

Default Routing Lab Task

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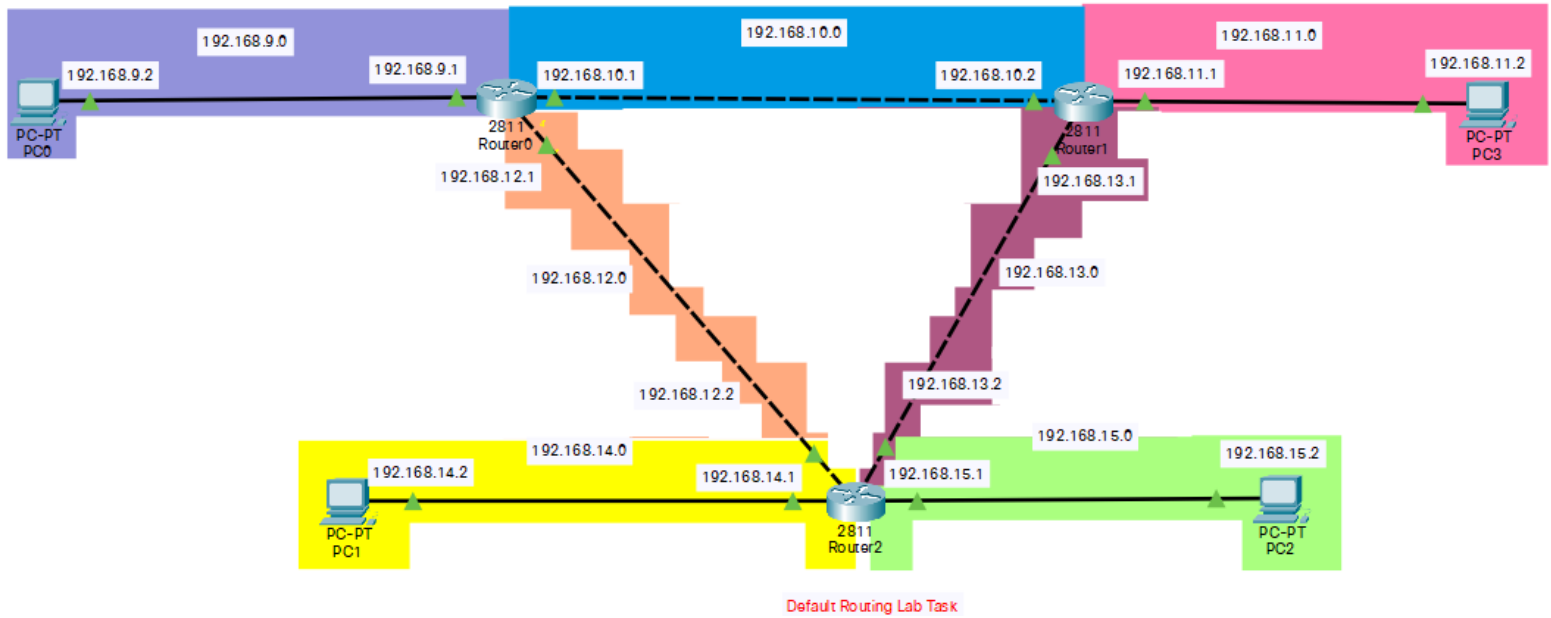
Institute of Management Science

Course Code: Data Communication and Computer Networking

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Default Routing Lab Task



```
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

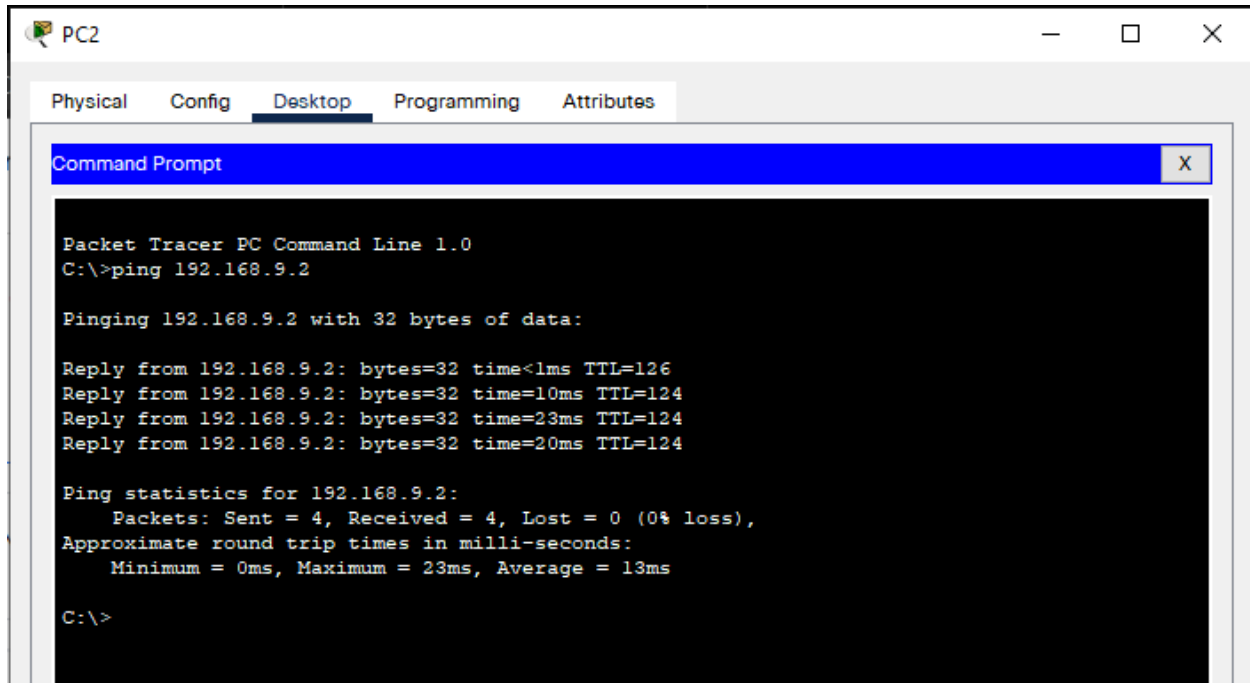
IOS Command Line Interface

```
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)



The screenshot shows a Packet Tracer PC Command Line window for PC2. The window has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, and a Command Prompt window is open. The Command Prompt shows the following text:

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.9.2

Pinging 192.168.9.2 with 32 bytes of data:

Reply from 192.168.9.2: bytes=32 time<1ms TTL=126
Reply from 192.168.9.2: bytes=32 time=10ms TTL=124
Reply from 192.168.9.2: bytes=32 time=23ms TTL=124
Reply from 192.168.9.2: bytes=32 time=20ms TTL=124

Ping statistics for 192.168.9.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 23ms, Average = 13ms

C:\>
```

Below the screenshot, there is a dashed line consisting of 25 dashes.