100-105 Q&As

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

Which feature can you use to access all file systems on a device?

A. routing

B. syslog

C. service policies

D. IFS

Correct Answer: D

QUESTION 2

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.

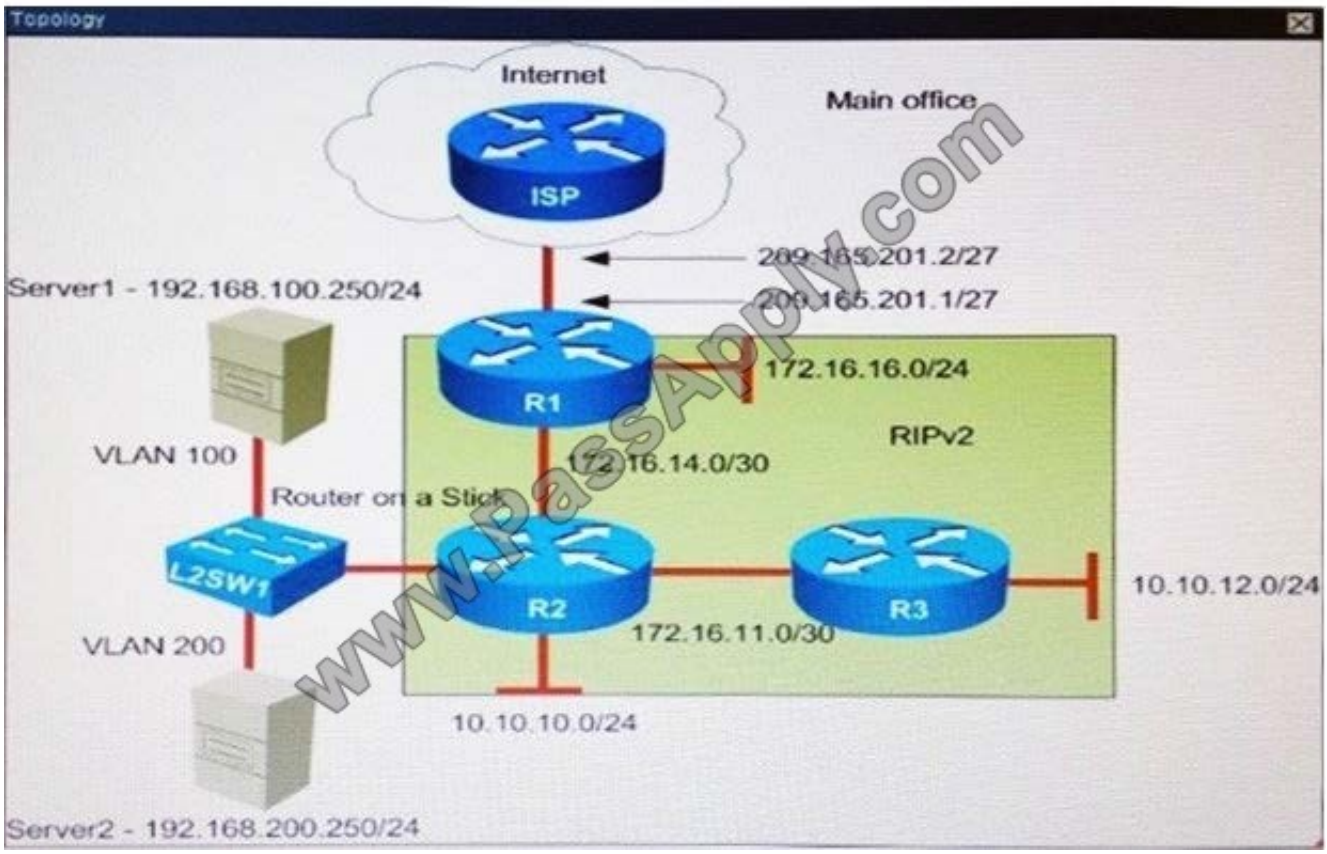
This task does not require device configuration.

