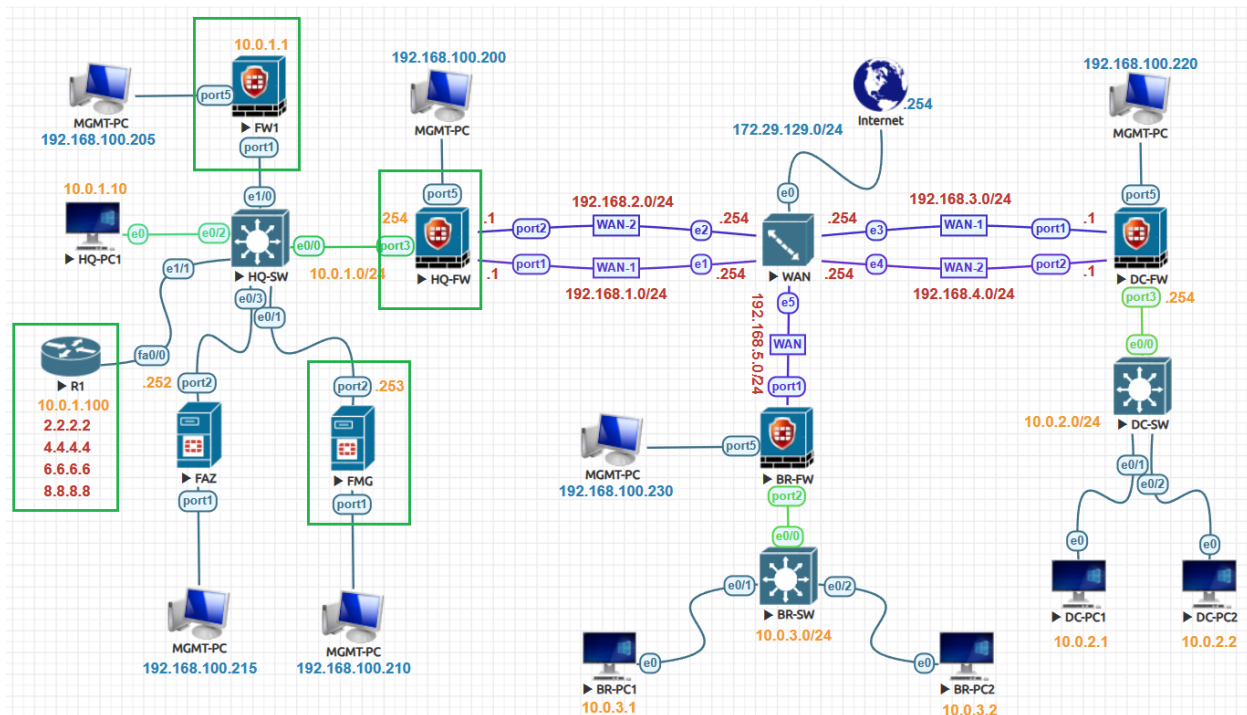


BGP Configuration FortiManager:



R1 Basic Configuration

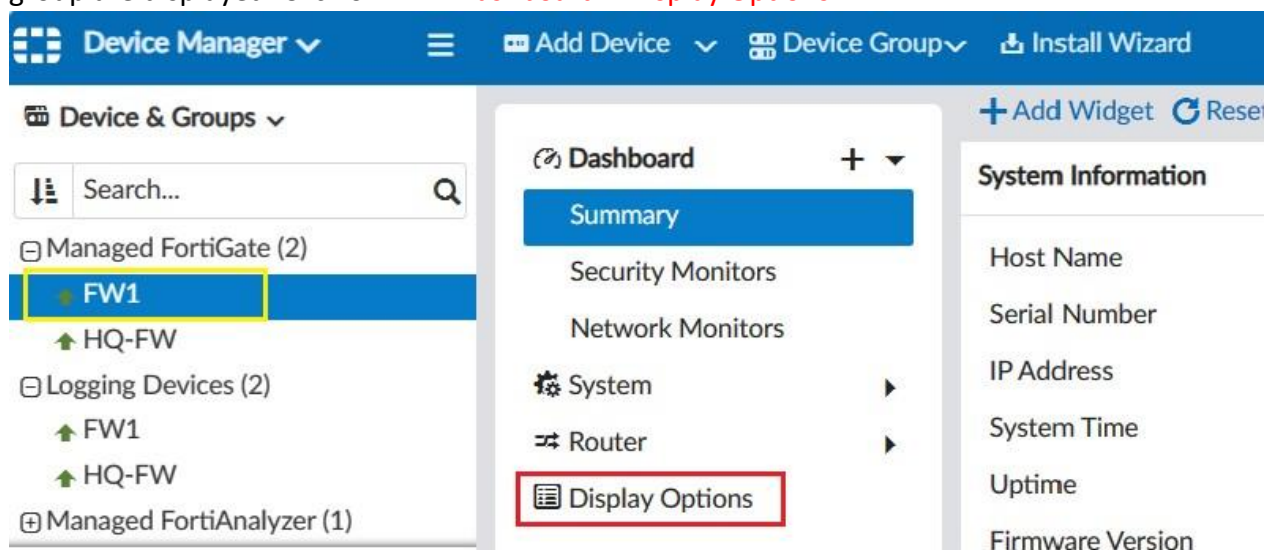
```

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 BGP Configuration

