Router: RouterA

Testcommand: show ip route

The expect output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

172.16.0.0/24 is subnetted, 4 subnets

C 172.16.0.0 is directly connected, FastEthernet0/0

C 172.16.1.0 is directly connected, Loopback0

C 172.16.2.0 is directly connected, Loopback1

C 172.16.3.0 is directly connected, Loopback2

C 192.168.1.0/24 is directly connected, Serial0/0/0

O IA 192.168.2.0/24 [110/1562] via 192.168.1.1, 00:17:54, Serial0/0/0

RouterA#

The actual output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

C 172.16.0.0/16 is directly connected, FastEthernet0/0

C 192.168.1.0/24 is directly connected, Serial0/0/0

O IA 192.168.2.0/24 [110/1562] via 192.168.1.1, 00:01:14, Serial0/0/0

RouterA#

fail/n------------------------------

Router: RouterB

Testcommand: show ip route

The expect output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

172.16.0.0/16 is variably subnetted, 4 subnets, 2 masks

O IA 172.16.1.1/32 [110/782] via 192.168.1.2, 00:18:01, Serial0/0/0

C 172.16.0.0/24 is directly connected, FastEthernet0/0

O IA 172.16.3.1/32 [110/782] via 192.168.1.2, 00:18:01, Serial0/0/0

O IA 172.16.2.1/32 [110/782] via 192.168.1.2, 00:18:01, Serial0/0/0

C 192.168.1.0/24 is directly connected, Serial0/0/0

C 192.168.2.0/24 is directly connected, Serial0/0/1

RouterB#

The actual output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

C 172.16.0.0/16 is directly connected, FastEthernet0/0

C 192.168.1.0/24 is directly connected, Serial0/0/0

C 192.168.2.0/24 is directly connected, Serial0/0/1

RouterB#

fail/n------------------------------

Router: RouterC

Testcommand: show ip route

The expect output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

172.16.0.0/16 is variably subnetted, 4 subnets, 2 masks

O IA 172.16.1.1/32 [110/1563] via 192.168.2.1, 00:17:47, Serial0/0/1

C 172.16.0.0/24 is directly connected, FastEthernet0/0

O IA 172.16.3.1/32 [110/1563] via 192.168.2.1, 00:17:47, Serial0/0/1

O IA 172.16.2.1/32 [110/1563] via 192.168.2.1, 00:17:47, Serial0/0/1

172.24.0.0/24 is subnetted, 1 subnets

C 172.24.2.0 is directly connected, Loopback0

O IA 192.168.1.0/24 [110/1562] via 192.168.2.1, 00:17:47, Serial0/0/1

C 192.168.2.0/24 is directly connected, Serial0/0/1

RouterC#

The actual output is:

show ip route

Codes: 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

i - IS-IS, su - IS-IS summary, 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

C 172.16.0.0/16 is directly connected, FastEthernet0/0

172.24.0.0/24 is subnetted, 1 subnets

C 172.24.2.0 is directly connected, Loopback0

O IA 192.168.1.0/24 [110/1562] via 192.168.2.1, 00:01:08, Serial0/0/1

C 192.168.2.0/24 is directly connected, Serial0/0/1

RouterC#

fail/n------------------------------

Router: RouterA

Testcommand: show ip interface brief

The expect output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.1 YES NVRAM up up

FastEthernet0/1 unassigned YES NVRAM administratively down down

Serial0/0/0 192.168.1.2 YES NVRAM up up

Serial0/0/1 unassigned YES NVRAM administratively down down

SSLVPN-VIF0 unassigned NO unset up up

Loopback0 172.16.1.1 YES NVRAM up up

Loopback1 172.16.2.1 YES NVRAM up up

Loopback2 172.16.3.1 YES NVRAM up up

RouterA#

The actual output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.1 YES manual up up

FastEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 192.168.1.2 YES manual up up

Serial0/0/1 unassigned YES unset administratively down down

SSLVPN-VIF0 unassigned NO unset up up

Loopback0 unassigned YES unset up up

Loopback1 unassigned YES unset up up

Loopback2 unassigned YES unset up up

RouterA#

fail/n------------------------------

Router: RouterB

Testcommand: show ip interface brief

The expect output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.2 YES NVRAM up up

FastEthernet0/1 unassigned YES NVRAM administratively down down

Serial0/0/0 192.168.1.1 YES manual up up

Serial0/0/1 192.168.2.1 YES manual up up

SSLVPN-VIF0 unassigned NO unset up up

RouterB#

The actual output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.2 YES manual up up

FastEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 192.168.1.1 YES manual up up

Serial0/0/1 192.168.2.1 YES manual up up

SSLVPN-VIF0 unassigned NO unset up up

RouterB#

fail/n------------------------------

Router: RouterC

Testcommand: show ip interface brief

The expect output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.3 YES NVRAM up up

FastEthernet0/1 unassigned YES NVRAM administratively down down

Serial0/0/0 unassigned YES NVRAM administratively down down

Serial0/0/1 192.168.2.2 YES manual up up

SSLVPN-VIF0 unassigned NO unset up up

Loopback0 172.24.2.1 YES manual up up

RouterC#

The actual output is:

show ip interface brief

Interface IP-Address OK? Method Status Protocol

FastEthernet0/0 172.16.0.3 YES manual up up

FastEthernet0/1 unassigned YES unset administratively down down

Serial0/0/0 unassigned YES unset administratively down down

Serial0/0/1 192.168.2.2 YES manual up up

SSLVPN-VIF0 unassigned NO unset up up

Loopback0 172.24.2.1 YES manual up up

RouterC#

fail/n------------------------------

Router: RouterA

Testcommand: ping 192.168.2.2

The expect output is:

ping 192.168.2.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.2, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 28/29/32 ms

RouterA#

The actual output is:

ping 192.168.2.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.2, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 28/29/32 ms

RouterA#

Success/n------------------------------

Router: RouterA

Testcommand: ping 192.168.2.1

The expect output is:

ping 192.168.2.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.1, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 16/16/16 ms

RouterA#

The actual output is:

ping 192.168.2.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.2.1, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 16/16/16 ms

RouterA#

Success/n------------------------------

Router: RouterA

Testcommand: traceroute 192.168.2.2

The expect output is:

traceroute 192.168.2.2

Type escape sequence to abort.

Tracing the route to

The actual output is:

traceroute 192.168.2.2

Type escape sequence to abort.

Tracing the route to

Success/n------------------------------

Router: RouterA

Testcommand: show ip ospf database

The expect output is:

The actual output is:

Success/n------------------------------

Success: 4 Fail: 6