100-105^{Q&As}

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

Which two steps must you perform to enable router-on-a-stick on a switch? (Choose two.)

A. Configure an IP route to the VLAN destination network.

B. Connect the Router to a trunk port.

C. Configure full duplex.

D. Configure the subinterface number exactly the same as the matching VLAN.

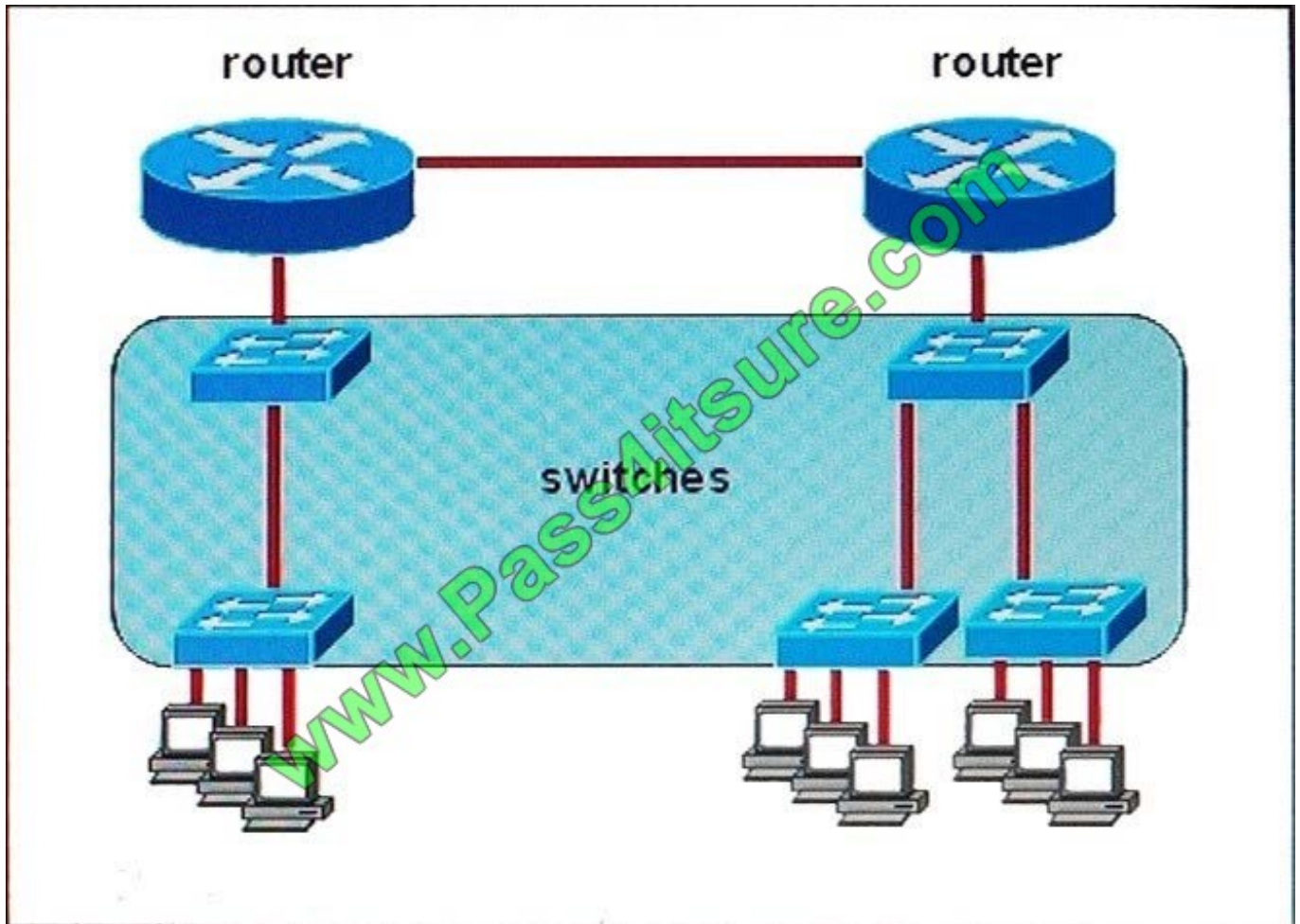E. Assign the access port to a VLAN.

Correct Answer: BC

QUESTION 2

Which address block identifies all link-local address?

A. fc00::/7

B. fc00::/8

C. fe80::/10

Correct Answer: C

QUESTION 3

Refer to the exhibit.

All devices attached to the network are shown. Which number of collision domains are present in this network?