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 protocoli 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 protocoli s 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, 0 – 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
       o – ODR, P – periodic downloaded static route, H – NHRP, l – 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 dot10 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 802.10 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 802.10 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 802.10 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, 0 – 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
        o – ODR, P – periodic downloaded static route, H – NHRP, 1 – 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

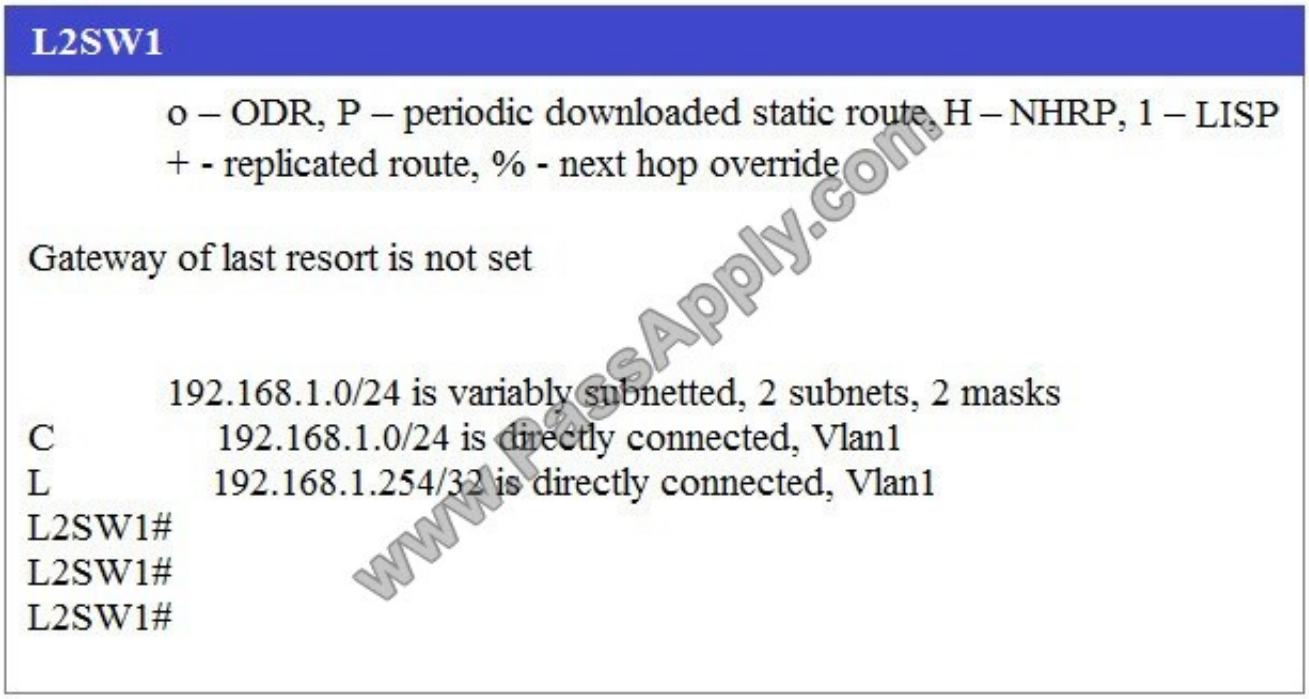
```
Last clearing of ''show interface'' counters never
Input queue: 5/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/0 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
     755 packets input, 80219 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

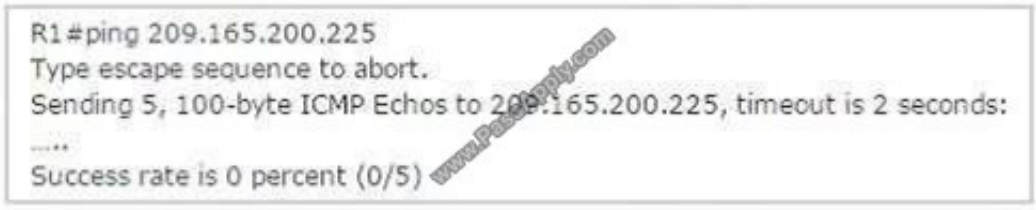
```
  MTU 1500 bytes, BW 1000000 Kbit/sec, DLY 10 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive not supported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:12, output never, output hang never
  Last clearing of ''show interface'' 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, 0 – 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
```



Users in the main office complain that they are unable to reach internet sites.

You observe that internet traffic that is destined towards ISP router is not forwarded correctly on Router R1.

What could be an issue? Ping to Internet server shows the following results from R1:



A. The next hop router address for the default route is incorrectly configured.

B. Default route pointing to ISP router is not configured on Router R1.

C. Default route pointing to ISP router is configured with AD of 225.

D. Router R1 configured as DHCP client is not receiving default route via DHCP from ISP router.

Correct Answer: B

When all the users cannot reach internet sites we should check on the router connecting to the ISP to see if it has a default route pointing to the ISP or not. Use the "show ip route" command on 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 downlcaded static route, H - NHRP, l -
LISP
       a - application route
       + - 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, 00:00:06, Ethernet0/2
      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, 00:00:14, Ethernet0/2
C        172.16.14.0/30 is directly connected, Ethernet0/2
L        172.16.14.1/32 is directly connected, Ethernet0/2
C        172.16.16.0/24 is directly connected, Ethernet0/1
L        172.16.16.1/32 is directly connected, Ethernet0/1
R     192.168.100.0/24 [120/1] via 172.16.14.2, 00:00:14, Ethernet0/2
R     192.168.200.0/24 [120/1] via 172.16.14.2, 00:00:14, 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
```

