



# 100-105<sup>Q&As</sup>

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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## QUESTION 1

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.

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
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 is 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 40960 Kbit/sec, DLY 1000 usec,
  reliability 255/255, txload 1/255, txload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
```

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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 (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
 40 packets input, 11786 bytes, 0 no buffer
  Received 39 broadcasts (0 IP multicasts)
  0 runs, 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 runs, 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 runs, 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 runs, 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
NV10 is up, line protocol is up
Hardware is NV1
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 runs, 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
Ethernet0/1  172.16.16.1   Yes  NVRAM   up
Ethernet0/2  172.16.14.1   Yes  NVRAM   up
Ethernet0/3  unassigned    Yes  NVRAM   administratively down
NV10        209.165.201.1  Yes  unset   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, 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, I - 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
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-summary
!
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 runs, 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 runs, 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 runs, 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 runs, 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# 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, I - 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
!
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
```

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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 runs, 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 runs, 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 runs, 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)
```



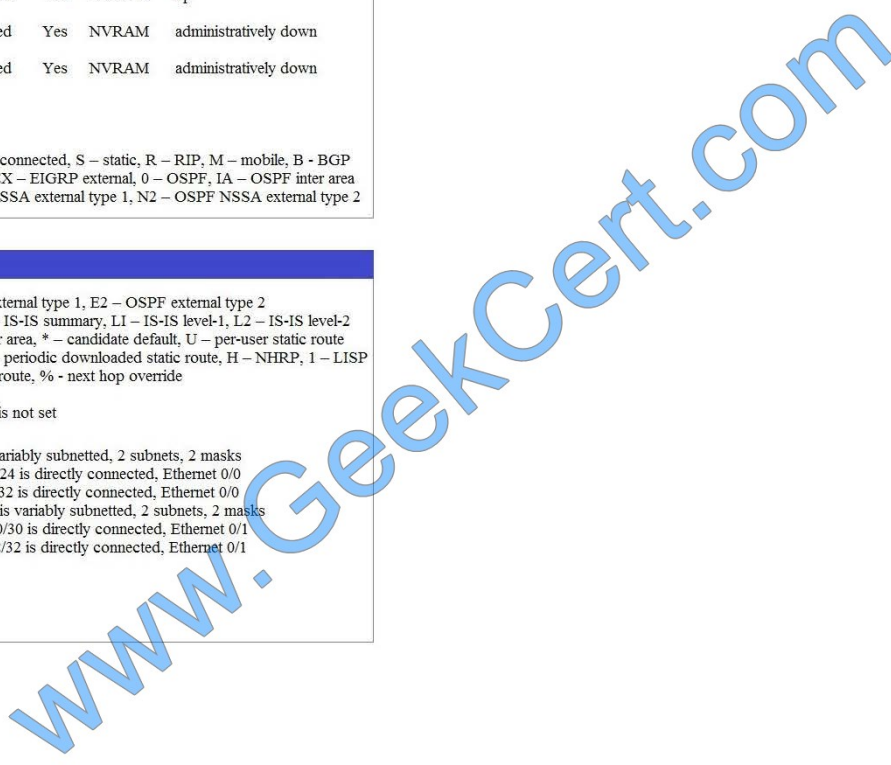


```
R3
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of ''show interface'' counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 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 runs, 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, O - 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)
```

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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: 0/0 (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 runs, 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 runs, 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 runs, 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 runs, 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 runs, 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, L1 - 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#

What is the correct statement below after examining the R1 routing table?

- A. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 because the static route AD that is configured is less than the AD of RIPv2
- B. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route because the static route AD that is configured is higher than the AD of RIPv2
- C. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses static route instead RIPv2 But the traffic is forwarded to the ISP instead of the internal network.
- D. Traffic that is destined to 10.10.10.0/24 from R1 LAN network uses RIPv2 instead static route because the static route AD that is configured is 255

Correct Answer: B

Surely we have to use the "show ip route" command to check the R1 routing table.