A. 9

B. 3

C. 6

D. 2

E. 15

Correct Answer: E

A switch uses a separate collision domain for each port so there are a total of 9 for each device shown. In addition to this, the switch to switch connections (3) are a separate collision domain. Finally, we add the switch to router connections
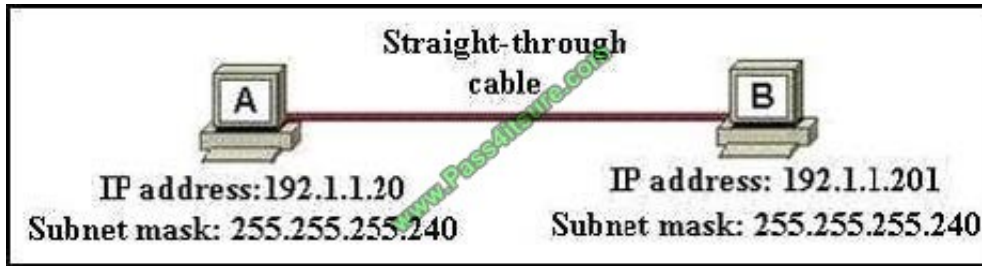
(2) and the router to router connection (1) for a total of 15.

QUESTION 4

A network administrator is connecting PC hosts A and B directly through their Ethernet interfaces as shown in the

graphic. Ping attempts between the hosts are unsuccessful. What can be done to provide connectivity between the hosts? (Choose two.)

A. A crossover cable should be used in place of the straight-through cable.

B. A rollover cable should be used in place of the straight-through cable.

C. The subnet masks should be set to 255.255.255.192

D. A default gateway needs to be set on each host.

E. The hosts must be reconfigured to use private IP addresses for direct connections of this type.

F. The subnet masks should be set to 255.255.255.0

Correct Answer: AF

QUESTION 5

A router receives identical prefixes from OSPF, EIGRP, RIP and the same route is configured statically.

Which route does the router use to forward traffic?

A. Static route

B. RIP route

C. EIGRP route

D. OSPF route

Correct Answer: A

QUESTION 6

You work for a company that provides managed network services, and of your real estate clients running a small office is experiencing network issues, Troubleshoot the network issues.

Router R1 connects the main office to internet, and routers R2 and R3 are internal routers NAT is enabled on Router R1.

The routing protocol that is enable between routers R1, R2, and R3 is RIPv2.

R1 sends default route into RIPv2 for internal routers to forward internet traffic to R1.

Server1 and Server2 are placed in VLAN 100 and 200 respectively, and dare still running router on stick configuration with router R2.

You have console access on R1, R2, R3, and L2SW1 devices.

Use only show commands to troubleshoot the issues.

Instructions

Enter IOS commands on the device to verify network operation and answer the multiple-choice questions.

This task does not require device configuration.

Click the device icon to gain access to the console of the device. No console or enable passwords are required.

To access the multiple-choice questions, click the numbered boxes on the left of the top panel.

There are four multiple-choice questions with this task. Be sure to answer all four questions before clicking Next.

R1

```
R1#show r
R1#show run
R1#show running-config
Building configuration…

Current configuration : 1438 bytes
!
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R1
!
Boot-start-marker
Boot-end-marker
!
!
no aaa new-model
clock timezone PST -8 0
nni polling-interval 60
no nni auto-configure
no nni pvc
nni snmp-timeout 180
!
!
!
!
```

R1

```
!
!
!
!
ip cef
no ipv6 cef
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
!
Redundancy
!
!
!
!
!
!
!
!
!
!
!
```

R1

```
interface Ethernet0/0
  description ***Link to ISP***
  ip address 209.165.201.1  255.255.255.224
  ip nat outside
  ip virtual-reassembly in
!
interface Ethernet0/1
  description ***Link to LAN***
  ip address 172.16.16.1  255.255.255.0
  ip nat inside
  ip virtual-reassembly in
!
interface Ethernet0/2
  description ***Link to R2***
  ip address 172.16.14.1  255.255.255.252
  ip nat inside
  ip virtual-reassembly in
!
interface Ethernet0/3
  no ip address
  shutdown
!
router rip
  version 2
  network 172.16.0.0
  default-information originate
  no auto-summary
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
```

R1

```
ip nat inside source list LOCAL interface Ethernet0/0 overload
ip route 10.10.10.0  255.255.255.0  172.16.14.2  200
!
ip access-list standard LOCAL
  permit 10.0.0.0  0.255.255.255
  permit 172.16.0.0  0.0.255.255
  permit 192.168.0.0  0.0.255.255
!
!
!
!
control-plane
!
!
line con 0
  logging synchronous
line aux 0
line vty 0  4
  login
  transport input all
!
!
end
R1#show interfaces
Ethernet0/0 is up, line protocol s up
  Hardware is AudP2, address is aabb.cc00.4100 (bia aabb.cc00.4100)
  Description: ***Link to ISP***
  Internet address is 209.165.201.1/27
  MTU 1500 bytes, BU 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, txload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
```

