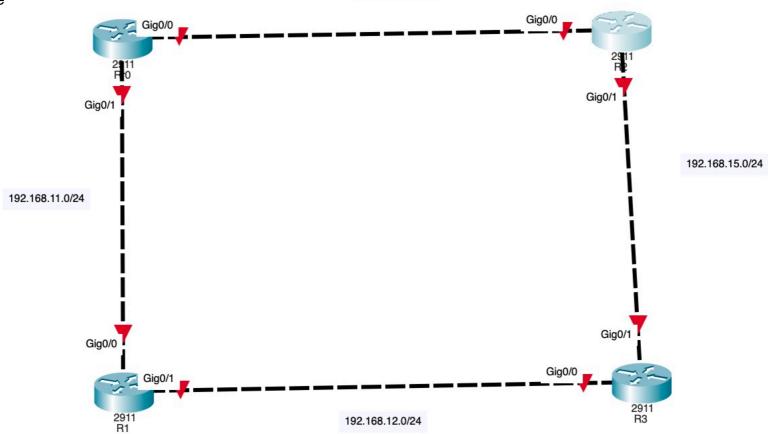
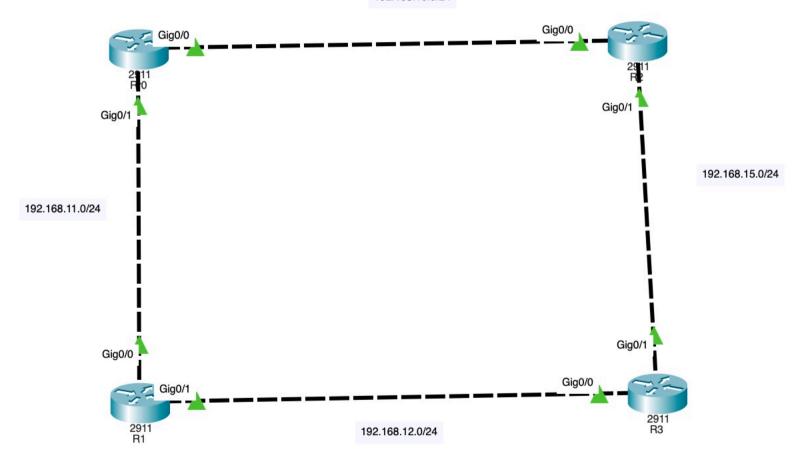
This is what the initial topology looks like without any configuration. The interfaces are shutdown

192.168.10.0/24



192.168.10.0/24



```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface g0/0
Router(config-if) #ip address 192.168.10.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
Router (config-if) #exit
Router (config) #interface g0/1
Router(config-if) #ip address 192.168.11.1 255.255.255.0
Router(config-if) #no shutdown
```