```
R1(config)#router bgp 123
R1(config-router)#neighbor 10.0.1.1 remote-as 123
R1(config-router)#neighbor 10.0.1.254 remote-as 123
R1(config-router)#network 2.2.2.2 mask 255.255.255.255
R1(config-router)#network 4.4.4.4 mask 255.255.255.255
R1(config-router)#network 6.6.6.6 mask 255.255.255.255
R1(config-router)#network 8.8.8.8 mask 255.255.255.255
R1(config-router)#exit
```

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

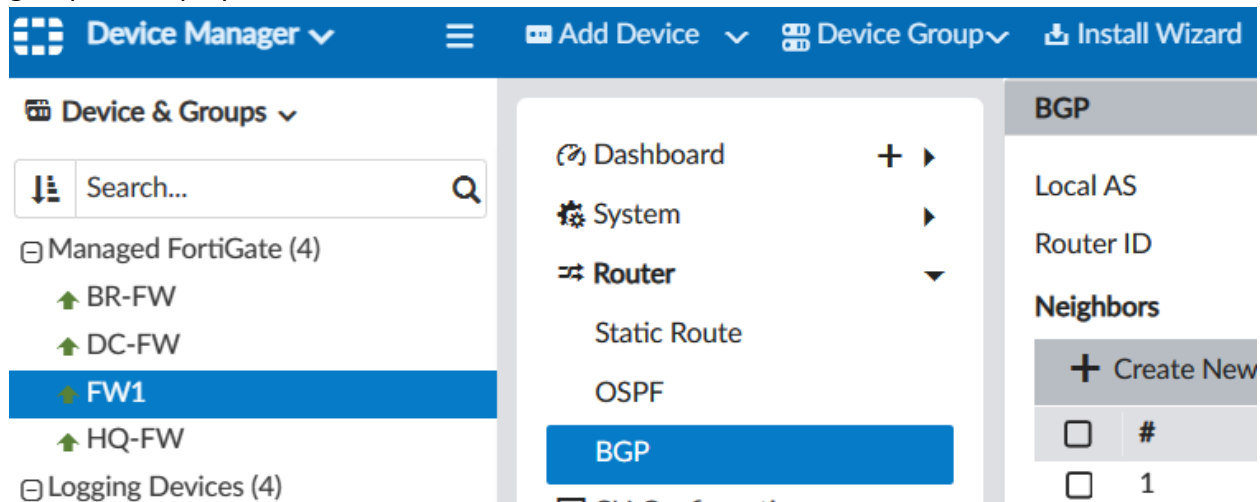


In the **Router** section tick **BGP** click **OK**.

Display Options

<input type="checkbox"/> Global Resources	<input checked="" type="checkbox"/> SD-WAN
<input type="checkbox"/> DHCP Server	<input type="checkbox"/> Modem
<input type="checkbox"/> Sniffer Interface Policy	<input checked="" type="checkbox"/> SNMP
<input type="checkbox"/> DNS	<input type="checkbox"/> DNS Database
<input type="checkbox"/> DNS Service on Interface	<input type="checkbox"/> Explicit Proxy
<input type="checkbox"/> Management	<input type="checkbox"/> Admin Settings
<input type="checkbox"/> Administrators	<input type="checkbox"/> Admin Profile
<input type="checkbox"/> Local Host ID	<input type="checkbox"/> Certificates
<input checked="" type="checkbox"/> Replacement Message	<input type="checkbox"/> Replacement Message Group
<input type="checkbox"/> FortiGuard	<input type="checkbox"/> Security Fabric
<input type="checkbox"/> Automation Stitch	<input type="checkbox"/> Log Setting
<input type="checkbox"/> Alert Email	<input type="checkbox"/> Threat Weight
