PC1

Packet Tracer PC Command Line 1.0

C:\>ping 172.31.0.254

Pinging 172.31.0.254 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 172.31.0.254:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.31.0.254

Pinging 172.31.0.254 with 32 bytes of data:

Reply from 172.31.0.254: bytes=32 time=2ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Ping statistics for 172.31.0.254:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>ping 172.31.0.254

Pinging 172.31.0.254 with 32 bytes of data:

Reply from 172.31.0.254: bytes=32 time=26ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Ping statistics for 172.31.0.254:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 26ms, Average = 7ms

C:\>ping 172.31.1.190

Pinging 172.31.1.190 with 32 bytes of data:

Request timed out.

Reply from 172.31.1.190: bytes=32 time=7ms TTL=125

Reply from 172.31.1.190: bytes=32 time=3ms TTL=125

Reply from 172.31.1.190: bytes=32 time=2ms TTL=125

Ping statistics for 172.31.1.190:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 7ms, Average = 4ms

C:\>ping 172.31.1.190

Pinging 172.31.1.190 with 32 bytes of data:

Reply from 172.31.1.190: bytes=32 time=12ms TTL=125

Reply from 172.31.1.190: bytes=32 time=2ms TTL=125

Reply from 172.31.1.190: bytes=32 time=2ms TTL=125

Reply from 172.31.1.190: bytes=32 time=2ms TTL=125

Ping statistics for 172.31.1.190:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 12ms, Average = 4ms

PC2

Packet Tracer PC Command Line 1.0

C:\>ping 172.31.0.254

Pinging 172.31.0.254 with 32 bytes of data:

Reply from 172.31.0.254: bytes=32 time=18ms TTL=128

Reply from 172.31.0.254: bytes=32 time=6ms TTL=128

Reply from 172.31.0.254: bytes=32 time=19ms TTL=128

Reply from 172.31.0.254: bytes=32 time=7ms TTL=128

Ping statistics for 172.31.0.254:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 6ms, Maximum = 19ms, Average = 12ms

C:\>ping 172.31.1.126

Pinging 172.31.1.126 with 32 bytes of data:

Reply from 172.31.1.126: bytes=32 time=1ms TTL=126

Reply from 172.31.1.126: bytes=32 time=5ms TTL=126

Reply from 172.31.1.126: bytes=32 time=1ms TTL=126

Reply from 172.31.1.126: bytes=32 time=1ms TTL=126

Ping statistics for 172.31.1.126:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 5ms, Average = 2ms

C:\>ping 172.31.1.190

Pinging 172.31.1.190 with 32 bytes of data:

Reply from 172.31.1.190: bytes=32 time=9ms TTL=126

Reply from 172.31.1.190: bytes=32 time=11ms TTL=126

Reply from 172.31.1.190: bytes=32 time=1ms TTL=126

Reply from 172.31.1.190: bytes=32 time=14ms TTL=126

Ping statistics for 172.31.1.190:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 14ms, Average = 8ms

PC3

Packet Tracer PC Command Line 1.0

C:\>ping 172.31.1.126

Pinging 172.31.1.126 with 32 bytes of data:

Reply from 172.31.1.126: bytes=32 time=3ms TTL=125

Reply from 172.31.1.126: bytes=32 time=2ms TTL=125

Reply from 172.31.1.126: bytes=32 time=12ms TTL=125

Reply from 172.31.1.126: bytes=32 time=2ms TTL=125

Ping statistics for 172.31.1.126:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 12ms, Average = 4ms

C:\>ping 172.31.0.254

Pinging 172.31.0.254 with 32 bytes of data:

Reply from 172.31.0.254: bytes=32 time=4ms TTL=126

Reply from 172.31.0.254: bytes=32 time=2ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Reply from 172.31.0.254: bytes=32 time=1ms TTL=126

Ping statistics for 172.31.0.254:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 4ms, Average = 2ms

R1

R1>en

R1#conf t

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

R1(config)#ip route 172.31.0.0 255.255.255.0 172.31.1.193

R1(config)#ip route 172.31.1.196 255.255.255.252 172.31.1.193

R1(config)#ip route 172.31.1.128 255.255.255.192 172.31.1.193

R1(config)#

R2

R2>en

R2#conf t

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

R2(config)#ip route 172.31.1.0 255.255.255.128 s0/0/0

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

R2(config)#ip route 172.31.1.0 255.255.255.128 S0/0/0

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

R2(config)#ip route 172.31.1.128 255.255.255.192 S0/0/1

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

R2(config)#show ip

^

% Invalid input detected at '^' marker.

R2(config)#show ip ro

R2(config)#show ip route

R2(config)#show ip route connected

^

% Invalid input detected at '^' marker.

R2(config)#exit

R2#

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

R2#show ip

R2#show ip route

R2#show ip route connected

C 172.31.0.0/24 is directly connected, GigabitEthernet0/0

C 172.31.1.192/30 is directly connected, Serial0/0/0

C 172.31.1.196/30 is directly connected, Serial0/0/1

R2#show ip route

R2#show ip route static

172.31.0.0/16 is variably subnetted, 8 subnets, 5 masks

S 172.31.1.0/25 is directly connected, Serial0/0/0

S 172.31.1.128/26 is directly connected, Serial0/0/1

R3

R3>en

R3#conf t

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

R3(config)#ip route 0.0.0.0 0.0.0.0 S0/0/1

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

R3(config)#exit

R3#

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

R3#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

172.31.0.0/16 is variably subnetted, 4 subnets, 3 masks

C 172.31.1.128/26 is directly connected, GigabitEthernet0/0

L 172.31.1.129/32 is directly connected, GigabitEthernet0/0

C 172.31.1.196/30 is directly connected, Serial0/0/1

L 172.31.1.198/32 is directly connected, Serial0/0/1

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

R3#

R3#