Configure OSPF Routing on FTD via FDM

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Introduction

This document describes how to configure OSPF routing on the Firepower Threat Defense (FTD) managed by the Firepower Device Manager (FDM).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- FDM
- FTD
- OSPF

Components Used

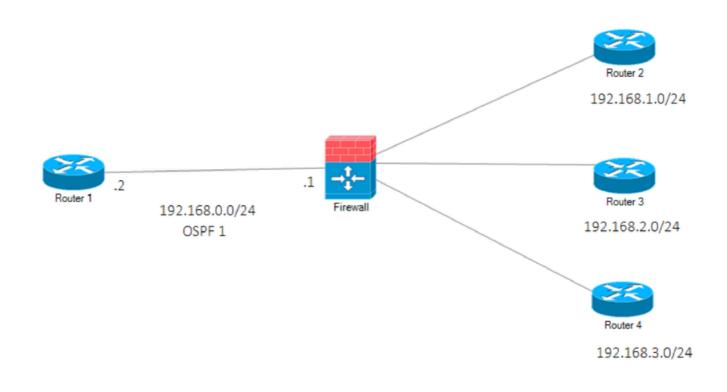
The information in this document is based on these software and hardware versions:

- FTD version 6.4.0 or later and is managed by the FDM
- All physical and virtual platforms

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

Network Diagram



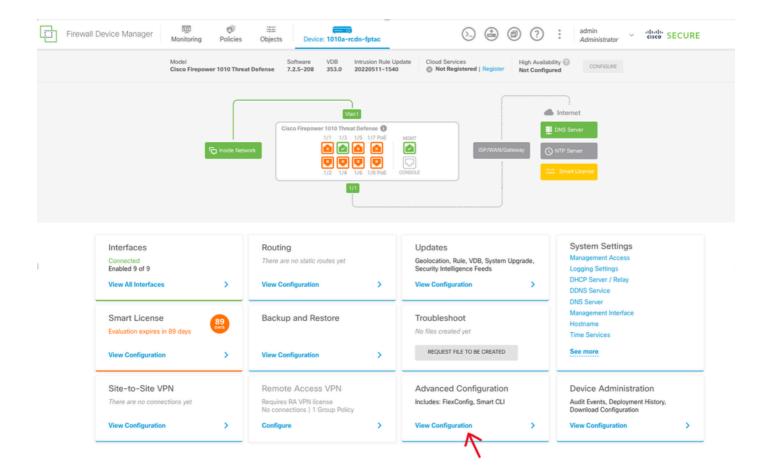
Network Diagram

Configurations

In this scenario you are configuring OSPF on the FTD and R1 router of Network Diagram. You are configuring OSPF on FTD and Router for 3 subnets.

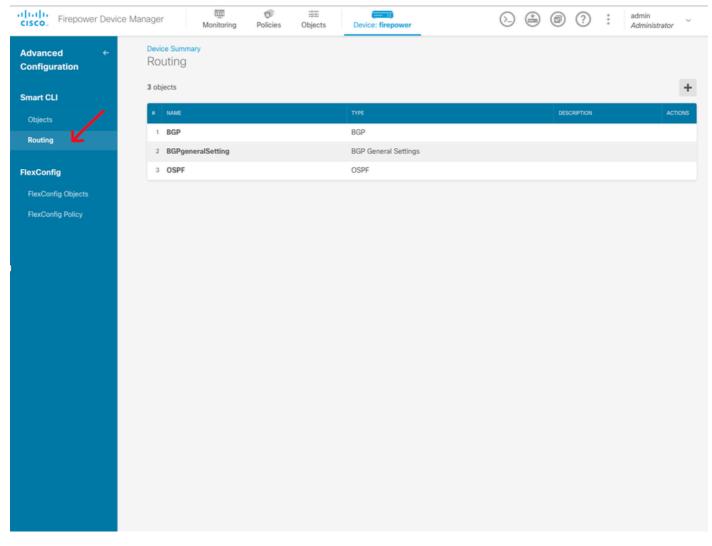
Step 1. To Configure Access the Smart CLI on FTD.

• Log into the FDM, choose Device:Firepower > Advanced Configuration > Smart CLI > Routing > Create New > Add name > CLI Templete >OSPF.



Advanced Configuration on FDM GUI

• (Access routing section and then add with the + icon.)



Routing Selection for OSPF

- Access each configuration template command as per the requirement of your network topology.
- The configuration in the document is completed with the referenced Network Diagram.

Step 2: Configure the Parameters on Smart CLI Object

Edit OSPF Object

Name		Description		
OSPF				
				11
Templa	te		Show disable	ed 🗘 Reset
Θ	1	router ospf 1		
Θ	2	log-adj-changes disable ~		
Θ	3	no log-adj-changes		
Θ	4	setup ospf advanced ~		
Θ	5	router-id 192.168.0.1		
Θ	6	configure summary-route-cost any ~		
Θ	7	no compatible rfc1583		
Θ	8	distance ospf inter-area 110		
Θ	9	distance ospf intra-area 110		
Θ	10	distance ospf external 110		
Θ	11	timers lsa arrival 1000		
Θ	12	timers pacing flood 33		
Θ	13	timers pacing lsa-group 240		
Θ	14	timers pacing retransmission 66		
Θ	15	timers throttle lsa 0 5000 5000		
Θ	16	timers throttle spf 5000 10000 10000		
Θ	17	default-information originate		
Θ	18	default-information originate always		
Θ	19	default-information originate metric 1 metric-type 2 $\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		
Θ	20	area 0		
Θ	21	configure area 0 properties v		
Θ	22	network 192.168.0.0 v area 0 tag-interface v		
Θ	23	network 192.168.1.0 v area 0 tag-interface v		
Θ	24	network 192.168.2.0 v area 0 tag-interface v		
Θ	25	network 192.168.3.0 v area 0 tag-interface v		
			CANCEL	ОК

