PC 1:

Packet Tracer PC Command Line 1.0

C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix..:

Physical Address................: 0060.47CA.4DEE

Link-local IPv6 Address.........: FE80::260:47FF:FECA:4DEE

IPv6 Address....................: ::

IPv4 Address....................: 10.10.1.98

Subnet Mask.....................: 255.255.255.224

Default Gateway.................: ::

10.10.1.97

DHCP Servers....................: 0.0.0.0

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-B2-33-AD-8B-00-60-47-CA-4D-EE

DNS Servers.....................: ::

0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix..:

Physical Address................: 000C.8599.E691

Link-local IPv6 Address.........: ::

IPv6 Address....................: ::

IPv4 Address....................: 0.0.0.0

Subnet Mask.....................: 0.0.0.0

Default Gateway.................: ::

0.0.0.0

DHCP Servers....................: 0.0.0.0

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-B2-33-AD-8B-00-60-47-CA-4D-EE

DNS Servers.....................: ::

0.0.0.0

C:\>ping 10.10.1.18

Pinging 10.10.1.18 with 32 bytes of data:

Reply from 10.10.1.97: Destination host unreachable.

Reply from 10.10.1.97: Destination host unreachable.

Reply from 10.10.1.97: Destination host unreachable.

Reply from 10.10.1.97: Destination host unreachable.

Ping statistics for 10.10.1.18:

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

C:\>tracert 10.10.1.18

Tracing route to 10.10.1.18 over a maximum of 30 hops:

1 1 ms 0 ms 0 ms 10.10.1.97

2 1 ms \* 1 ms 10.10.1.97

3 \* 0 ms \* Request timed out.

4 0 ms \* 0 ms 10.10.1.97

5 \* 0 ms \* Request timed out.

6 0 ms \* 1 ms 10.10.1.97

7 \* 0 ms \* Request timed out.

8 0 ms \* 1 ms 10.10.1.97

9

Control-C

^C

PC 3:

Packet Tracer PC Command Line 1.0

C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix..:

Physical Address................: 0060.7034.6930

Link-local IPv6 Address.........: FE80::260:70FF:FE34:6930

IPv6 Address....................: ::

IPv4 Address....................: 10.10.1.18

Subnet Mask.....................: 255.255.255.240

Default Gateway.................: ::

10.10.1.17

DHCP Servers....................: 0.0.0.0

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-82-76-04-5A-00-60-70-34-69-30

DNS Servers.....................: ::

0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix..:

Physical Address................: 0001.9726.C843

Link-local IPv6 Address.........: ::

IPv6 Address....................: ::

IPv4 Address....................: 0.0.0.0

Subnet Mask.....................: 0.0.0.0

Default Gateway.................: ::

0.0.0.0

DHCP Servers....................: 0.0.0.0

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-82-76-04-5A-00-60-70-34-69-30

DNS Servers.....................: ::

0.0.0.0

C:\>ping 10.10.1.98

Pinging 10.10.1.98 with 32 bytes of data:

Reply from 10.10.1.17: Destination host unreachable.

Reply from 10.10.1.17: Destination host unreachable.

Reply from 10.10.1.17: Destination host unreachable.

Reply from 10.10.1.17: Destination host unreachable.

Ping statistics for 10.10.1.98:

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

C:\>tracert 10.10.1.98

Tracing route to 10.10.1.98 over a maximum of 30 hops:

1 0 ms 0 ms 0 ms 10.10.1.17

2 0 ms \* 1 ms 10.10.1.17

3 \* 0 ms \* Request timed out.

4 0 ms \* 0 ms 10.10.1.17

5 \* 0 ms \* Request timed out.

6 0 ms \* 0 ms 10.10.1.17

7 \* 1 ms \* Request timed out.

8 0 ms \* 0 ms 10.10.1.17

9 \* 0 ms

Control-C

^C

Router 1:

User Access Verification

Password:

R1>en

Password:

R1#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset up up

GigabitEthernet0/1 10.10.1.97 YES manual up up

Serial0/0/0 unassigned YES unset administratively down down

Serial0/0/1 10.10.1.6 YES manual up up

Vlan1 unassigned YES unset administratively down down

R1#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, 3 masks

C 10.10.1.4/30 is directly connected, Serial0/0/1

L 10.10.1.6/32 is directly connected, Serial0/0/1

C 10.10.1.96/27 is directly connected, GigabitEthernet0/1

L 10.10.1.97/32 is directly connected, GigabitEthernet0/1

R1#

Router 3:

User Access Verification

Password:

R3>en

Password:

R3#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset up up

GigabitEthernet0/1 10.10.1.17 YES manual up up

Serial0/0/0 unassigned YES unset administratively down down

Serial0/0/1 10.10.1.10 YES manual up up

Vlan1 unassigned YES unset administratively down down

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 not set

10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks

C 10.10.1.8/30 is directly connected, Serial0/0/1

L 10.10.1.10/32 is directly connected, Serial0/0/1

C 10.10.1.16/28 is directly connected, GigabitEthernet0/1

L 10.10.1.17/32 is directly connected, GigabitEthernet0/1

R3#

Router 2:

User Access Verification

Password:

R2>en

Password:

R2#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 10.10.1.2 YES manual up up

Serial0/0/1 10.10.1.9 YES manual up up

Vlan1 unassigned YES unset administratively down down

R2#

R2#config t

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

R2(config)#int s0/0/0

R2(config-if)#ip address 10.10.1.5 255.255.255.252

R2(config-if)#

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.10.1.6 (Serial0/0/0) is up: new adjacency

R2(config-if)#exit

R2(config)#exit

R2#

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

R2#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 10.10.1.5 YES manual up up

Serial0/0/1 10.10.1.9 YES manual up up

Vlan1 unassigned YES unset administratively down down

R2#

PC 1: (Ping successful)

C:\>ping 10.10.1.18

Pinging 10.10.1.18 with 32 bytes of data:

Reply from 10.10.1.18: bytes=32 time=2ms TTL=125

Reply from 10.10.1.18: bytes=32 time=9ms TTL=125

Reply from 10.10.1.18: bytes=32 time=11ms TTL=125

Reply from 10.10.1.18: bytes=32 time=2ms TTL=125

Ping statistics for 10.10.1.18:

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

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 11ms, Average = 6ms

C:\>

PC 3: (Ping successful)

C:\>ping 10.10.1.98

Pinging 10.10.1.98 with 32 bytes of data:

Reply from 10.10.1.98: bytes=32 time=14ms TTL=125

Reply from 10.10.1.98: bytes=32 time=2ms TTL=125

Reply from 10.10.1.98: bytes=32 time=2ms TTL=125

Reply from 10.10.1.98: bytes=32 time=2ms TTL=125

Ping statistics for 10.10.1.98:

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

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 14ms, Average = 5ms

C:\>

PC 2:

Packet Tracer PC Command Line 1.0

C:\>ipv6config /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix..:

Physical Address................: 00E0.B035.82B8

Link-local IPv6 Address.........: FE80::2E0:B0FF:FE35:82B8

IPv6 Address....................: 2001:DB8:1:1::2

Default Gateway.................: FE80::1

DNS Servers.....................: ::

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-15-A9-3E-85-00-E0-B0-35-82-B8

Bluetooth Connection:

Connection-specific DNS Suffix..:

Physical Address................: 0001.4391.C48B

Link-local IPv6 Address.........: ::

IPv6 Address....................: ::

Default Gateway.................: ::

DNS Servers.....................: ::

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-15-A9-3E-85-00-E0-B0-35-82-B8

C:\>ping 2001:DB8:1:4::2

Pinging 2001:DB8:1:4:: with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 2001:DB8:1:4:::

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

C:\>tracert 2001:DB8:1:4::2

Tracing route to 2001:DB8:1:4:: over a maximum of 30 hops:

1 47 ms 3 ms 0 ms 2001:DB8:1:1::1

2 0 ms 0 ms 61 ms 2001:DB8:1:2::1

3 2 ms 2 ms 2 ms 2001:DB8:1:3::2

4 \* \* \* Request timed out.

5 \* \* \* Request timed out.

6 \*

Control-C

PC 4:

Packet Tracer PC Command Line 1.0

C:\>ipv6config /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix..:

Physical Address................: 0006.2ABC.7CD4

Link-local IPv6 Address.........: FE80::206:2AFF:FEBC:7CD4

IPv6 Address....................: 2001:DB8:1:4::2

Default Gateway.................: FE80::2

DNS Servers.....................: ::

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-54-60-98-B7-00-06-2A-BC-7C-D4

Bluetooth Connection:

Connection-specific DNS Suffix..:

Physical Address................: 00D0.FF7D.AD44

Link-local IPv6 Address.........: ::

IPv6 Address....................: ::

Default Gateway.................: ::

DNS Servers.....................: ::

DHCPv6 IAID.....................:

DHCPv6 Client DUID..............: 00-01-00-01-54-60-98-B7-00-06-2A-BC-7C-D4

C:\>ping 2001:DB8:1:1::2

Pinging 2001:DB8:1:1:: with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 2001:DB8:1:1:::

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

C:\>tracert 2001:DB8:1:1::2

Tracing route to 2001:DB8:1:1:: over a maximum of 30 hops:

1 \* \* \* Request timed out.

2 \* \* \* Request timed out.

3 \* \* \* Request timed out.

4 \* \* \* Request timed out.

5 \* \* \* Request timed out.

6

Control-C

^C

Router 3:

User Access Verification

Password:

R3>en

Password:

R3#show ipv6 interface brief

GigabitEthernet0/0 [up/up]

FE80::3

2001:DB8:1:4::1

GigabitEthernet0/1 [up/up]

unassigned

Serial0/0/0 [administratively down/down]

unassigned

Serial0/0/1 [up/up]

FE80::3

2001:DB8:1:3::2

Vlan1 [administratively down/down]

unassigned

R3#