**PCA:**

**Cisco Packet Tracer PC Command Line 1.0**

**C:\>tracert 198.0.0.10**

**Tracing route to 198.0.0.10 over a maximum of 30 hops:**

**1 0 ms 0 ms 1 ms 192.168.10.1**

**2 1 ms 3 ms 1 ms 10.10.10.1**

**3 \* 5 ms 1 ms 198.0.0.10**

**Trace complete.**

**C:\>tracert 198.0.0.10**

**Tracing route to 198.0.0.10 over a maximum of 30 hops:**

**1 0 ms 0 ms 0 ms 192.168.10.1**

**2 1 ms 1 ms 1 ms 10.10.10.5**

**3 \* \* 11 ms 198.0.0.10**

**Trace complete.**

**C:\>tracert 198.0.0.10**

**Tracing route to 198.0.0.10 over a maximum of 30 hops:**

**1 0 ms 0 ms 1 ms 192.168.10.1**

**2 3 ms 0 ms 0 ms 10.10.10.1**

**3 0 ms 10 ms 0 ms 198.0.0.10**

**Trace complete.**

**C:\>tracert 2001:DB8:F:F::10**

**Tracing route to 2001:DB8:F:F::10 over a maximum of 30 hops:**

**1 0 ms 0 ms 0 ms 2001:DB8:1:10::1**

**2 3 ms 0 ms 0 ms 2001:DB8:A:1::1**

**3 11 ms 1 ms 2 ms 2001:DB8:F:F::10**

**Trace complete.**

**C:\>tracert 2001:DB8:F:F::10**

**Tracing route to 2001:DB8:F:F::10 over a maximum of 30 hops:**

**1 0 ms 0 ms 0 ms 2001:DB8:1:10::1**

**2 4 ms 1 ms 0 ms 2001:DB8:A:2::1**

**3 10 ms 0 ms 1 ms 2001:DB8:F:F::10**

**Trace complete.**

**C:\>conf t**

**Invalid Command.**

**C:\>int s0/0/0**

**Invalid Command.**

**C:\>no shut**

**Invalid Command.**

**C:\>**

**Edge\_Router:**

%LINK-5-CHANGED: Interface Serial0/0/1, 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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Edge\_Router>en

Edge\_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 not set

10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks

C 10.10.10.0/30 is directly connected, Serial0/0/0

L 10.10.10.2/32 is directly connected, Serial0/0/0

C 10.10.10.4/30 is directly connected, Serial0/0/1

L 10.10.10.6/32 is directly connected, Serial0/0/1

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.0/24 is directly connected, GigabitEthernet0/0

L 192.168.10.1/32 is directly connected, GigabitEthernet0/0

192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.11.0/24 is directly connected, GigabitEthernet0/1

L 192.168.11.1/32 is directly connected, GigabitEthernet0/1

Edge\_Router#conf t

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

Edge\_Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0

%Default route without gateway, if not a point-to-point interface, may impact performance

Edge\_Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1 5

Edge\_Router(config)#exit

Edge\_Router#

%SYS-5-CONFIG\_I: Configured from console by console

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 0.0.0.0 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks

C 10.10.10.0/30 is directly connected, Serial0/0/0

L 10.10.10.2/32 is directly connected, Serial0/0/0

C 10.10.10.4/30 is directly connected, Serial0/0/1

L 10.10.10.6/32 is directly connected, Serial0/0/1

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.0/24 is directly connected, GigabitEthernet0/0

L 192.168.10.1/32 is directly connected, GigabitEthernet0/0

192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.11.0/24 is directly connected, GigabitEthernet0/1

L 192.168.11.1/32 is directly connected, GigabitEthernet0/1

S\* 0.0.0.0/0 is directly connected, Serial0/0/0

Edge\_Router#conf t

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

Edge\_Router(config)#int s0/0/0

Edge\_Router(config-if)#shutdown

Edge\_Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to down

Edge\_Router(config-if)#exit

Edge\_Router(config)#exit

Edge\_Router#

%SYS-5-CONFIG\_I: Configured from console by console

Edge\_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 0.0.0.0 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 10.10.10.4/30 is directly connected, Serial0/0/1

L 10.10.10.6/32 is directly connected, Serial0/0/1

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.0/24 is directly connected, GigabitEthernet0/0

L 192.168.10.1/32 is directly connected, GigabitEthernet0/0

192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.11.0/24 is directly connected, GigabitEthernet0/1

L 192.168.11.1/32 is directly connected, GigabitEthernet0/1

S\* 0.0.0.0/0 is directly connected, Serial0/0/1

Edge\_Router#conf t

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

Edge\_Router(config)#int s0/0/0

Edge\_Router(config-if)#no shutdown

Edge\_Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

exit

Edge\_Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

exit

Edge\_Router#

%SYS-5-CONFIG\_I: Configured from console by console

Edge\_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 0.0.0.0 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks

C 10.10.10.0/30 is directly connected, Serial0/0/0

L 10.10.10.2/32 is directly connected, Serial0/0/0

C 10.10.10.4/30 is directly connected, Serial0/0/1

L 10.10.10.6/32 is directly connected, Serial0/0/1

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.0/24 is directly connected, GigabitEthernet0/0

L 192.168.10.1/32 is directly connected, GigabitEthernet0/0

192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.11.0/24 is directly connected, GigabitEthernet0/1

L 192.168.11.1/32 is directly connected, GigabitEthernet0/1

S\* 0.0.0.0/0 is directly connected, Serial0/0/0

Edge\_Router#conf t

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

Edge\_Router(config)#ipv6 route ::/0 2001:DB8:A:2::1 5

Edge\_Router(config)#exit

Edge\_Router#

%SYS-5-CONFIG\_I: Configured from console by console

Edge\_Router#sh run

Building configuration...

Current configuration : 1198 bytes

!

version 15.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Edge\_Router

!

!

!

!

!

!

!

!

ip cef

ipv6 unicast-routing

!

no ipv6 cef

!

!

!

Edge\_Router#conf t

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

Edge\_Router(config)#int s0/0/0

Edge\_Router(config-if)#shutdown

Edge\_Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to down

Edge\_Router(config-if)#conf t

%Invalid hex value

Edge\_Router(config)#conf t

%Invalid hex value

Edge\_Router(config)#int s0/0/0

Edge\_Router(config-if)#int s0/0/0

Edge\_Router(config-if)#no shut

Edge\_Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up