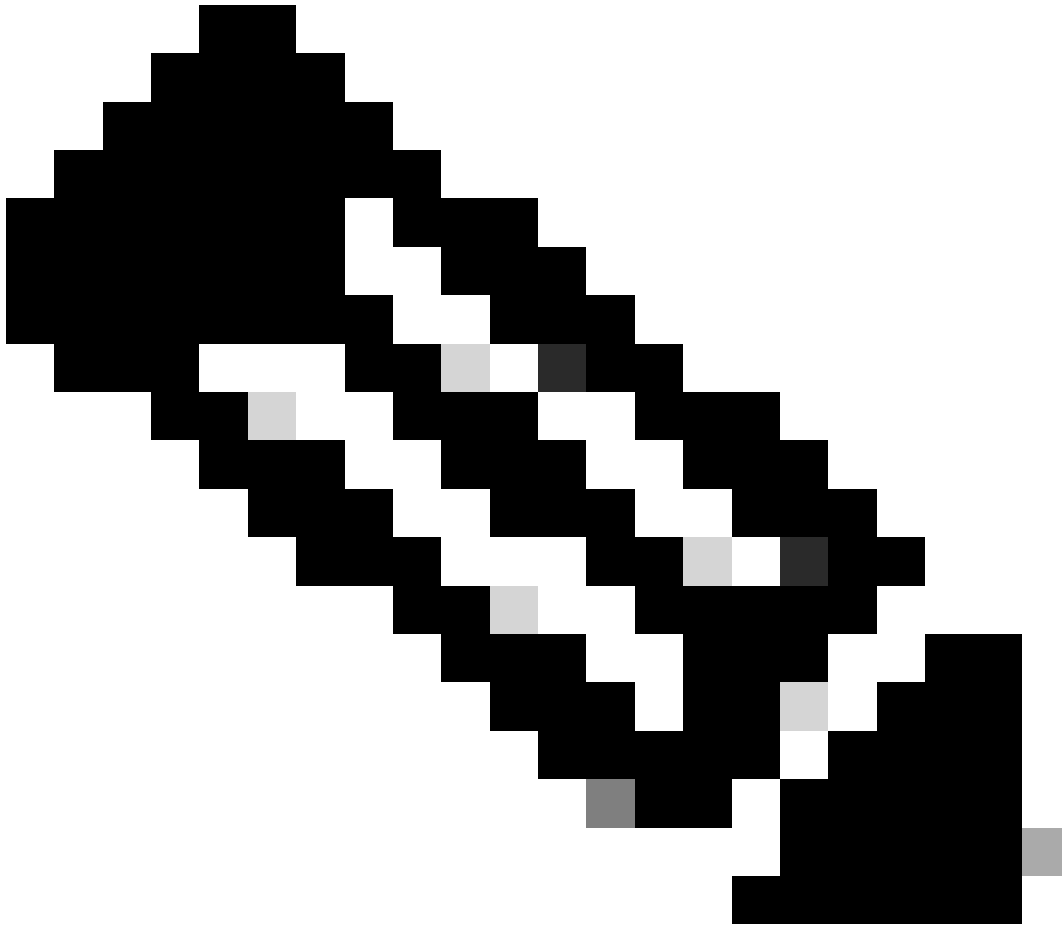
View Configuration

Routing

There are no static routes yet

View Configuration

Step 2. Click on plus icon (+) to add Static route.



Note: In case you have virtual routers, ensure you have selected the correct virtual router.

The screenshot shows the Cisco Firepower Device Manager interface. The top navigation bar includes the Cisco logo, 'Firepower Device Manager', and tabs for 'Monitoring', 'Policies', 'Objects', and 'Device: firepower'. The main content area is titled 'Device Summary Routing'. Below the title, there are tabs for 'Static Routing', 'BGP', 'OSPF', 'EIGRP', and 'ECMP Traffic Zones'. A table with columns for NAME, INTERFACE, IP TYPE, NETWORKS, GATEWAY IP, SLA MONITOR, METRIC, and ACTIONS is shown. The table is currently empty, with a message stating 'There are no static routes yet. Start by creating the first static route.' and a 'CREATE STATIC ROUTE' button. A red box highlights the '+' icon in the top right corner of the table header.

Step 3. Proceed to configure the Static Route properties.

- **Name:** route name.

- **Description (optional):** Detailed information on the route.
- **Interface:** Select the interface to which the traffic must be sent.
- **Protocol:** Specifies the routing protocol.
- **Networks:** In the available network list, select or create the network object of the destination networks.
- **Gateway:** Select or create the network object with the IP of the host to which all traffic to be sent. Enter the values for **Name** and **Host**.

Add Network Object

Name

ISP2

Description

Type

Host

Host

192.168.2.1

e.g. 192.168.2.1 or 2001:DB8::0DB8:800:200C:417A

CANCEL OK

- **Metric:** Enter a value between 1 and 254 for the administrative distance. Remember that the lower valued, the more preferred the route is over others.
- **SLA Monitor (optional):** If you want to ensure that this route is always available, you must configure this field. This option only works with the IPV4 protocol.

Add Static Route



Name

Syslog_Servers

Description

Interface

outside2 (GigabitEthernet0/2)

Protocol

IPv4 IPv6

Networks

+

IPv4-Private-172.16.0.0-12

Gateway

ISP2

Metric

1

SLA Monitor Applicable only for IPv4 Protocol type

Please select an SLA Monitor

CANCEL

OK

- Click **Ok** to complete.