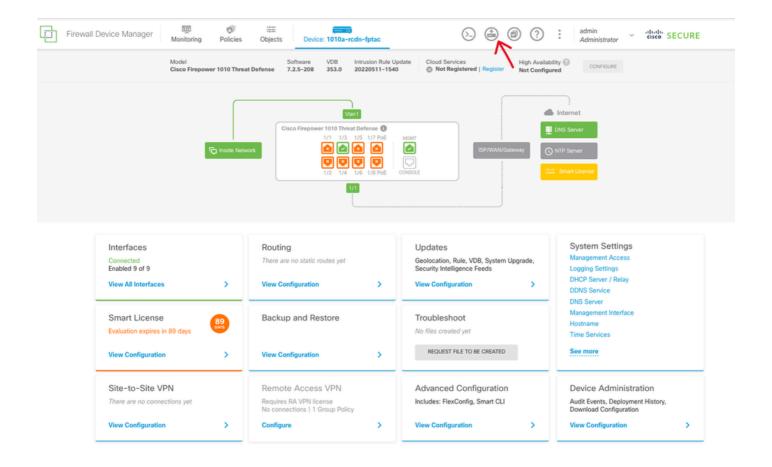
8 ×

Smart CLI configuration for OSPF

- Highlighted are the configuration changes which are to be done as per the network diagram.
- The parameters: OSPF process ID, router-id, area and the networks are being changed.

Step 3: Deploy the Config Change

• Click on the **Deploy** icon which is indicated with an arrow in the next image.



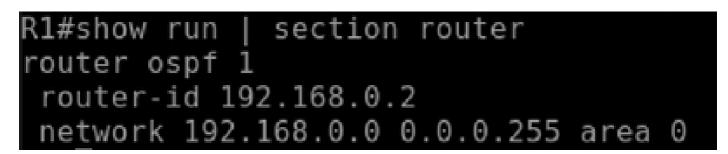
Deploy icon on FDM GUI

• Then Click on the **Deploy Now** tab.

(L)	Firewall Device Manager	Monitoring	Ó	18 mm - 19 mm	(100)			<u>.</u>	admin histrator v cisco S	ECURE	
			Pending	Changes							
		Model Cisco Firepo							NFIGURE		
					ajada						
							CANCEL	DEPLOY NOW			
			MORE ACTIO	N5 ¥			CANGEL .	DEPLOY NOW			
						1/8 PoE	CONSOLE	chicke Smart I	Jense		
					1/1						
	Interfaces			Routing			Updates	S	ystem Settings		
	Connected Enabled 9 of 9			There are no stati	routes yet		Geolocation, Rule, VDB, System Upgrad Security Intelligence Feeds	ue,	anagement Access gging Settings		
	View All Interface	s	>	View Configuration			View Configuration >	> Dł	DHCP Server / Relay DDNS Service		
	Smart License			Backup and Restore				DM	IS Server		
			89				Troubleshoot		Management Interface Hostname		
	Evaluation expires		-			No files created yet	Ti	ne Services			
	View Configuration	on	>	View Configuration	in .	>	REQUEST FILE TO BE CREATED	Se	e more		
	Site-to-Site \			Remote Acce			Advanced Configuration		evice Administration		
	There are no conn	ections yet					Includes: FlexConfig, Smart CLI		dit Events, Deployment History, winload Configuration		
	View Configuration	n	>	Configure		>	View Configuration	> Vi	ew Configuration	>	

Step 4: Configuration on Router

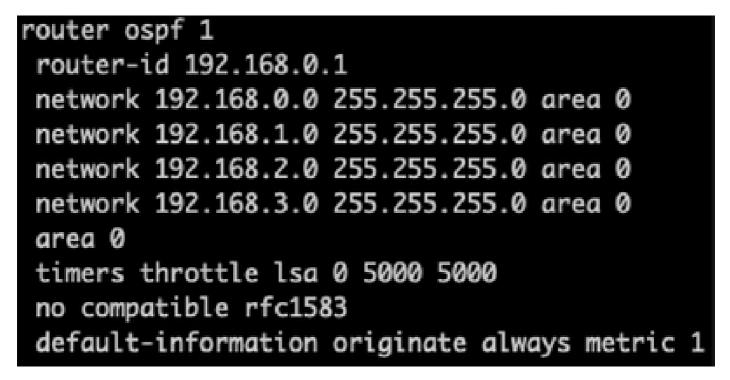
• Add the configuration to the router. In this scenario you are configuring on router R1 from Network Diagram. Refer the next image.



Router configuration for OSPF

Step 5: Verify the Configuration on FTD CLI

• Verify with show run router ospf command on CLI.



Verification of Config on FTD CLI

Verify

To verify on the config on FTD CLI:

- show route check for OSPF O routes being advertised.
- show ospf neighbour

To verify the config on Router:

• show ip route — check for OSPF O routes being advertised.

• show ip ospf neighbor