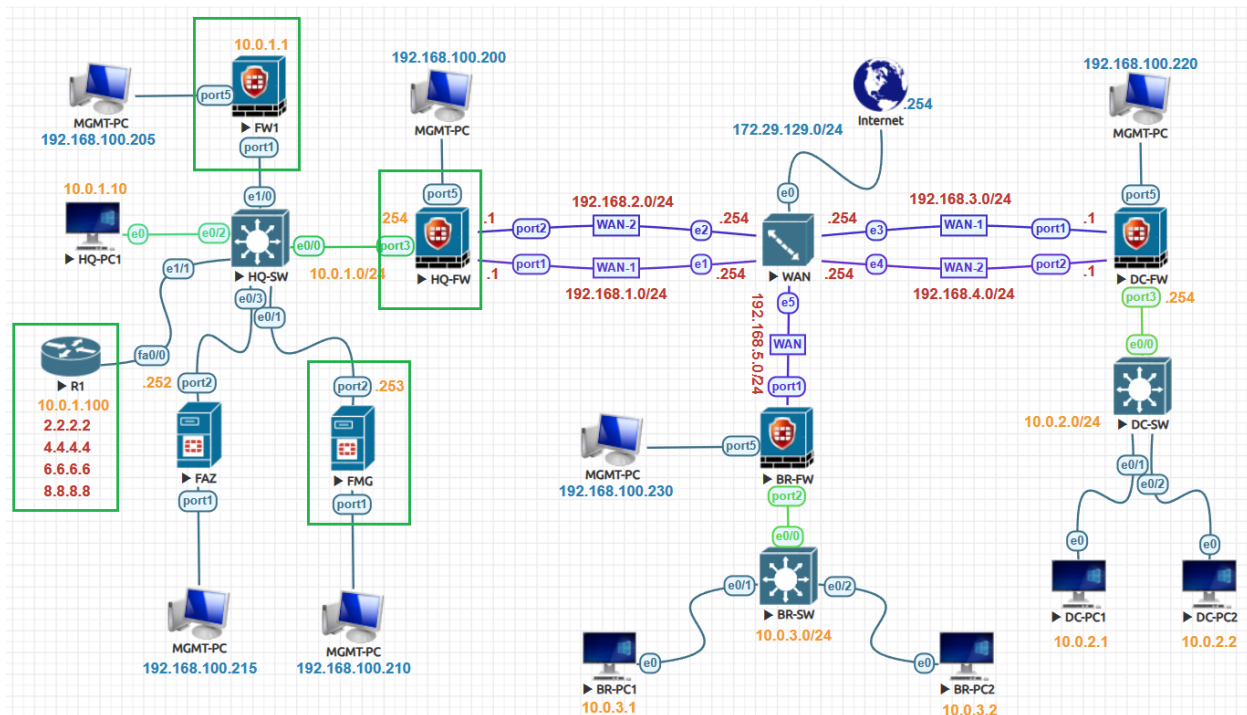


OSPF Configuration FortiManager:



R1 Basic Configuration

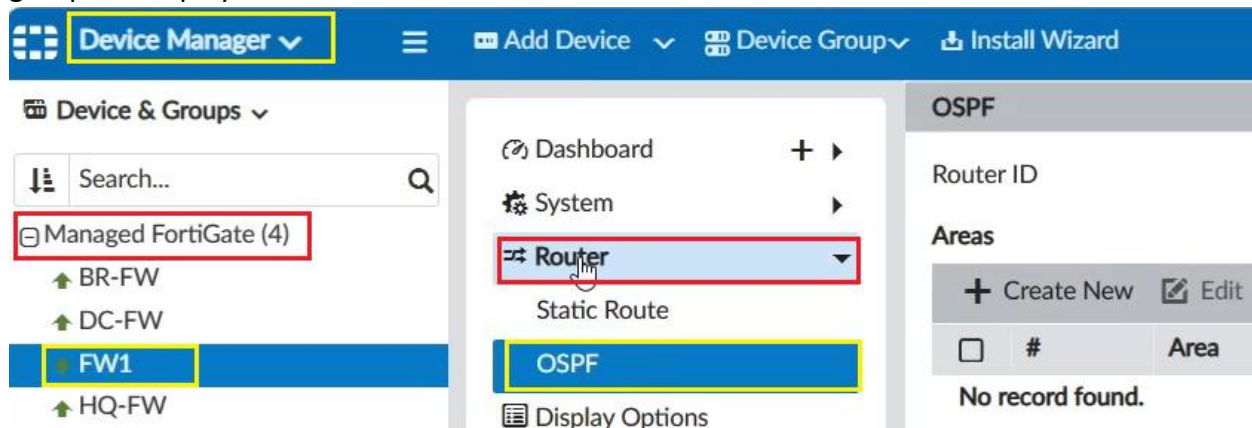
```

Router(config)#hostname R1
R1(config)#interface fastEthernet0/0
R1(config-if)#ip address 10.0.1.100 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#interface Loopback2
R1(config-if)#ip address 2.2.2.2 255.255.255.255
R1(config-if)#exit
R1(config)#interface Loopback4
R1(config-if)#ip address 4.4.4.4 255.255.255.255
R1(config-if)#exit
R1(config)#interface Loopback6
R1(config-if)#ip address 6.6.6.6 255.255.255.255
R1(config-if)#exit
R1(config)#interface Loopback8
R1(config-if)#ip address 8.8.8.8 255.255.255.255
R1(config-if)#exit
    
```