R1

```
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:53, output 00:00:07, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (site/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    40 packets input, 11786 bytes, 0 no buffer
    Received 39 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    191 packets output, 20271 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    4 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/1 is up, line protocol is up
  Hardware is AudP2, address is aabb.cc00.4110 (bia aabb.cc00.4110)
  Description: ***Link to LAN***
  Internet address is 172.16.16.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
```

R1

```
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    245 packets output, 30725 bytes, 0 underruns
    0 output errors, 0 collisions, 4 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/2 is up, line protocol is up
  Hardware is AudP2, address is aabb.cc00.4120 (bia aabb.cc00.4120)
  Description: ***Link to R2***
  Internet address is 172.16.14.1/30
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:16, output 00:00:07, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    98 packets input, 20097 bytes, 0 no buffer
    Received 97 broadcasts (54 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    247 packets output, 25359 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    4 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
```

R1

```
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
Ethernet0/3 is administratively down, line protocol is down
   Hardware is AudP2, address is aabb.cc00.4130 (bia aabb.cc00.4130)
   MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation ARPA, loopback not set
   Keepalive set (10 sec)
   ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
NVI0 is up, line protocol is up
   Hardware is NVI
   Interface is unnumbered. Using address of Ethernet0/0 (209.165.201.1)
   MTU 1514 bytes, BW 56 Kbit/sec, DLY 5000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation UNKNOWN, loopback not set
   Keepalive set (10 sec)
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
```

R1

```
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
R1#
R1# show ip interface brief
Interface       IP-Address      OK? Method  Status              Protocol
Ethernet0/0     209.165.201.1   Yes NVRAM   up                  up
Ethernet0/1     172.16.16.1     Yes NVRAM   up                  up
Ethernet0/2     172.16.14.1     Yes NVRAM   up                  up
Ethernet0/3     unassigned      Yes NVRAM   administratively down  down
NVI0            209.165.201.1   Yes unset   up                  up
R1#
R1#
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
       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, H – NHRP, 1 – LISP
       + - replicated route, % - next hop override

Gateway of last resort is not set

     10.0.0.0/24 is subnetted, 1 subnets
R       10.10.10.0 [120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
```

R1

```
     172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
R       172.16.11.0/30 [120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
C       172.16.14.0/30 is directly connected, Ethernet 0/2
L       172.16.14.1/32 is directly connected, Ethernet 0/2
C       172.16.16.0/24 is directly connected, Ethernet 0/1
L       172.16.16.1/32 is directly connected, Ethernet 0/1
R    192.168.1.0/24 [120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
R    192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
R    192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:20, Ethernet0/2
     209.165.201.0/24 is variably subnetted, 2 subnets, 2 masks
C       209.165.201.0/27 is directly connected, Ethernet0/0
L       209.165.201.1/32 is directly connected, Ethernet0/0
R1#
R1#
```

R2

```
R2#show run
R2#show running-config
Building configuration…

Current configuration : 1505 bytes
!
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R2
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
clock timezone PST -8 0
nni polling-interval 60
no nni auto-configure
no nni pvc
nni snmp-timeout 180
!
!
!
!



!
!
!
!
ip cef
no ipv6 cef
!
```

R2

```
multilink bundle-name authenticated
!
!
!
!
!
!
!
!
redundancy
!
!
!
!
!
!
!
!
!
!
!
!
interface Ethernet0/0
   description ***Link to R3***
   ip address 172.16.11.1  255.255.255.252
!
interface Ethernet0/1
   no ip address
!
interface Ethernet0/1.1
   description ***Link to Management Segment***
   encapsulation dot1Q 1 native
   ip address 192.168.1.1  255.255.255.0
!
```

R2

```
interface Ethernet0/1.100
  description ***Link to Server1 Segment***
  encapsulation dot10 200
  ip address 192.168.100.1  255.255.255.0
!
interface Ethernet0/1.200
  description ***Link to Server2 Segment***
  encapsulation dot10 100
  ip address 192.168.200.1  255.255.255.0
!
interface Ethernet0/2
  description ***Link to R1***
  ip address 172.16.14.2  255.255.255.252
!
interface Ethernet0/3
  description ***Link to LAN***
  ip address 10.10.10.1  255.255.255.0
!
router rip
  version 2
  network 10.0.0.0
  network 172.16.0.0
  network 192.168.1.0
  network 192.168.100.0
  network 192.168.200.0
  no auto-summry
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
!
!
control-plane
!
!
```