```

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, 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

```

As we see here, 10.10.10.24 is learned from RIP. Notice that although there is a static route on R1 to this destination (you can check with the "show running-config" on R1 to see the line "ip route 10.10.10.0 255.255.255.0 172.16.14.2 200"), this static route is not installed to the routing table because it is not the best path because the Administrative Distance (AD) of this static route is 200 while the AD of RIP is 120 -> R1 chose the path with lowest AD so it chose path advertised via RIP.

## QUESTION 2

### DRAG DROP

Drag and drop the Ethernet types from the left onto the correct service descriptions on the right.

Select and Place:



100Base-FX	provides 100 Mbps over copper segments up to 100 meters long
100Base-TX	provides 100 Mbps over fiber segments up to 412 meters long
1000Base-LX	provides 10 Gbps over copper segments up to 100 meters long
1000Base-SX	provides 1 Gbps over fiber segments up to 550 meters long
1000Base-T	provides 1 Gbps over fiber segments up to 10 kilometers long
10GBase-T	provides 1 Gbps over copper segments up to 100 meters long

Correct Answer:

	100Base-TX
	100Base-FX
	10GBase-T
	1000Base-SX
	1000Base-LX
	1000Base-T

### QUESTION 3

Which protocol verifies connectivity between two switches that are configured with IP addresses in the same network?

- A. ICMP
- B. STP
- C. VTP
- D. HSRP

Correct Answer: A



#### QUESTION 4

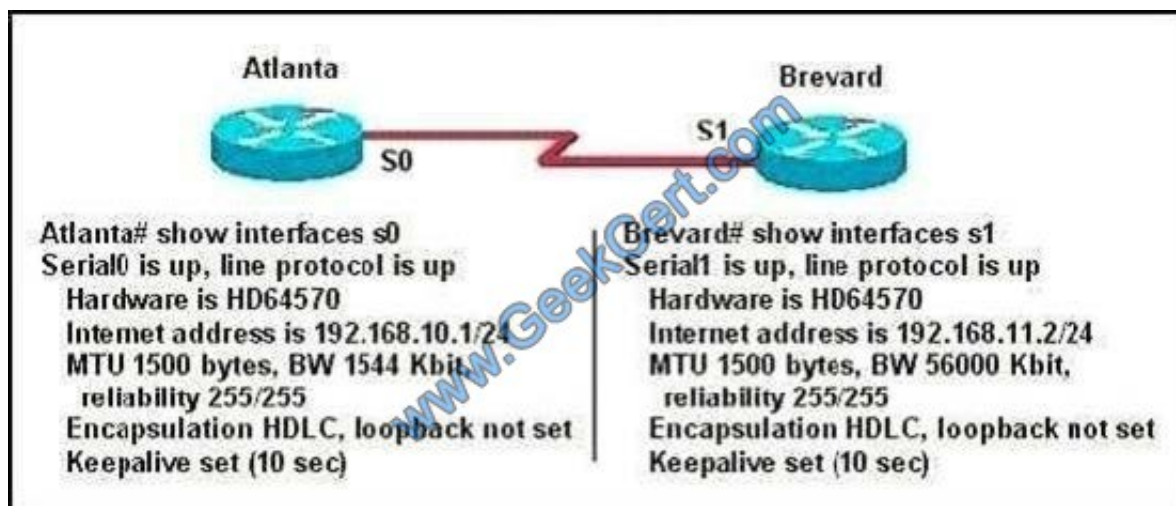
When you configure router# ipnat pool 10.10.10.1 10.10.10.20 255.255.255.0

- A. nat pool
- B. dynamic nat
- C. nat translation
- D. dhcp pool

Correct Answer: B

#### QUESTION 5

Two routers named Atlanta and Brevard are connected by their serial interfaces as shown in the exhibit, but there is no data connectivity between them. The Atlanta router is known to have a correct configuration.



Given the partial configurations shown in the exhibit, what is the problem on the Brevard router that is causing the lack of connectivity?

- A. A loopback is not set.
- B. The IP address is incorrect.
- C. The subnet mask is incorrect.
- D. The serial line encapsulations are incompatible.
- E. The maximum transmission unit (MTU) size is too large.
- F. The bandwidth setting is incompatible with the connected interface.

Correct Answer: B



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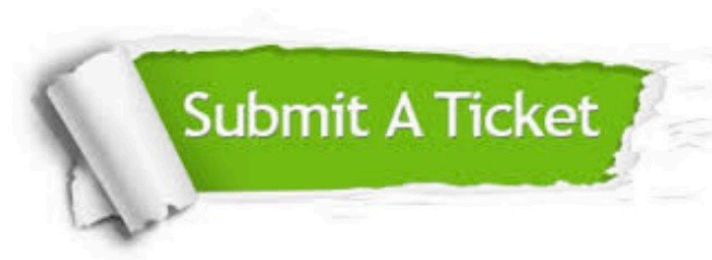
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