R1 OSPF Configuration

```
R1(config)#router ospf 1
R1(config-router)#router-id 1.1.1.1
R1(config-router)#network 10.0.1.0 0.0.0.255 area 0
R1(config-router)#network 2.2.2.2 0.0.0.0 area 0
R1(config-router)#network 4.4.4.4 0.0.0.0 area 0
R1(config-router)#network 6.6.6.6 0.0.0.0 area 0
R1(config-router)#network 8.8.8.8 0.0.0.0 area 0
```

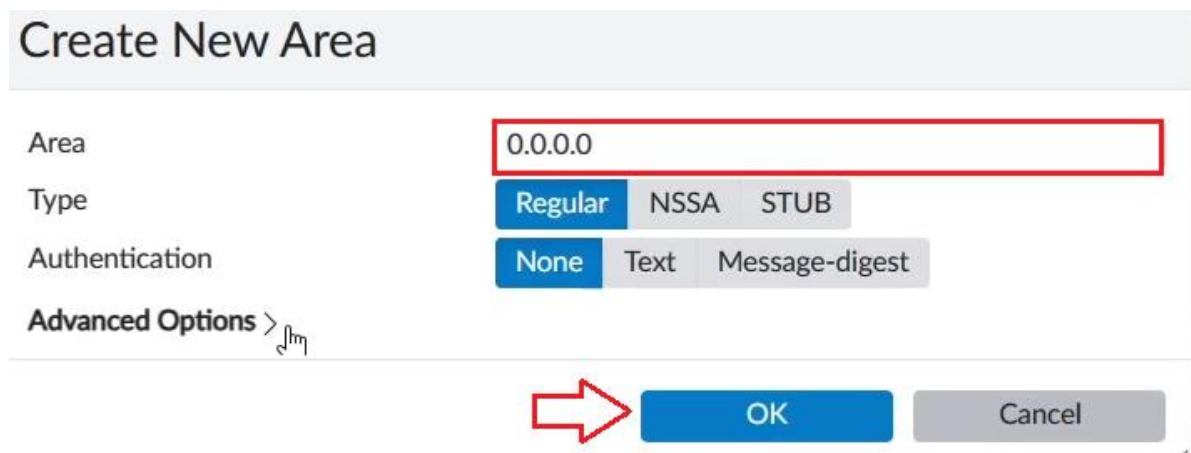
Navigate to **Device Manager > Device & Group > Managed FortiGate** The list of devices in the group are displayed. Click on FW1 **Dashboard > Router > OSPF**



Type the Router ID in this case 2.2.2.2



In Area click on Create New keep the default click **OK**. Area 0.0.0.0 Type Regular and authentication None.



Finally, Area 0.0.0.0 type Regular is created.

Areas

+ Create New Edit Delete Column Settings ▾			
<input type="checkbox"/>	#	Area	Type
<input type="checkbox"/>	1	0.0.0.0	Regular

In the Networks click Create New type IP/Netmask and keep the Area 0.0.0.0 click **OK**

Create New Network

IP/Netmask

Area

Advanced Options >

In the Networks click Create New type IP/Netmask and keep the Area 0.0.0.0 click **OK**