R2

```
!
!
!
!
!
line con 0
  logging synchronous
line aux 0
line vty 0  4
  login
  transport input all
!
!
end
R2#show interfaces
Ethernet0/0 is up, line protocol is up
  Hardware is AudP2, address is aabb.cc00.4200 (bia aabb.cc00.4200)
  Description: ***Link to R3***
  Internet address is 172.16.11.1/30
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:32, output 00:00:08, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
     50 packets input, 15683 bytes, 0 no buffer
     Received 50 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     343 packets output, 42566 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
```

R2

    2 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/1 is up, line protocol is up
    Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
        reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation ARPA, loopback not set
    Keepalive set (10 sec)
    ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:08, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 1000 bits/sec, 2 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    4632 packets input, 308536 bytes, 0 no buffer
    Received 4421 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    512 packets output, 73148 bytes, 0 underruns
    0 output errors, 0 collisions, 0 interface resets
    73 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/1.1 is up, line protocol is up
    Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)
    Description: ***Link to Management Segment***
    Internet address is 192.168.1.1/24
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
        reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation 802.1Q Virtual LAN, Vlan ID 1.
    ARP type: ARPA, ARP Timeout 04:00:00
    Keepalive set (10 sec)

R2

Last clearing of ''show interface'' counters never
Ethernet0/1.100 is up, line protocol is up
    Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)
    Description: ***Link to Server Segment***
    Internet address is 192.168.100.1/24
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
        reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation 802.1Q Virtual LAN, Vlan ID 200.
    ARP type: ARPA, ARP Timeout 04:00:00
    Keepalive set (10 sec)
Last clearing of ''show interface'' counters never
Ethernet0/1.200 is up, line protocol is up
    Hardware is AmdP2, address is aabb.cc00.4210 (bia aabb.cc00.4210)
    Description: ***Link to Server2 Segment***
    Internet address is 192.168.200.1/24
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
        reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation 802.1Q Virtual LAN, Vlan ID 100.
    ARP type: ARPA, ARP Timeout 04:00:00
    Keepalive set (10 sec)
Last clearing of ''show interface'' counters never
Ethernet0/2 is up, line protocol is up
    Hardware is AmdP2, address is aabb.cc00.4220 (bia aabb.cc00.4220)
    Description: ***Link to R1***
    Internet address is 172.16.14.2/30
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
        reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation ARPA, loopback not set
    Keepalive set (10 sec)
    ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:08, output 00:00:02, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec

R2

```
    128 packets input, 21994 bytes, 0 no buffer
    Received 127 broadcasts (77 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    345 packets output, 39952 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/3 is up, line protocol is up
  Hardware is AmdP2, address is aabb.cc00.4230 (bia aabb.cc00.4230)
  Description: ***Link to LAN***
  Internet address is 10.10.10.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    344 packets output, 42752 bytes, 0 underruns
    0 output errors, 0 collisions, 6 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
```

R2

```
R2#
R2#
R2# show ip interface brief
Interface        IP-Address      OK?  Method  Status  Protocol
Ethernet0/0      172.16.11.1     Yes  NVRAM   up      up
Ethernet0/1      unassigned      Yes  NVRAM   up      up
Ethernet0/1.1    192.168.1.1     Yes  NVRAM   up      up
Ethernet0/1.100  192.168.100.1   Yes  NVRAM   up      up
Ethernet0/1.200  192.168.200.1   Yes  NVRAM   up      up
Ethernet0/2      172.16.14.2     Yes  NVRAM   up      up
Ethernet0/3      10.10.10.1      Yes  NVRAM   up      up

R2#
R2#
R2#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
        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, H – NHRP, l – LISP
        + - replicated route, % - next hop override

Gateway of last resort is 172.16.14.1 to network 0.0.0.0

R*       0.0.0.0 [120/1] via 172.16.14.1, 00:00:23, Ethernet0/2
         10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C        10.10.10.0/24 is directly connected, Ethernet 0/3
L        10.10.10.1/32 is directly connected, Ethernet 0/3
         172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
C        172.16.11.0/30 is directly connected, Ethernet 0/0
L        172.16.11.1/32 is directly connected, Ethernet 0/0
C        172.16.14.0/30 is directly connected, Ethernet 0/2
L        172.16.14.2/32 is directly connected, Ethernet 0/2
R        172.16.16.0/24 [120/1] via 172.16.14.1, 00:00:23, Ethernet0/2
         192.168.1.0/24 is variably subnetted, 2 subnets, 3 masks
```