Step 4. Click on Deployment.

Device Summary
Routing

Add Multiple Virtual Routers

Commands BGP Global Settings

Static Routing BGP OSPF EIGRP ECMP Traffic Zones

1 route

#	NAME	INTERFACE	IP TYPE	NETWORKS	GATEWAY IP	SLA MONITOR	METRIC	ACTIONS
1	Syslog_Servers	outside2	IPv4	172.16.0.0/12	192.168.2.1		1	

Step 5. Deploy the policy.

Pending Changes

✓ Last Deployment Completed Successfully
30 Jan 2024 12:30 PM. [See Deployment History](#)

Deployed Version (30 Jan 2024 12:30 PM)	Pending Version																		
<p>Static Route Added: Syslog_Servers</p> <table border="1"> <tr><td>-</td><td>metricValue: 1</td></tr> <tr><td>-</td><td>ipType: IPv4</td></tr> <tr><td>-</td><td>name: Syslog_Servers</td></tr> <tr><td>iface:</td><td></td></tr> <tr><td>-</td><td>outside2</td></tr> <tr><td>gateway:</td><td></td></tr> <tr><td>-</td><td>ISP2</td></tr> <tr><td>networks:</td><td></td></tr> <tr><td>-</td><td>IPv4-Private-172.16.0.0-12</td></tr> </table>		-	metricValue: 1	-	ipType: IPv4	-	name: Syslog_Servers	iface:		-	outside2	gateway:		-	ISP2	networks:		-	IPv4-Private-172.16.0.0-12
-	metricValue: 1																		
-	ipType: IPv4																		
-	name: Syslog_Servers																		
iface:																			
-	outside2																		
gateway:																			
-	ISP2																		
networks:																			
-	IPv4-Private-172.16.0.0-12																		
<p>Physical Interface Edited: outside2</p> <table border="1"> <tr><td>enabled: false</td><td>true</td></tr> <tr><td>-</td><td>ipv4.ipAddress[0].standbyIpAddress:</td></tr> <tr><td>-</td><td>ipv4.ipAddress[0].netmask: 255.255.255.0</td></tr> <tr><td>-</td><td>ipv4.ipAddress[0].ipAddress: 192.168.2.2</td></tr> <tr><td>-</td><td>ipv6.ipAddresses[0].standbyIpAddress:</td></tr> <tr><td>-</td><td>ipv6.ipAddresses[0].ipAddress:</td></tr> <tr><td>-</td><td>name: outside2</td></tr> <tr><td>-</td><td>ipv6.linkLocalAddress.standbyIpAddress:</td></tr> <tr><td>-</td><td>ipv6.linkLocalAddress.ipAddress:</td></tr> </table>		enabled: false	true	-	ipv4.ipAddress[0].standbyIpAddress:	-	ipv4.ipAddress[0].netmask: 255.255.255.0	-	ipv4.ipAddress[0].ipAddress: 192.168.2.2	-	ipv6.ipAddresses[0].standbyIpAddress:	-	ipv6.ipAddresses[0].ipAddress:	-	name: outside2	-	ipv6.linkLocalAddress.standbyIpAddress:	-	ipv6.linkLocalAddress.ipAddress:
enabled: false	true																		
-	ipv4.ipAddress[0].standbyIpAddress:																		
-	ipv4.ipAddress[0].netmask: 255.255.255.0																		
-	ipv4.ipAddress[0].ipAddress: 192.168.2.2																		
-	ipv6.ipAddresses[0].standbyIpAddress:																		
-	ipv6.ipAddresses[0].ipAddress:																		
-	name: outside2																		
-	ipv6.linkLocalAddress.standbyIpAddress:																		
-	ipv6.linkLocalAddress.ipAddress:																		
<p>Network Object Added: ISP2</p> <table border="1"> <tr><td>-</td><td>subType: Host</td></tr> <tr><td>-</td><td>value: 192.168.2.1</td></tr> <tr><td>-</td><td>isSystemDefined: false</td></tr> <tr><td>-</td><td>dnsResolution: IPV4_AND_IPV6</td></tr> <tr><td>-</td><td>name: ISP2</td></tr> </table>		-	subType: Host	-	value: 192.168.2.1	-	isSystemDefined: false	-	dnsResolution: IPV4_AND_IPV6	-	name: ISP2								
-	subType: Host																		
-	value: 192.168.2.1																		
-	isSystemDefined: false																		
-	dnsResolution: IPV4_AND_IPV6																		
-	name: ISP2																		

MORE ACTIONS CANCEL **DEPLOY NOW**

Verify

To confirm whether this setting has been applied correctly, you need to access your device via CLI.

In your CLI, run the command `show running-config route`.

```
> show running-config route
route outside2 172.16.0.0 255.240.0.0 192.168.2.1 1
```

Validate if the route is in the routing table with **show route**.

```
> show route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, V - VPN
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route, + - replicated route
SI - Static InterVRF

Gateway of last resort is not set

S      172.16.0.0 255.240.0.0 [1/0] via 192.168.2.1, outside2
C      192.168.2.0 255.255.255.0 is directly connected, outside2
L      192.168.2.2 255.255.255.255 is directly connected, outside2
C      192.168.45.0 255.255.255.0 is directly connected, inside
L      192.168.45.1 255.255.255.255 is directly connected, inside
```