Create New Network

IP/Netmask

Area

Advanced Options >

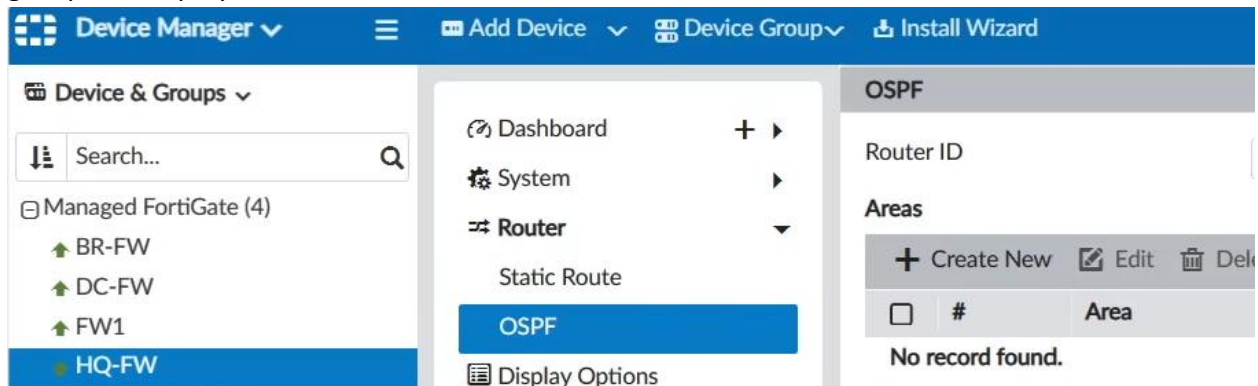
Finally, two networks in area 0.0.0.0 are advertised.

OSPF

Networks

+ Create New Edit Delete Column Settings ▾			
<input type="checkbox"/>	#	Network	Area
<input type="checkbox"/>	1	10.0.1.0/255.255.255.0	0.0.0.0
<input type="checkbox"/>	2	192.168.0.0/255.255.0.0	0.0.0.0

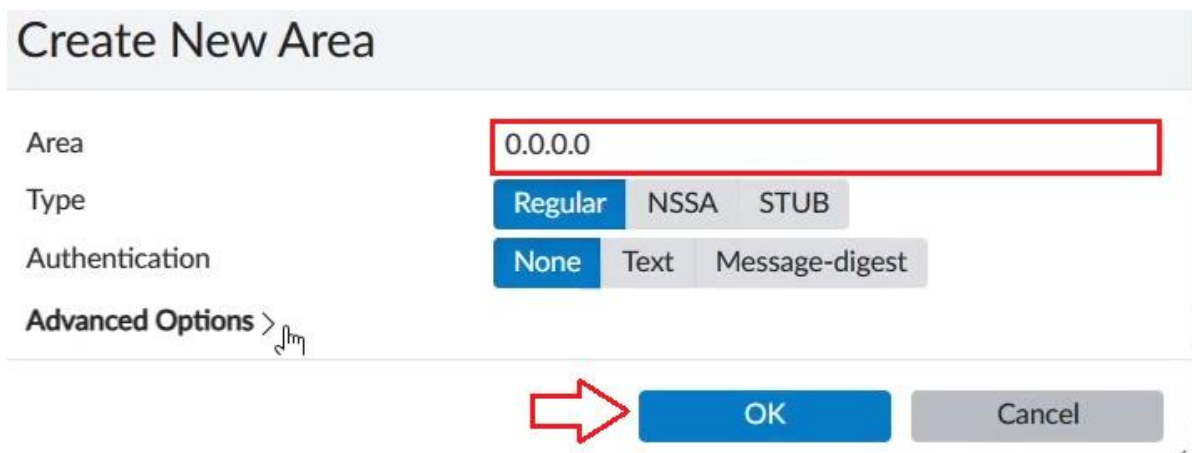
Navigate to **Device Manager > Device & Group > Managed FortiGate** The list of devices in the group are displayed. Click on HQ-FW **Dashboard > Router > OSPF**



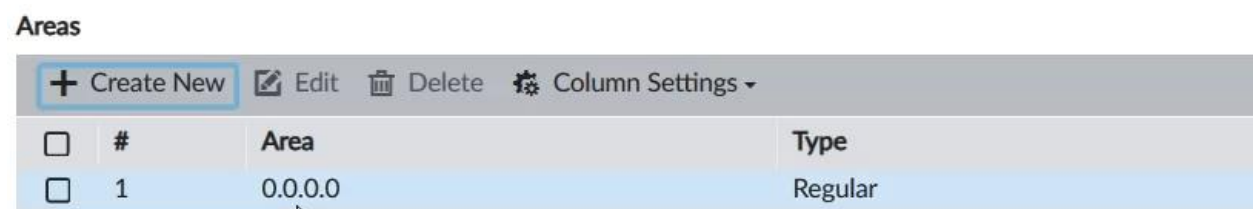
Type the Router ID in this case 3.3.3.3



In Area click on **Create New** keep the default click **OK**. Area 0.0.0.0 Type Regular and authentication None.