R2

```
C        192.168.1.0/24 is directly connected, Ethernet 0/1.1
L        192.168.1.1/32 is directly connected, Ethernet 0/1.1
         192.168.100.0/24 is variably subnetted, 2 subnets, 3 masks
C        192.168.100.0/24 is directly connected, Ethernet 0/1.100
L        192.168.100.1/32 is directly connected, Ethernet 0/1.100
         192.168.200.0/24 is variably subnetted, 2 subnets, 3 masks
C        192.168.200.0/24 is directly connected, Ethernet 0/1.200
L        192.168.200.1/32 is directly connected, Ethernet 0/1.200
R2#
```

R3
R3#show run
R3#show running-config
Building configuration…
Current configuration : 913 bytes
!
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R3
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
clock timezone PST -8 0
nni polling-interval 60
no nni auto-configure
no nni pvc
nni snmp-timeout 180
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!

R3
!
!
!
!
!
!
!
redundancy
!
!
!
!
!
!
!
!
!
!
!
!
interface Ethernet0/0
description ***Link to LAN***
ip address 10.10.12.1 255.255.255.252
!
interface Ethernet0/1
description ***Link to R2***
ip address 172.16.11.2 255.255.255.252
!
interface Ethernet0/2
no ip address
shutdown
!
interface Ethernet0/3
no ip address
shutdown

R3
```
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  logging synchronous
line aux 0
line vty 0  4
  login
  transport input all
!
!
end
R3#show interfaces
Ethernet0/0 is up, line protocol is up
  Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300)
  Description: ***Link to LAN***
  Internet address is 10.10.12.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
```

R3
```
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
!
!
!
!
control-plane
!
!
!
!
!
!
line con 0
  logging synchronous
line aux 0
line vty 0  4
  login
  transport input all
!
!
end
R3#show interfaces
Ethernet0/0 is up, line protocol is up
  Hardware is AmdP2, address is aabb.cc00.4300 (bia aabb.cc00.4300)
  Description: ***Link to LAN***
  Internet address is 10.10.12.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
```

R3

Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    666 packets output, 71699 bytes, 0 underruns
    0 output errors, 0 collisions, 11 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/1 is up, line protocol is up
  Hardware is AmdP2, address is aabb.cc00.4310 (bia aabb.cc00.4310)
  Description: ***Link to R2***
  Internet address is 172.16.11.2/30
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:21, output 00:00:05, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    316 packets input, 74089 bytes, 0 no buffer
    Received 316 broadcasts (200 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored

R3

    0 input packets with dribble condition detected
    669 packets output, 71888 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/2 is administratively down, line protocol is down
  Hardware is AmdP2, address is aabb.cc00.4320 (bia aabb.cc00.4320)
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    0 packets output, 0 bytes, 0 underruns
    0 output errors, 0 collisions, 0 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/3 is administratively down, line protocol is down
  Hardware is AmdP2, address is aabb.cc00.4330 (bia aabb.cc00.4330)
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)

R3

```
    ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R3#
R3#
R3# show ip interface brief
Interface      IP-Address    OK?  Method    Status
Protocol
Ethernet0/0    10.10.12.1    Yes  NVRAM     up
up
Ethernet0/1    172.16.11.2   Yes  NVRAM     up
up
Ethernet0/2    unassigned    Yes  NVRAM     administratively down
down
Ethernet0/3    unassigned    Yes  NVRAM     administratively down
down
R3#
R3#
R3#show ip route
Codes : L – local, C – connected, S – static, R – RIP, M – mobile, B - BGP
        D – EIGRP, EX – EIGRP external, 0 – OSPF, IA – OSPF inter area
        N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2
```

R3

```
        E1 – OSPF external type 1, E2 – OSPF external type 2
        i – IS-IS, su – IS-IS summary, LI – 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, H – NHRP, 1 – LISP
        + - replicated route, % - next hop override

Gateway of last resort is not set


        10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C          10.10.12.0/24 is directly connected, Ethernet 0/0
L          10.10.12.1/32 is directly connected, Ethernet 0/0
        172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C          172.16.11.0/30 is directly connected, Ethernet 0/1
L          172.16.11.2/32 is directly connected, Ethernet 0/1
R3#
R3#
R3#
```

