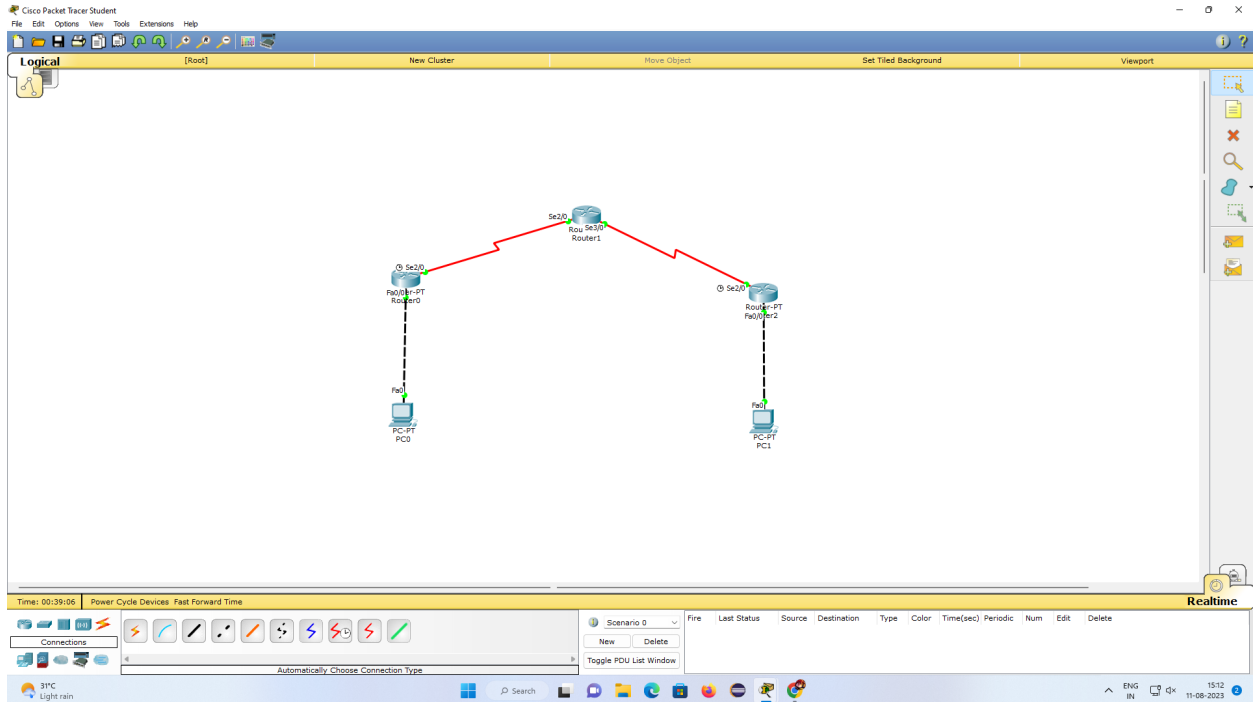


OSPF



Router2

Physical Config CLI

IOS Command Line Interface

```
Router>enable
Router>configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface se2/0
Router(config-if)#interface loopback 0

Router(config-if)#
%LINK-3-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

Router(config-if)#ip add 172.16.1.254 255.255.0.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGMP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, li - IS-IS level-1, ls - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

O IA 20.0.0.0/8 [110/123] via 30.0.0.1, 00:13:09, Serial2/0
O 30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 30.0.0.0/8 is directly connected, Serial2/0
C 30.0.0.1/32 is directly connected, Serial2/0
C 40.0.0.0/8 is directly connected, FastEthernet0/0
C 172.16.0.0/16 is directly connected, Loopback0
Router#show ip route
Codes: C - connected, S - static, I - IGMP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, li - IS-IS level-1, ls - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

O IA 20.0.0.0/8 [110/123] via 30.0.0.1, 00:00:02, Serial2/0
O IA 20.0.0.0/8 [110/123] via 30.0.0.1, 00:17:23, Serial2/0
C 30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 30.0.0.0/8 is directly connected, Serial2/0
C 30.0.0.1/32 is directly connected, Serial2/0
C 40.0.0.0/8 is directly connected, FastEthernet0/0
C 172.16.0.0/16 is directly connected, Loopback0
Router#
```