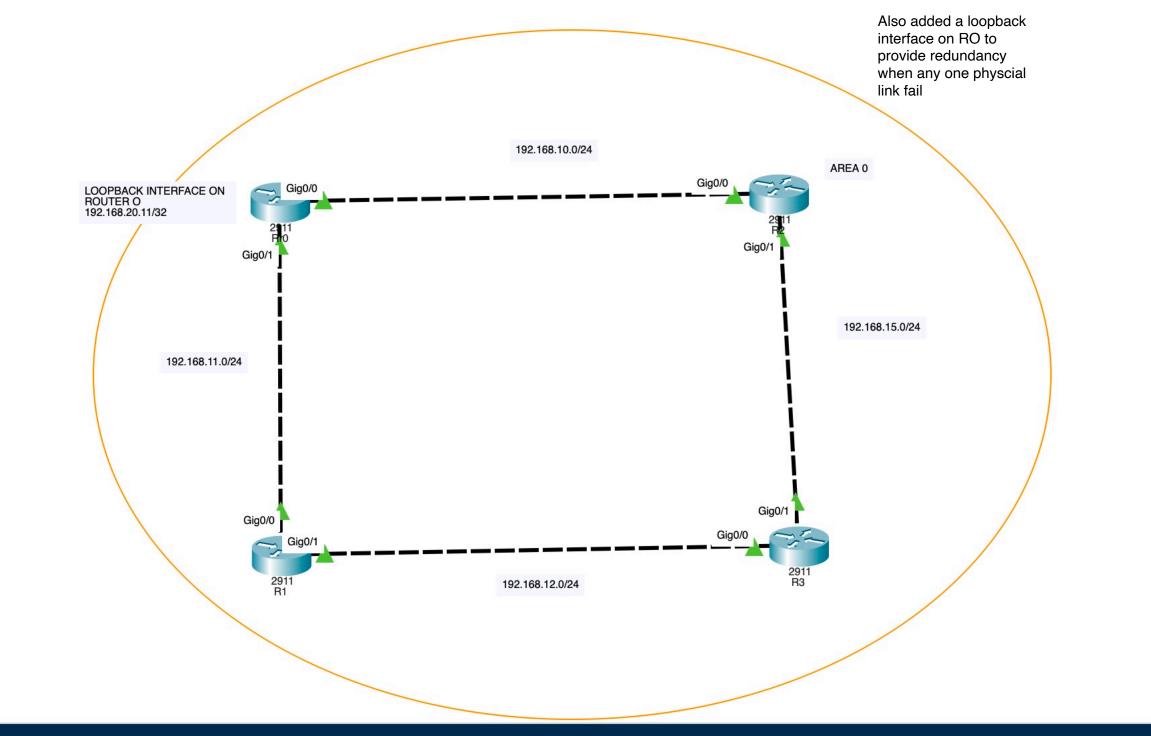
Router>en

Router(config-if)#

These addresses were configured on Router 0

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up



CLI

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The commands to configure ospf on a router. The same were configured on the rest of the routers with their respective ip addresses.

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config) #router ospf 1

Router (config-router) #router-id 4.4.4.4

Router (config-router) #network 192.168.11.0 0.0.0.255 area 0

Router (config-router) #network 192.168

00:25:35: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on GigabitEthernet0/0 from LOADING to FULLnetwork 192.168.

LOADING to FULL network 192.168

% Invalid input detected at '^' marker.

Router(config-router) #network 192.168.12.0 0.0.0.255 area 0

Router(config-router) #do show ip ospf neighb

00:26:10: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on GigabitEthernet0/1 from

LOADING to FULL, Loading Done

Neighbor ID Pri State Dead Time Address Interface 1.1.1.1 1 FULL/DR 00:00:37 192.168.11.1

GigabitEthernet0/0

3.3.3.3 1 FULL/DR 00:00:32 192.168.12.1

GigabitEthernet0/1

Router(config-router)#

R3 Physical Config CLI Attributes IOS Command Line Interface Initially R2 was the DR % Invalid input detected at '^' marker. but later configured R3's priority as the Router (config) #interface gig0/1 highest making it the Router(config-if) #ip address 192.168.15.2 255.255.255.0 Router(config-if) #no shutdown Router(config-if)# 00:35:11: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on GigabitEthernet0/1 from LOADING to FULL, Loading Done Router(config-if) #do show ip ospf neighbor Neighbor ID Pri State Dead Time Address Interface 2.2.2.2 192,168,15,1 1 FULL/DR 00:00:30 GigabitEthernet0/1 4.4.4.4 1 FULL/BDR 00:00:37 192,168,12,2 GigabitEthernet0/0 Router (config-if) #exit Router (config) #interface gig0/1 Router(config-if) #ip ospf priority 255 Router(config-if) #exit Router (config) #exit Router# %SYS-5-CONFIG I: Configured from console by console Router#clear ip ospf process Reset ALL OSPF processes? [no]: yes Router#

00:41:35: %OSPF-5-ADJCHG: Process 1. Nbr 2.2.2.2 on GigabitEthernet0/1 from FULL

00:41:35: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on GigabitEthernet0/1 from FULL

to DOWN, Neighbor Down: Adjacency forced to reset

Physical

Config

CLI

Attributes

IOS Command Line Interface

Router#clear ip ospf process Reset ALL OSPF processes? [no]: yes

Router#

00:48:14: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on GigabitEthernet0/0 from FULL to DOWN, Neighbor Down: Adjacency forced to reset

00:48:14: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on GigabitEthernet0/0 from FULL to DOWN, Neighbor Down: Interface down or detached

00:48:14: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on GigabitEthernet0/1 from FULL to DOWN, Neighbor Down: Adjacency forced to reset

00:48:14: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on GigabitEthernet0/1 from FULL to DOWN, Neighbor Down: Interface down or detached

00:48:21: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on GigabitEthernet0/1 from LOADING to FULL, Loading Done

00:48:24: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on GigabitEthernet0/0 from LOADING to FULL, Loading Done

> Can also confirm from R1 that R3 is the DR

Router#show ip ospf neighbor

Interface Neighbor ID Pri State Dead Time Address 1.1.1.1 192.168.11.1 FULL/DROTHER 00:00:31

GigabitEthernet0/0

3.3.3.3 00:00:37 192.168.12.1 1 FULL/DR

GigabitEthernet0/1

Router#

00:51:30: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on GigabitEthernet0/0 from LOADING to FULL, Loading Done

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