Finally, Area 0.0.0.0 type Regular is created.



In the Networks click Create New type IP/Netmask and keep the Area 0.0.0.0 click **OK**

Create New Network

IP/Netmask

Area

Advanced Options >

OK Cancel

In the Networks click Create New type IP/Netmask and keep the Area 0.0.0.0 click **OK**

Create New Network

IP/Netmask

Area

Advanced Options >

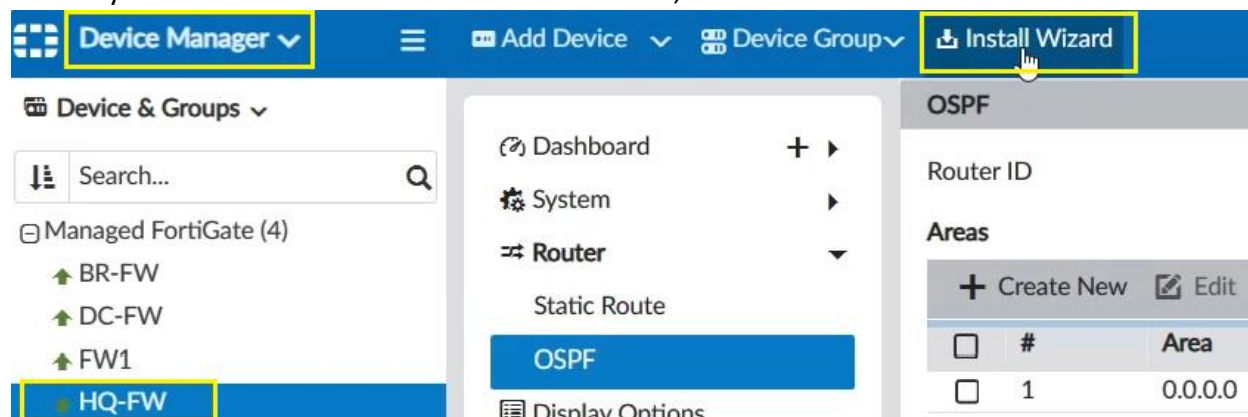
OK Cancel

Finally, two networks in area 0.0.0.0 are advertised.

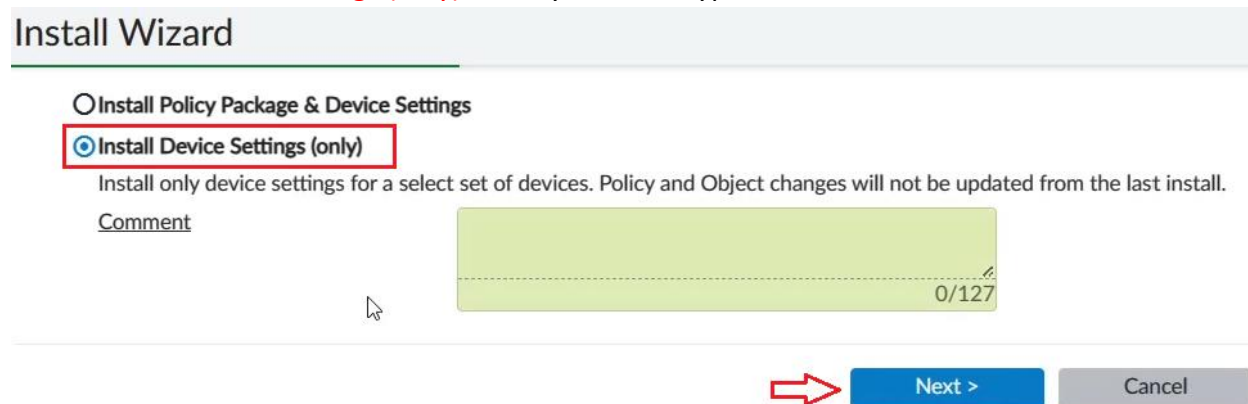
OSPF			
Networks			
<div><div>+ Create New</div><div>Edit</div><div>Delete</div><div>Column Settings</div></div>			
<input type="checkbox"/>	#	Network	Area
<input type="checkbox"/>	1	10.0.1.0/255.255.255.0	0.0.0.0
<input type="checkbox"/>	2	192.168.0.0/255.255.0.0	0.0.0.0

Install Device Settings:

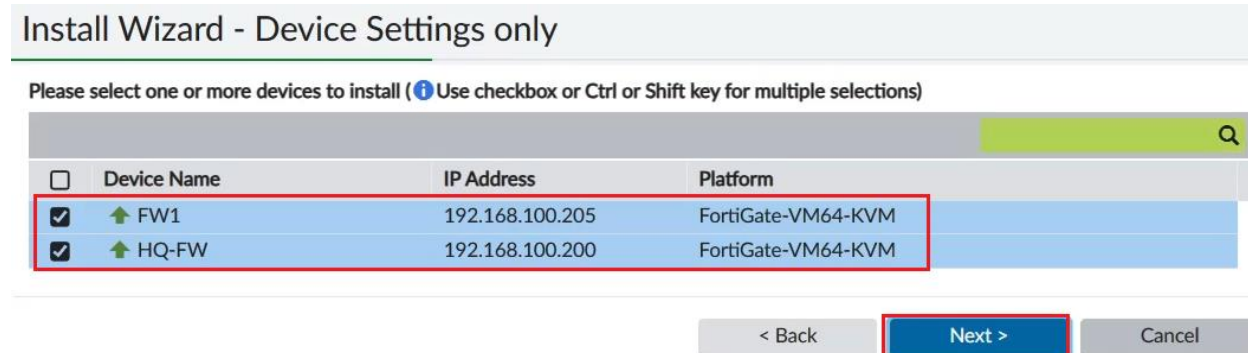
Ensure you are in the correct ADOM. In the toolbar, select **Install Wizard**.



Select **Install Device Settings (only)** and if you want, type a comment. Click **Next**.



In the Device Settings page, select one or more devices to install, and click **Next**.



Click **Install**.

Install Wizard - Device Settings

Only successfully validated device may be installed. Please confirm and click "Install" button to continue.

Install Preview			
<input type="checkbox"/>	Device Name	Status	Action
<input checked="" type="checkbox"/>	FW1	🟢 Connection Up	
<input checked="" type="checkbox"/>	HQ-FW	🟢 Connection Up	



Install Cancel

Click **Finish** to close the wizard.

Install Wizard - Device Settings

🟢 Device Settings is installed successfully.

100%

Total: 4/4, 🟢 Success: 4, 🟡 Warning: 0, 🔴 Error: 0

View Installation Log View Progress Report Column Settings Search...			
#	Name	Time Used	Status
1	FW1	29s	install and save finished status=OK
2	FW1[copy]	27s	Installation to real device done
3	HQ-FW	21s	install and save finished status=OK
4	HQ-FW[copy]	27s	Installation to real device done

Finish

OSPF Verification:

```
HQ-FW # get router info routing-table ospf
Routing table for VRF=0
O      2.2.2.2/32 [110/2] via 10.0.1.100, port3, 00:00:13
O      4.4.4.4/32 [110/2] via 10.0.1.100, port3, 00:00:13
O      6.6.6.6/32 [110/2] via 10.0.1.100, port3, 00:00:13
O      8.8.8.8/32 [110/2] via 10.0.1.100, port3, 00:00:13
```

```
FW1 # get router info routing-table ospf
Routing table for VRF=0
O      2.2.2.2/32 [110/2] via 10.0.1.100, port1, 00:00:56
O      4.4.4.4/32 [110/2] via 10.0.1.100, port1, 00:00:56
O      6.6.6.6/32 [110/2] via 10.0.1.100, port1, 00:00:56
O      8.8.8.8/32 [110/2] via 10.0.1.100, port1, 00:00:56
O      192.168.1.0/24 [110/2] via 10.0.1.254, port1, 00:00:14
O      192.168.2.0/24 [110/2] via 192.168.100.200, port5, 00:00:14
O      192.168.2.0/24 [110/2] via 10.0.1.254, port1, 00:00:14
O      192.168.2.0/24 [110/2] via 192.168.100.200, port5, 00:00:14
```

```
R1#show ip route ospf
O      192.168.1.0/24 [110/11] via 10.0.1.254, 00:01:36, FastEthernet0/0
O      192.168.2.0/24 [110/11] via 10.0.1.254, 00:01:36, FastEthernet0/0
O      192.168.100.0/24 [110/11] via 10.0.1.254, 00:01:36, FastEthernet0/0
O      192.168.100.0/24 [110/11] via 10.0.1.1, 00:00:58, FastEthernet0/0
R1#
```

OSPF Verification Commands

HQ-FW # get router info ospf database brief

HQ-FW # get router info ospf interface

HQ-FW # get router info ospf route

HQ-FW # get router info ospf neighbor

HQ-FW # get router info ospf status

get router info ospf database self-originate

get router info ospf database router lsa