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Router0

PhysicalConfigCLI

IOS Command Line Interface

```
!LINEPROTO-5-UPDOWN: Interface Serial12/0, changed state to down
Router(config-if)#exit
Router(config)#
!LINEPROTO-5-UPDOWN: Interface Serial12/0, changed state to up

!LINEPROTO-5-UPDOWN: Line protocol on Interface Serial12/0, changed state to up

Router(config)#router ospf 1
Router(config-router)#router-id 1.1.1.1
Router(config-router)#network 10.0.0.0 0.255.255.255 area 3
Router(config-router)#network 20.0.0.0 0.255.255.255 area 1
Router(config-router)#exit
Router(config)#
00:10:56: %OSPF-5-ADJCHG: Process 1, Hdr 2.2.2.2 on Serial12/0 from LOADING to FULL, Loading Done

Router(config)#exit
Router#
!SYS-5-CONFIG_1: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGMP, B - BGP, H - mobile, * - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, S - SUP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

C 10.0.0.0/8 is directly connected, FastEthernet0/0
20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 20.0.0.0/8 is directly connected, Serial12/0
C 20.0.0.2/32 is directly connected, Serial12/0
O IA 30.0.0.0/8 [110/120] via 20.0.0.2, 00:00:19, Serial12/0
O IA 40.0.0.0/8 [110/120] via 20.0.0.2, 00:00:19, Serial12/0
Router(config)#terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface se2/0
-
! Invalid input detected at '^' marker.
Router(config)#interface se2/0
Router(config-if)#interface loopback 0
Router(config-if)#
!LINEPROTO-5-UPDOWN: Interface Loopback0, changed state to up
!LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

Router(config-if)#ip add 172.16.1.252 255.255.0.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config-router)#area 1 virtual-link 2.2.2.2
Router(config-router)#area 1 virtual-link 2.2.2.2
! Invalid input detected at '^' marker.
Router(config-router)#area 1 virtual-link 2.2.2.2
Router(config-router)#
00:10:57: %OSPF-5-ADJCHG: Process 1, Hdr 2.2.2.2 on OSPF_VL0 from LOADING to FULL, Loading Done
```

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Router1

PhysicalConfigCLI

IOS Command Line Interface

```
!LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router(config)#router ospf 1
Router(config-router)#router-id 2.2.2.2
Router(config-router)#network 20.0.0.0 0.255.255.255 area 1
Router(config-router)#network 30.0.0.0 0.255.255.255 area 1
00:10:58: %OSPF-5-ADJCHG: Process 1, Hdr 1.1.1.1 on Serial3/exit
Router(config)#router ospf 1
Router(config-router)#router-id 2.2.2.2
Router(config-router)#network 20.0.0.0 0.255.255.255 area 1
Router(config-router)#network 30.0.0.0 0.255.255.255 area 3
Router(config-router)#exit
Router(config)#
00:11:24: %OSPF-5-ADJCHG: Process 1, Hdr 3.3.3.3 on Serial3/0 from LOADING to FULL, Loading Done

Router(config)#interface se2/0
Router(config-if)#interface loopback 0
Router(config-if)#

Router(config-if)#
!LINEPROTO-5-UPDOWN: Interface Loopback0, changed state to up
!LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

Router(config-if)#ip add 172.16.1.253 255.255.0.0
Router(config-if)#no shut
Router(config-if)#
00:17:35: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
00:27:45: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
00:27:55: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0

Router(config-if)#exit
Router(config)#ospf
00:18:06: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial
Router(config-router)#ospf 1
Router(config-router)#
00:18:15: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
00:18:25: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
!
! Ambiguous command: "a"
Router(config-router)#
00:18:38: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
area 1 virtual-link
00:18:45: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from
Router(config-router)#area
00:18:55: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial
Router(config-router)#area 1 virtual-l
00:19:05: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone area must be virtual-link but not found from 20.0.0.2, Serial12/0
nk 1.1.1.1
Router(config-router)#exit
! Invalid input detected at '^' marker.

Router(config-router)#exit
00:19:15: %OSPF-5-ADJCHG: Process 1, Hdr 1.1.1.1 on OSPF_VL0 from LOADING to FULL, Loading exit
Router(config)#exit
Router#
!SYS-5-CONFIG_1: Configured from console by console

Router#
```

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