L2SW1

```
L2SW1#show run
L2SW1#show running-config
Building configuration...

Current configuration : 1074 bytes
!
version 15.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service compress-config
!
hostname L2SW1
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
clock timezone PST -8 0
!
ip cef
!
interface Vlan1
   ip address 192.168.1.254  255.255.255.0
!
ip default-gateway 192.168.1.1
!
no ip http server
!
!
!
!
control-plane
!
!
```

L2SW1

```
line con 0
   logging synchronous
line aux
line vty 0  4
   login
!
End
L2SW1#
L2SW1#
L2SW1#show interfaces
Ethernet0/0 is up, line protocol is up (connected)
!
interface Ethernet0/0
   description ***Link to R2***
   switchport trunk encapsulation dot1q
   switchport mode trunk
   duplex auto
!
interface Ethernet0/1
   description ***Link to Server1 segment***
   switchport access vlan 100
   switchport mode access
   duplex auto
!
interface Ethernet0/2
   description ***Link to Server2 segment***
   switchport access vlan 200
   switchport mode access
   duplex auto
!
interface Ethernet0/3
   duplex auto
!
interface Vlan1
   ip address 192.168.1.254  255.255.255.0
!
L2SW1#show interfaces
Ethernet0/0 is up, line protocol is up (connected)
```

L2SW1

Hardware is AmdP2, address is aabb.cc00.4500 (bia aabb.cc00.4500)
Description: ***Link to R2***
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
   reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is unknown
input flow-control is off, output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:07, output 00:00:00, output hang never
Last clearing of ''show interface'' counters never
Input queue: 12/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/00 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 2 packets/sec
   1447 packets input, 208877 bytes, 0 no buffer
   Received 139 broadcasts (0 multicasts)
   0 runts, 0 giants, 0 throttles
   0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
   0 input packets with dribble condition detected
   13457 packets output, 919293 bytes, 0 underruns
   0 output errors, 0 collisions, 0 interface resets
   0 unknown protocol drops
   0 babbles, 0 late collision, 0 deferred
   0 lost carrier, 0 no carrier
   0 output buffer failures, 0 output buffers swapped out
Ethernet0/1 is up, line protocol is up (connected)
   Hardware is AmdP2, address is aabb.cc00.4510 (bia aabb.cc00.4510)
   Description: ***Link to Sercer1 segment***
   MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation ARPA, loopback not set
   Keepalive set (10 sec)
   Auto-duplex, Auto-speed, media type is unknown
   input flow-control is off, output flow-control is unsupported
   ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:07, output 00:00:01, output hang never

