100-105 Q&As

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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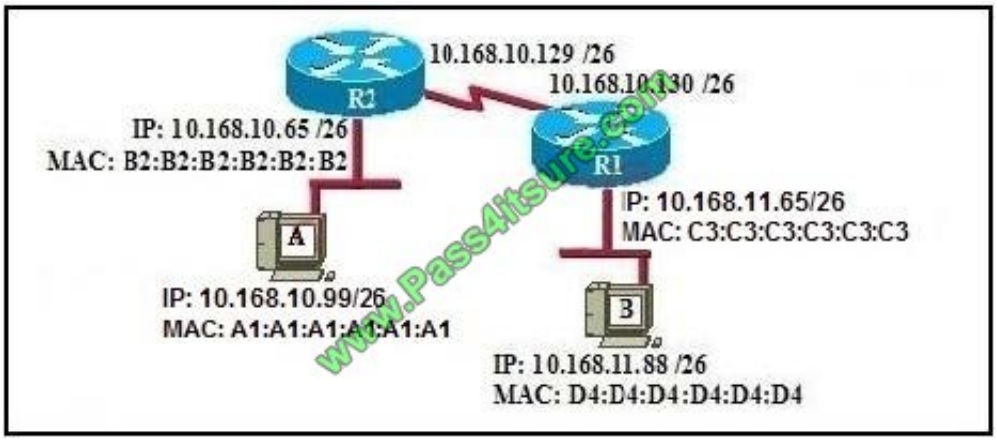
QUESTION 1

Refer to the exhibit.



If host A sends an IP packet to host B, what will the source physical address be in the frame when it reaches host B?

A. 10.168.10.99

B. 10.168.11.88

C. A1:A1:A1:A1:A1:A1

D. B2:B2:B2:B2:B2:B2

E. C3:C3:C3:C3:C3:C3

F. D4:D4:D4:D4:D4:D4

Correct Answer: E

When packets transfer from one host to another across a routed segment, the source IP address always remains the same source IP address, and the source physical (MAC) address will be the existing router\\'s interface address. Similarly, the destination IP address always remains the same and the destination physical (MAC) address is the destination router\\'s interface address.

QUESTION 2

When is a routing table entry identified as directly connected?

A. when the local router is in use as the network default gateway

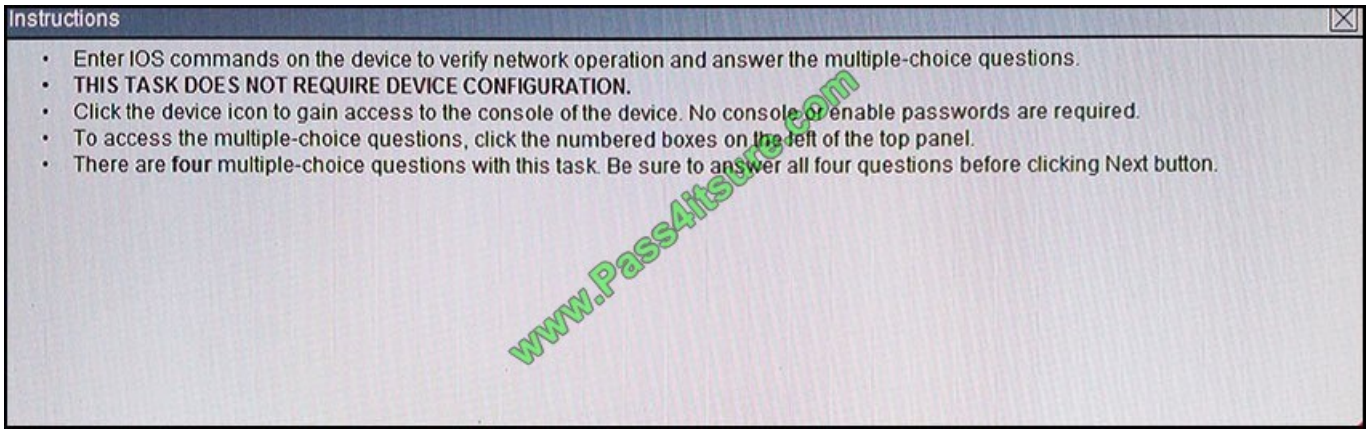
B. when the network resides on a remote router that is physically connected to the local router

C. when an interface on the route is configure with an ip address and enabled

D. when the route is statically assigned to reach a specific network

Correct Answer: C

QUESTION 3


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 button.
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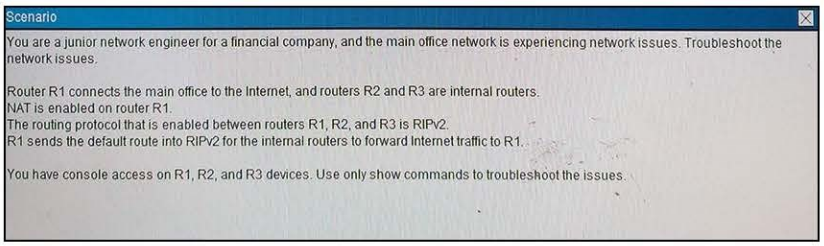