We cannot find a default route on R1 (something like this: S* 0.0.0.0/0 [1/0] via 209.165.201.2) so maybe R1 was not configured with a default route. We can check with the "show running-config" on R1:

```
R1#show running-config
<output omitted>
ip route 10.10.10.0 255.255.255.0 172.16.14.2 200
<output omitted>
```

We need a default route (like "ip route 0.0.0.0 0.0.0.0 209.165.201.2") but we cannot find here so we can conclude R1 was not be configured with a default route pointing to the ISP router.

QUESTION 3

Which technology supports the stateless assignment of IPv6 addresses?

A. DNS

B. DHCPv6

C. DHCP

D. autoconfiguration

Correct Answer: D

Stateless Auto Configuration is an important feature offered by the IPv6 protocol. It allows the various devices attached to an IPv6 network to connect to the Internet using the Stateless Auto Configuration without requiring any intermediate IP support in the form of a Dynamic Host Configuration Protocol (DHCP) server.
http://ipv6.com/articles/general/Stateless-Auto-Configuration.htm

QUESTION 4

Which two syslog configuration commands do you use to log warnings to the syslog server? (Choose two.)

A. logging trap level informational

B. logging trap level alerts

C. logging trap level notice

D. logging trap level critical

E. logging trap level error

Correct Answer: AC

QUESTION 5

Which transport layer protocol is best suited for the transport of VoIP data?

A. RIP

B. UDP

C. TCP

D. OSPF

E. HTTP

Correct Answer: B

QUESTION 6

Which command can you enter to forward DHCP requests to a server on behalf of a client on a different network?

A. service dhcp

B. network 192.168.100.0 255.255.255.0

C. ip-helper address address

D. ip dhcp pool pool_name

Correct Answer: C

QUESTION 7

A network administrator has subnetted the 172.16.0.0 network using a subnet mask of 255.255.255.192. A duplicate IP address of 172.16.2.120 has accidentally been configured on a workstation in the network. The technician must assign this workstation a new IP address within that same subnetwork. Which address should be assigned to the workstation?

A. 172.16.1.80

B. 172.16.2.80

C. 172.16.1.64

D. 172.16.2.64

E. 172.16.2.127

F. 172.16.2.128

Correct Answer: B

QUESTION 8

Which two VLANs are reserved for system use only? (Choose two.)

A. 2

B. 4095

C. 1001

D. 4096

E. 1

F. 0

Correct Answer: BF

VLANs	Range	Usage	Propagated by VTP
0, 4095	Reserved	For system use only. You cannot see or use these VLANs.	N/A
1	Normal	Cisco default. You can use this VLAN but you cannot delete it.	Yes
2-1001	Normal	Used for Ethernet VLANs; you can create, use, and delete these VLANs.	Yes
1002-1005	Normal	Cisco defaults for FDDI and Token Ring. You cannot delete VLANs 1002-1005.	Yes
1006-4094	Extended	For Ethernet VLANs only. When configuring extended-range VLANs, note the following: • Layer 3 ports and some software features require internal VLANs. Internal VLANs are allocated from 1006 and up. You cannot use a VLAN that has been allocated for such use. To display the VLANs used internally, enter the **show vlan internal usage** command. • Switches running Catalyst product family software do not support configuration of VLANs 1006-1024. If you configure VLANs 1006-1024, ensure that the VLANs do not extend to any switches running Catalyst product family software. • You must enable the extended system ID to use extended range VLANs. See the "Enabling the Extended System ID" section.	No

Reference:
http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/vlans.html

QUESTION 9

Router R1 has a static router that is configured to a destination network. A directly connected inference is configured with an ip address in the same destination network. Which statement about R1 is true ?

