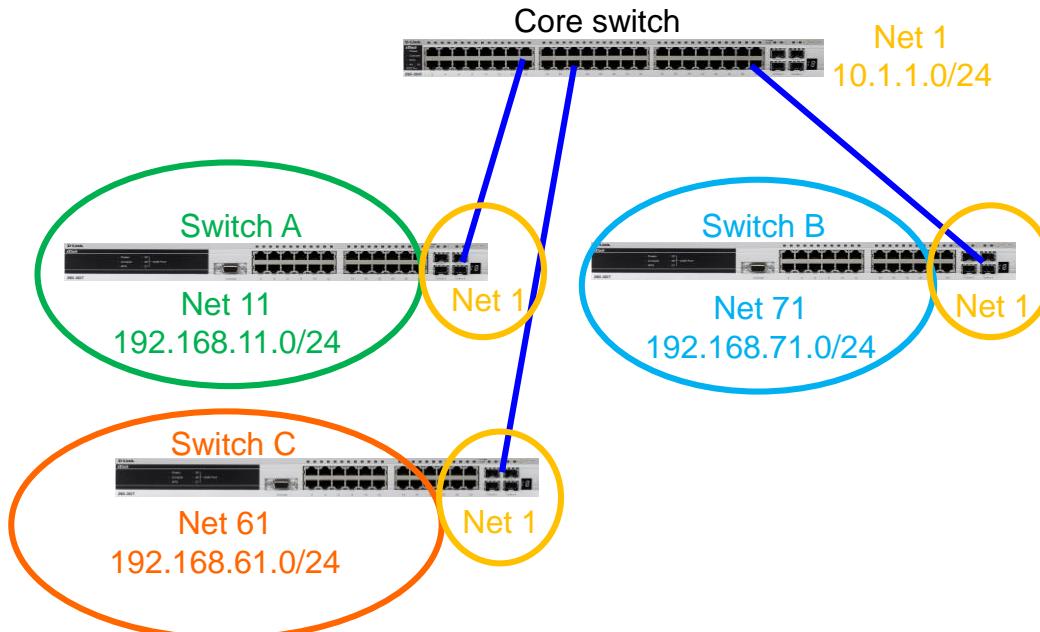


# DGS-3630 Series Switches

## Dynamic Routing – OSPF Setup

# OSPF Setup Example (CLI)



## Switch A Configuration Example

Set router ID and add your networks to the OSPF area 0.

```
Switch(config)#router ospf
Switch(config-router)#router-id 10.1.1.11
Switch(config-router)#network 10.1.1.0 0.0.0.255 area 0.0.0.0
Switch(config-router)#network 192.168.11.0 0.0.0.255 area 0.0.0.0
```

# OSPF Setup Example (CLI)

- Check the routing table and OSPF neighbors.

```
Switch# show ip route
```

```
C 10.1.1.0/24 is directly connected, vlan1
C 192.168.11.0/24 is directly connected, vlan11
O 192.168.61.0/24 [80/2] via 10.1.1.6, vlan1
O 192.168.71.0/24 [80/2] via 10.1.1.7, vlan1
O 192.168.81.0/24 [80/2] via 10.1.1.8, vlan1
O 192.168.91.0/24 [80/2] via 10.1.1.254, vlan1
```

Routes learnt  
dynamically via OSPF

```
Switch# show ip ospf neighbour
```

Neighbor ID	Pri	State	Address	Interface
10.1.1.8	1	Full/DR	10.1.1.8	vlan1
10.1.1.254	1	Full/Backup	10.1.1.254	vlan1

# OSPF Setup Example (GUI)

- L3 Features > OSPF > OSPFv2 > OSPF Interface Settings
- Add OSPF interfaces for each of the local interfaces

The screenshot shows a network configuration interface with a tree-based navigation menu on the left and two main configuration panels on the right.

**Navigation Menu:**

- OSPF
  - OSPFv2
    - OSPFv2 Process Settings
    - OSPFv2 Distribute List
    - OSPFv2 GR Helper Settings
    - OSPFv2 Passive Interface
    - OSPFv2 Area Settings
    - OSPFv2 Interface Settings** (selected)
    - OSPFv2 BFD Settings
    - OSPFv2 Redistribute Settings
    - OSPFv2 Virtual-Link Settings
    - OSPFv2 LSDB Table
    - OSPFv2 Neighbor Table
    - OSPFv2 Host Route Settings
  - OSPFv3

# OSPF Setup Example (GUI)

- L3 Features > OSPF > OSPFv2 > OSPF Process Settings
- Edit the Table entry and set it to Enabled.

## OSPFv2 Process Settings

### OSPF Process Settings

VRF Name

12 chars

Select VRF

Find

Show All

### OSPF Process Table

Total Entries: 1

VRF Name	OSPF State	Router ID	Default Metric	Distance Settings		Default Originate Info			ECMP	
				Type	Distance	State	Originate	Metric		
	Enabled	10.1.1.11	20	Intra-area	80	Disabled	None	1	1	<button>Edit</button> <button>Show Detail</button>

1/1

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1

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Go

### OSPF Process Table

Total Entries: 1

VRF Name	OSPF State	Router ID	Default Metric	Distance Settings		Default Originate Info			ECMP	
				Type	Distance	State	Originate	Metric		
	Enabled	10 . 1 . 1 . 11	20	Intra-Area	80	Disable	None	1	1	<button>Apply</button> <button>Show Detail</button>

# OSPF Setup Example (GUI)

- Check the routing table under L3 Features > IPv4 Route Table.
- The switch will display other networks learned via OSPF.

Fuzzy Search

IPv4 Route Table

IPv4 Route Table

VRF Name: 12 chars

IP Address (selected)

Network Address

RIP OSPF BGP Connected Hardware Summary

Total Entries: 4

IP Address	Mask	Gateway	Interface	Distance/Metric	Protocol	VRF	Candidate Default
10.1.1.0	255.255.255.0	Directly Connected	vlan1		Connected		-
192.168.71.0	255.255.255.0	Directly Connected	vlan71		Connected		-
192.168.81.0	255.255.255.0	10.1.1.8	vlan1	80/2	OSPF		No
192.168.91.0	255.255.255.0	10.1.1.254	vlan1	80/2	OSPF		No