<input type="checkbox"/> NAT64 Prefix	<input type="checkbox"/> FortiSandbox
<input checked="" type="checkbox"/> Router	<input type="checkbox"/> Policy Route
<input checked="" type="checkbox"/> Static Route	<input checked="" type="checkbox"/> OSPF
<input type="checkbox"/> Gateway Detection	<input type="checkbox"/> BGP
<input type="checkbox"/> RIP	

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



Type the Router ID in this case 2.2.2.2 and Local AS in this case 123

In the Neighbors click on **Create New** Type the IP Address of HQ-FW and remote AS 123

Repeat or clone the neighbor for Cisco Router R1 IP 10.0.1.100 and Remote AS 123.

Neighbors

[+ Create New](#) [Edit](#) [Delete](#) [Column Settings](#)

Clone Neighbor

IP	10.0.1.100
Remote AS	123
Password	
Interface	port1 (WAN-1)
Update Source	any
Graceful Restart Time	0
Activate IPv4	<input checked="" type="checkbox"/>

Finally, both neighbors are created for the same Remote AS 123.

Neighbors

[+ Create New](#) [Edit](#) [Delete](#) [Column Settings](#)

<input type="checkbox"/>	#	Neighbor	Remote AS
<input type="checkbox"/>	1	10.0.1.254	123
<input type="checkbox"/>	2	10.0.1.100	123

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

Device Manager

Device & Groups

Managed FortiGate (4)

- BR-FW
- DC-FW
- FW1
- HQ-FW**

Logging Devices (4)

Dashboard

System

Router

- Static Route
- OSPF
- BGP**

BGP

Local AS

Router ID

Neighbors

+ Create New

<input type="checkbox"/>	#
