Default Routing Lab Task

Maimoona Khilji

Institute of Management Science

Course Code: Data Communication and Computer Networking

Muhammad Saad Rashad

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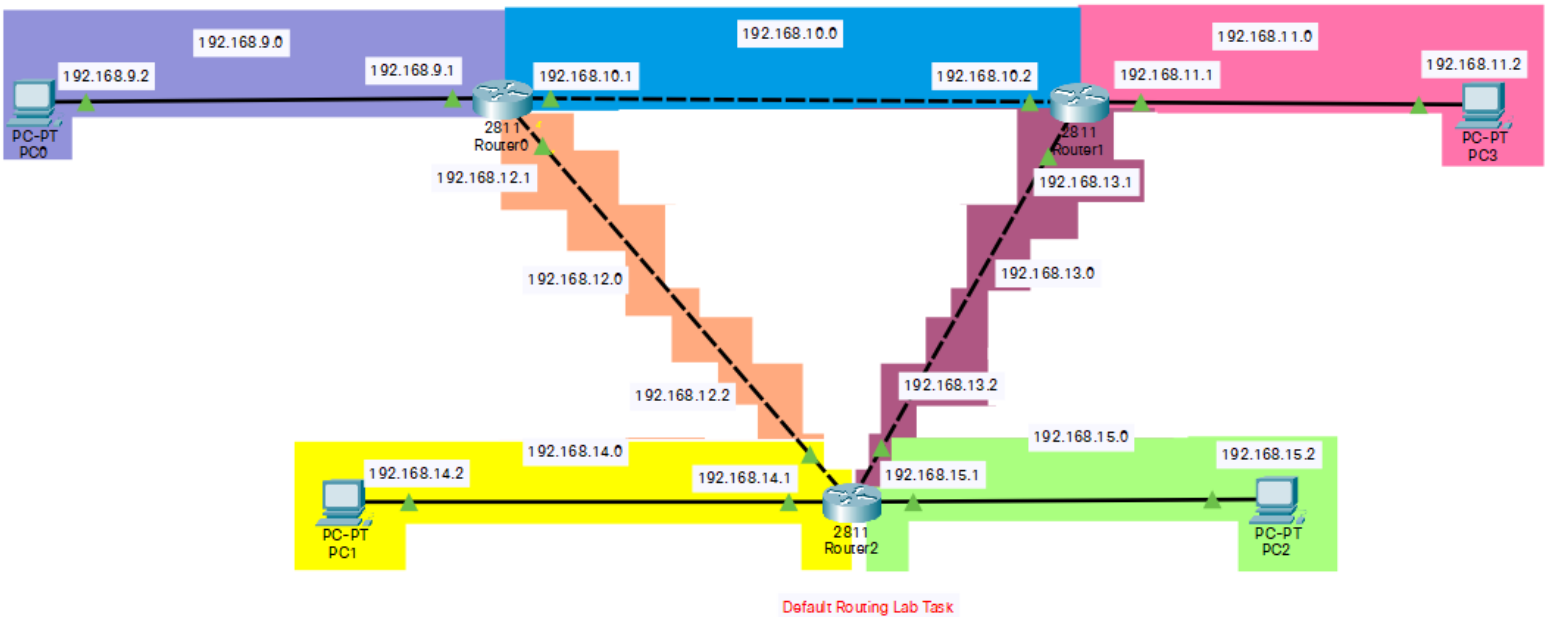

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#show ip route
Codes: L - local, C - connected, S - static, 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, 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 192.168.12.2 to network 0.0.0.0

     192.168.9.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.9.0/24 is directly connected, FastEthernet0/0
L       192.168.9.1/32 is directly connected, FastEthernet0/0
     192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.10.0/24 is directly connected, FastEthernet0/1
L       192.168.10.1/32 is directly connected, FastEthernet0/1
     192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, FastEthernet1/0
L       192.168.12.1/32 is directly connected, FastEthernet1/0
S*   0.0.0.0/0 [1/0] via 192.168.12.2
                [1/0] via 192.168.10.2
```

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#show ip route
Codes: L - local, C - connected, S - static, 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, 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 192.168.13.2 to network 0.0.0.0

     192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.10.0/24 is directly connected, FastEthernet0/1
L       192.168.10.2/32 is directly connected, FastEthernet0/1
     192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.11.0/24 is directly connected, FastEthernet0/0
L       192.168.11.1/32 is directly connected, FastEthernet0/0
     192.168.13.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.13.0/24 is directly connected, FastEthernet1/0
L       192.168.13.1/32 is directly connected, FastEthernet1/0
S*   0.0.0.0/0 [1/0] via 192.168.13.2
               [1/0] via 192.168.10.1
```

Router2

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#show ip route
Codes: L - local, C - connected, S - static, 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, 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 192.168.13.1 to network 0.0.0.0

     192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, FastEthernet1/0
L       192.168.12.2/32 is directly connected, FastEthernet1/0
     192.168.13.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.13.0/24 is directly connected, FastEthernet1/1
L       192.168.13.2/32 is directly connected, FastEthernet1/1
     192.168.14.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.14.0/24 is directly connected, FastEthernet0/0
L       192.168.14.1/32 is directly connected, FastEthernet0/0
     192.168.15.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.15.0/24 is directly connected, FastEthernet0/1
L       192.168.15.1/32 is directly connected, FastEthernet0/1
S*   0.0.0.0/0 [1/0] via 192.168.13.1
               [1/0] via 192.168.12.1
```

Ping from PC2 (192.168.15.2) to PC0 (192.168.9.2)