A. It refuses to advertise the dynamic route to other neighbors

B. It sends a withdrawal signal to the neighboring router

C. It disables the routing protocol

D. It prefers the static route

Correct Answer: D

QUESTION 10

Instructions

You can click on the grey buttons below to view the different windows.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

The "Tab" key and most commands that use the "Control" or "Escape" keys are not supported and are not necessary to complete this simulation.

Scenario

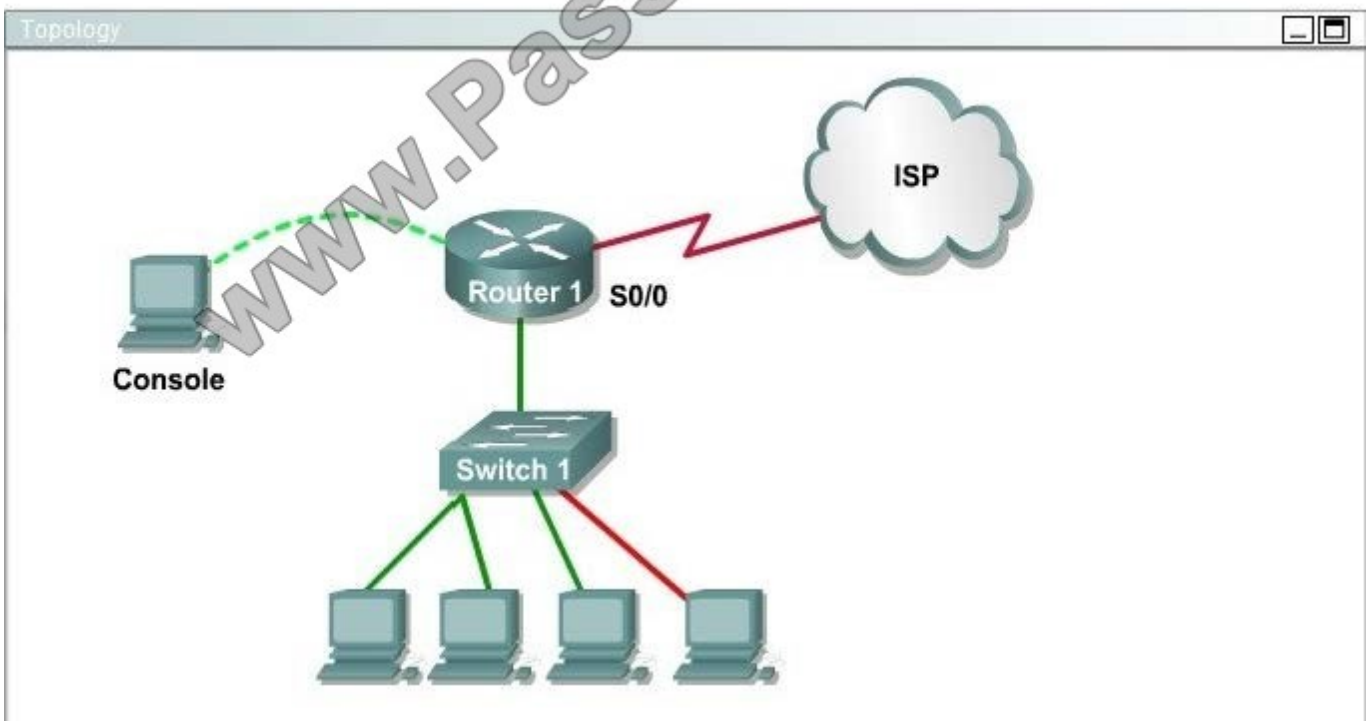
This task requires the use of various **show** commands from the CLI of Router1 to answer four multiple-choice questions. This task does **not** require any configuration.

NOTE: The show running-configuration and the show startup-configuration commands have been disabled in this simulation.

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

There are 4 multiple-choice questions with this task. Be sure to answer all 4 questions before leaving this item.

Topology



What is the subnet broadcast address of the LAN connected to Router1?

A. 192.168.8.15

B. 192.168.8.31

C. 192.168.8.63

D. 192.168.8.127

Correct Answer: A

The IP address assigned to FA0/1 is 192.168.8.9/29, making 192.168.8.15 the broadcast address.

QUESTION 11

Which counter indicates the total number of frames that a switch port failed to transmit?

A. frame

B. collisions

C. output errors

D. packet outputs

Correct Answer: C

QUESTION 12

If NVRAM lacks boot system commands, where does the router look for the Cisco IOS by default?

A. ROM

B. RAM

C. Flash

D. bootstrap

E. startup-config

Correct Answer: C