L2SW1

Last clearing of ''show interface'' counters never
Input queue: 5/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/0 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
   755 packets input, 80219 bytes, 0 no buffer
   Received 123 broadcasts (0 multicasts)
   0 runts, 0 giants, 0 throttles
   0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
   0 input packets with dribble condition detected
   3867 packets output, 268544 bytes, 0 underruns
   0 output errors, 0 collisions, 1 interface resets
   0 unknown protocol drops
   0 babbles, 0 late collision, 0 deferred
   0 lost carrier, 0 no carrier
   0 output buffer failures, 0 output buffers swapped out
Ethernet0/2 is up, line protocol is up (connected)
   Hardware is AmdP2, address is aabb.cc00.4520 (bia aabb.cc00.4520)
   Description: ***Link to Sercer2 segment***
   MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
   Encapsulation ARPA, loopback not set
   Keepalive set (10 sec)
   Auto-duplex, Auto-speed, media type is unknown
   input flow-control is off, output flow-control is unsupported
   ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:07, output 00:00:01, output hang never
Last clearing of ''show interface'' counters never
Input queue: 5/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/0 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
   758 packets input, 81010 bytes, 0 no buffer
   Received 125 broadcasts (0 multicasts)
   0 runts, 0 giants, 0 throttles
   0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored

```
L2SW1
    0 input packets with dribble condition detected
    3867 packets output, 268544 bytes, 0 underruns
    0 output errors, 0 collisions, 0 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
    0 output buffer failures, 0 output buffers swapped out
Ethernet0/3 is up, line protocol is up (connected)
    Hardware is AmdP2, address is aabb.cc00.4530 (bia aabb.cc00.4530)
    MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation ARPA, loopback not set
    Keepalive set (10 sec)
    Auto-duplex, Auto-speed, media type is unknown
    input flow-control is off, output flow-control is unsupported
    ARP type: ARPA, ARP Timeout 04:00:00
    Last input never, output never, output hang never
    Last clearing of ''show interface'' counters never
    Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
    Queueing strategy: fifo
    Output queue: 0/0 (size/max)
    5 minute input rate 0 bits/sec, 0 packets/sec
    5 minute output rate 0 bits/sec, 0 packets/sec
      0 packets input, 0 bytes, 0 no buffer
      Received 0 broadcasts (0 multicasts)
      0 runts, 0 giants, 0 throttles
      0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
      0 input packets with dribble condition detected
      3566 packets output, 252186 bytes, 0 underruns
      0 output errors, 0 collisions, 55 interface resets
      0 unknown protocol drops
      0 babbles, 0 late collision, 0 deferred
      0 lost carrier, 0 no carrier
      0 output buffer failures, 0 output buffers swapped out
Vlan1 is up, line protocol is up
    Hardware is Ethernet SVI, address is aabb.cc80.4500 (bia aabb.cc80.4500)
    Internet address is 192.168.1.254/24
```

```
L2SW1
    MTU 1500 bytes, BW 1000000 Kbit/sec, DLY 10 usec,
      reliability 255/255, txload 1/255, rxload 1/255
    Encapsulation ARPA, loopback not set
    Keepalive not supported
    ARP type: ARPA, ARP Timeout 04:00:00
    Last input 00:00:12, output never, output hang never
    Last clearing of ''show interface'' counters never
    Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
    Queueing strategy: fifo
    Output queue: 0/40 (size/max)
    5 minute input rate 0 bits/sec, 0 packets/sec
    5 minute output rate 0 bits/sec, 0 packets/sec
      235 packets input, 42480 bytes, 0 no buffer
      Received 235 broadcasts (0 IP multicasts)
      0 runts, 0 giants, 0 throttles
      0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
      11 packets output, 830 bytes, 0 underruns
      0 output errors, 0 interface resets
      0 unknown protocol drops
      0 output buffer failures, 0 output buffers swapped out
L2SW1#
L2SW1#
L2SW1# show ip interface brief
Interface      IP-Address      OK?   Method   Status   Protocol
Ethernet0/0    unassigned      Yes   unset    up       up
Ethernet0/1    unassigned      Yes   unset    up       up
Ethernet0/2    unassigned      Yes   unset    up       up
Ethernet0/3    unassigned      Yes   unset    up       up
Vlan1          192.168.1.254   Yes   NVRAM    up       up
L2SW1#
L2SW1#
L2SW1#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
        i – IS-IS, su – IS-IS summary, LI – IS-IS level-1, L2 – IS-IS level-2
        ia – IS-IS inter area, * – candidate default, U – per-user static route
```

L2SW1

```
         o – ODR, P – periodic downloaded static route, H – NHRP, 1 – LISP
         + - replicated route, % - next hop override

Gateway of last resort is not set


         192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C           192.168.1.0/24 is directly connected, Vlan1
L           192.168.1.254/32 is directly connected, Vlan1
L2SW1#
L2SW1#
L2SW1#
```

Examine R2 configuration, the traffic that is destined to R3 LAN network sourced from Router R2 is forwarded to R1 instead R3. What could be an issue?

```
R2#traceroute 10.10.12.1 source 10.10.10.1
Type escape sequence to abort.
Tracing the route to 10.10.12.1
VRF info: (vrf in name/id, vrf out name/id)
1 172.16.14.1 0 msec 1 msec 0 msec
2 172.16.14.1 !H !H *

R2#
```

A. RIPv2 enabled on R3, but R3 LAN network that is not advertised into RIPv2 domain.

B. RIPv2 routing updates are suppressed between R2 and R3 using passive interface feature.

C. RIPv2 not enabled on R3.

D. No issue that is identified; this behavior is normal since default route propagated into RIPv2 domain by Router R1.

Correct Answer: C

First we should check the routing table of R2 with the "show ip route" command.

```
R2#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
       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, H - NHRP, l -
LISP
       a - application route
       + - replicated route, % - next hop override

Gateway of last resort is 172.16.14.1 to network 0.0.0.0

R*     0.0.0.0/0 [120/1] via 172.16.14.1, 00:00:26, Ethernet0/2
       10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C         10.10.10.0/24 is directly connected, Ethernet0/3
L         10.10.10.1/32 is directly connected, Ethernet0/3
       172.16.0.0/16 is variably subnetted, 5 subnets, 3 masks
C         172.16.11.0/30 is directly connected, Ethernet0/0
L         172.16.11.1/32 is directly connected, Ethernet0/0
C         172.16.14.0/30 is directly connected, Ethernet0/2
L         172.16.14.2/32 is directly connected, Ethernet0/2
R         172.16.16.0/24 [120/1] via 172.16.14.1, 00:00:26, Ethernet0/2
       192.168.100.0/24 is variably subnetted, 2 subnets, 2 masks
C         192.168.100.0/24 is directly connected, Ethernet0/1.100
L         192.168.100.1/32 is directly connected, Ethernet0/1.100
       192.168.200.0/24 is variably subnetted, 2 subnets, 2 masks
C         192.168.200.0/24 is directly connected, Ethernet0/1.200
L         192.168.200.1/32 is directly connected, Ethernet0/1.200
```

Router R1 connects the main office to internet, and routers R2 and R3 are internal routers NAT is enabled on Router R1.