<input type="checkbox"/>	1

Type the Router ID in this case 3.3.3.3 and Local AS is 123

BGP

Local AS

Router ID

In the Neighbors click on **Create New** Type the IP Address of FW1 and remote AS 123

Neighbors

+ Create New

Create New Neighbor

IP

Remote AS

Password

Interface




Update Source

Graceful Restart Time

Activate IPv4

Repeat or clone the neighbor for Cisco Router R1 IP **10.0.1.100** and Remote AS 123.

Neighbors

+ Create New    Column Settings ▾

Create New Neighbor

IP

Remote AS

Password

Interface




Update Source

Graceful Restart Time

Activate IPv4 ☒

Finally, both neighbors are created for the same Remote AS 123.




Neighbors

+ Create New    Column Settings ▾

<input type="checkbox"/>	#	Neighbor	Remote AS
<input type="checkbox"/>	1	10.0.1.1	123
<input type="checkbox"/>	2	10.0.1.100	123

In the Networks click **Create New** type IP/Netmask click **OK**. Finally, three networks are advertised in the BGP.

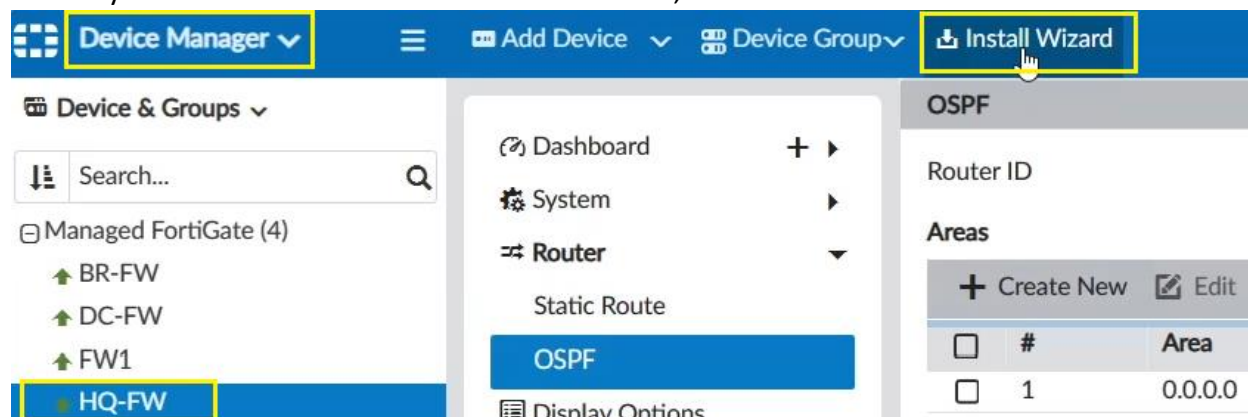
Networks

+ Create New    Column Settings ▾

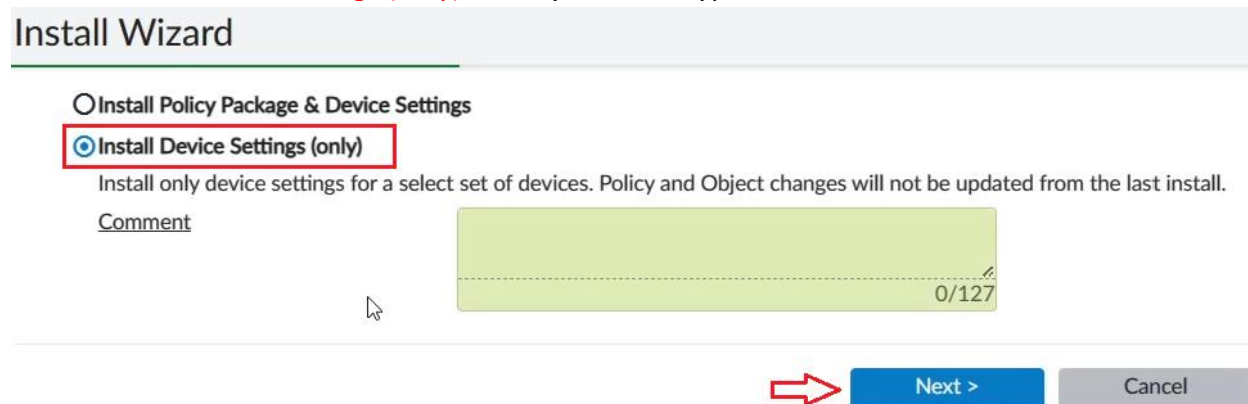
<input type="checkbox"/>	#	IP	Netmask
<input type="checkbox"/>	1	192.168.1.0	255.255.255.0
<input type="checkbox"/>	2	192.168.2.0	255.255.255.0
<input type="checkbox"/>	3	10.0.1.0	255.255.255.0

Install Device Settings:

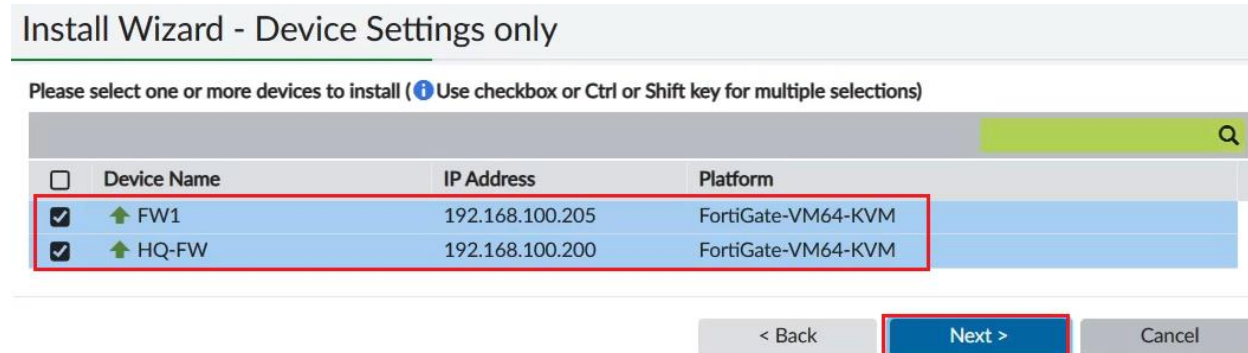
Ensure you are in the correct ADOM. In the toolbar, select **Install Wizard**.



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

BGP Verification:

```
FW1 # get router info routing-table bgp
```

```
Routing table for VRF=0
```

```
B      2.2.2.2/32 [200/0] via 10.0.1.100 (recursive is directly connected, port1), 00:01:38
B      4.4.4.4/32 [200/0] via 10.0.1.100 (recursive is directly connected, port1), 00:01:38
B      6.6.6.6/32 [200/0] via 10.0.1.100 (recursive is directly connected, port1), 00:01:38
B      8.8.8.8/32 [200/0] via 10.0.1.100 (recursive is directly connected, port1), 00:01:38
B     192.168.1.0/24 [200/0] via 10.0.1.254 (recursive is directly connected, port1), 00:01:10
B     192.168.2.0/24 [200/0] via 10.0.1.254 (recursive is directly connected, port1), 00:01:10
```

```
FW1 # get router info bgp summary
```

```
VRF 0 BGP router identifier 2.2.2.2, local AS number 123
```

```
BGP table version is 1
```

```
1 BGP AS-PATH entries
```

```
0 BGP community entries
```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	State/PfxRcd
10.0.1.100	4	123	9	7	0	0	0	00:04:58	4
10.0.1.254	4	123	8	8	0	0	0	00:04:58	3

```
Total number of neighbors 2
```

```
FW1 # get router info bgp network
```

```
VRF 0 BGP table version is 1, local router ID is 2.2.2.2
```

```
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal, S Stale
```

```
Origin codes: i - IGP, e - EGP, ? - incomplete
```

Network	Next Hop	Metric	LocPrf	Weight	RouteTag	Path
*>i2.2.2.2/32	10.0.1.100	0	100	0	0	i <-/-1>
*>i4.4.4.4/32	10.0.1.100	0	100	0	0	i <-/-1>
*>i6.6.6.6/32	10.0.1.100	0	100	0	0	i <-/-1>
*>i8.8.8.8/32	10.0.1.100	0	100	0	0	i <-/-1>
*>i10.0.1.0/24	10.0.1.254	0	100	0	0	i <-/-1>
*>i192.168.1.0	10.0.1.254	0	100	0	0	i <-/-1>
*>i192.168.2.0	10.0.1.254	0	100	0	0	i <-/-1>

```
Total number of prefixes 7
```

OSPF Verification Commands

```
HQ-FW # get router info bgp neighbors
```

```
HQ-FW # get router info bgp summary
```

```
HQ-FW # get router info bgp network
```

```
HQ-FW # get router info routing-table bgp
```

```
FW1 # get router info routing-table bgp
```

0.0.0.0/0	10.0.1.254	WAN-1 (port1)	10	Static
2.2.2.2/32	10.0.1.100	WAN-1 (port1)	200	BGP
4.4.4.4/32	10.0.1.100	WAN-1 (port1)	200	BGP
6.6.6.6/32	10.0.1.100	WAN-1 (port1)	200	BGP
8.8.8.8/32	10.0.1.100	WAN-1 (port1)	200	BGP

Dashboard
Network
Interfaces
DNS
Packet Capture
SD-WAN
Static Routes
Policy Routes
RIP
OSPF
BGP

Local BGP Options

Local AS: 123

Router ID: 2.2.2.2

Neighbors

IP	Remote AS
10.0.1.100	123
10.0.1.254	123

Network	Gateway IP	Interfaces	Distance	
0.0.0.0/0	192.168.1.254	WAN-1 (port1)	10	Static
0.0.0.0/0	192.168.2.254	WAN-2 (port2)	10	Static
2.2.2.2/32	10.0.1.100	LAN (port3)	200	BGP
4.4.4.4/32	10.0.1.100	LAN (port3)	200	BGP
6.6.6.6/32	10.0.1.100	LAN (port3)	200	BGP
8.8.8.8/32	10.0.1.100	LAN (port3)	200	BGP

RIP
OSPF
BGP
Routing Objects
Multicast

Networks

IP/Netmask	192.168.1.0 255.255.255.0	×
	192.168.2.0 255.255.255.0	×
	10.0.1.0 255.255.255.0	×
		+