The routing protocol that is enable between routers R1, R2, and R3 is RIPv2.

R1 sends default route into RIPv2 for internal routers to forward internet traffic to R1.

In this table we cannot find the subnet "10.10.12.0/24" (R3 LAN network) so R2 will use the default route advertised from R1 (with the command "default-information originate" on R1) to reach unknown destination, in this case subnet 10.10.12.0/24 -> R2 will send traffic to 10.10.12.0/24 to R1.

Next we need to find out why R3 did not advertise this subnet to R2. A quick check with the "show running-config" on R3 we will see that R3 was not configured with RIP (no "router rip" section). Therefore we can conclude RIPv2 was not enabled on R3.

QUESTION 7

Which type of cable must you use to connect two devices with mdi interfaces?

A. rolled

B. crossover

C. crossed

D. straight through

Correct Answer: B

QUESTION 8

How many addresses will be available for dynamic NAT translation when a router is configured with the following commands?

Router(config)#ip nat pool TAME 209.165.201.23 209.165.201.30 netmask 255.255.255.224 Router(config)#ip nat inside source list 9 pool TAME

A. 7

B. 8

C. 9

D. 10

E. 24

F. 32

Correct Answer: B

209.165.201.23 to 209.165.201.30 provides for 8 addresses.

QUESTION 9

What command sequence will configure a router to run OSPF and add network 10.1.1.0 /24 to area 0?

A. router ospf area 0 network 10.1.1.0 255.255.255.0 area 0

B. router ospf network 10.1.1.0 0.0.0.255

C. router ospf 1 network 10.1.1.0 0.0.0.255 area 0

D. router ospf area 0 network 10.1.1.0 0.0.0.255 area 0

E. router ospf network 10.1.1.0 255.255.255.0 area 0

F. router ospf 1 network 10.1.1.0 0.0.0.255

Correct Answer: C

QUESTION 10

Which three commands are required to enable NTP authentication on a Cisco router? (Choose three)

A. ntp peer

B. ntp max-associations

C. ntp authenticate

D. ntp trusted-key

E. ntp authentication-key

F. ntp refclock

Correct Answer: CDE

QUESTION 11

Which statements are TRUE regarding Internet Protocol version 6 (IPv6) addresses? (Choose three.)

A. An IPv6 address is divided into eight 16-bit groups.

B. A double colon (::) can only be used once in a single IPv6 address.

C. IPv6 addresses are 196 bits in length.

D. Leading zeros cannot be omitted in an IPv6 address.

E. Groups with a value of 0 can be represented with a single 0 in IPv6 address.

Correct Answer: ABE

IPv6 addresses are divided into eight 16-bit groups, a double colon (::) can only be used once in an IPv6 address, and groups with a value of 0 can be represented with a single 0 in an IPv6 address.

The following statements are also true regarding IPv6 address:

IPv6 addresses are 128 bits in length.

Eight 16-bit groups are divided by a colon (:).

Multiple groups of 16-bit 0s can be represented with double colon (::).

Double colons (::) represent only 0s.

Leading zeros can be omitted in an IPv6 address.

The option stating that IPv6 addresses are 196 bits in length is incorrect. IPv6 addresses are 128 bits in length.

The option stating that leading zeros cannot be omitted in an IPv6 address is incorrect.

Leading zeros can be omitted in an IPv6 address.

QUESTION 12

How can you prevent a MAC address from aging out of the MAC address table?

A. Clear the MAC address table.

B. Disable the MAC address aging timer.

C. Manually enter the MAC address into the MAC address table.

D. Enable IGMP snooping.

Correct Answer: C

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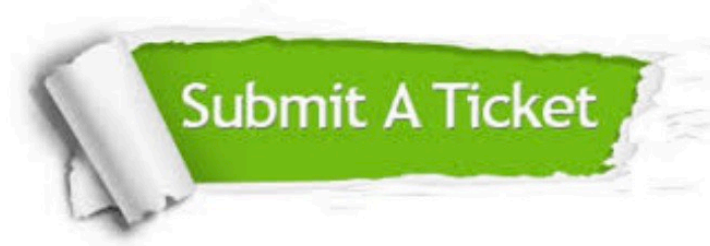Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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