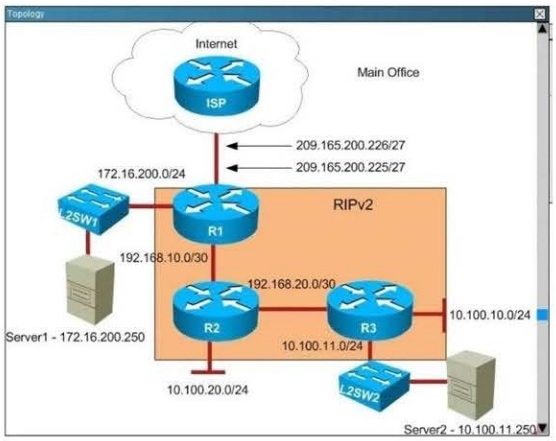

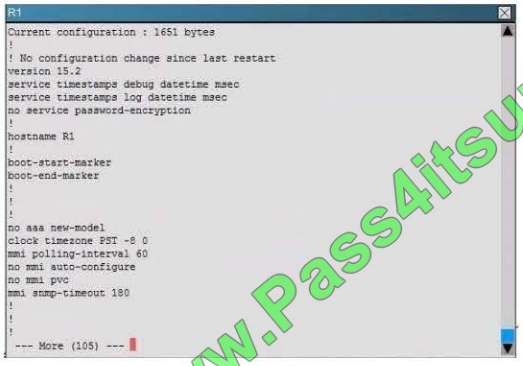

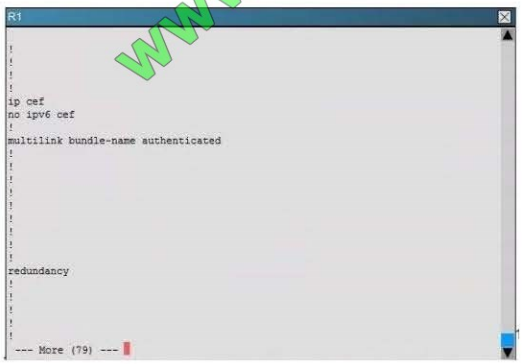

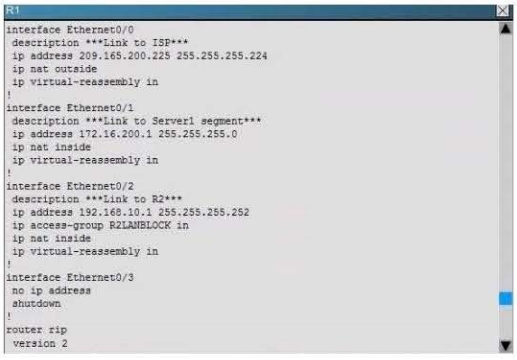

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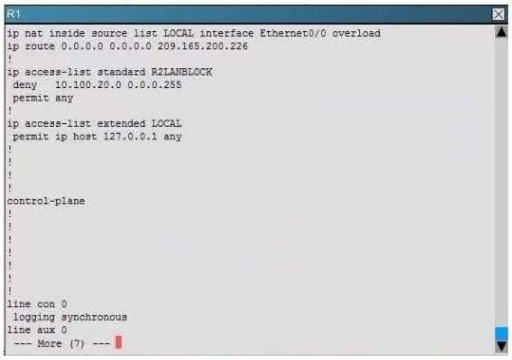
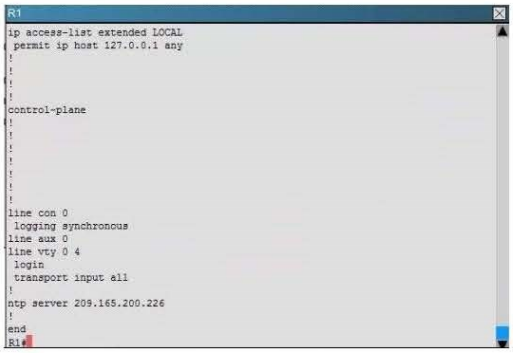

R1
ip nat inside source list LOCAL interface Ethernet0/0 overload
ip route 0.0.0.0 0.0.0.0 209.165.200.226
!
ip access-list standard R2LANBLOCK
 deny   10.100.20.0 0.0.0.255
 permit any
!
ip access-list extended LOCAL
 permit ip host 127.0.0.1 any
!
!
!
!
control-plane
!
!
!
!
!
!
!
line con 0
 logging synchronous
line aux 0
 --- More (7) ---


R1
ip access-list extended LOCAL
 permit ip host 127.0.0.1 any
!
!
!
!
control-plane
!
!
!
!
!
!
!
line con 0
 logging synchronous
line aux 0
line vty 0 4
 login
 transport input all
!
ntp server 209.165.200.226
!
end
R1#

R2
Building configuration...
Current configuration : 1243 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
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
!
!
 --- More (92) ---
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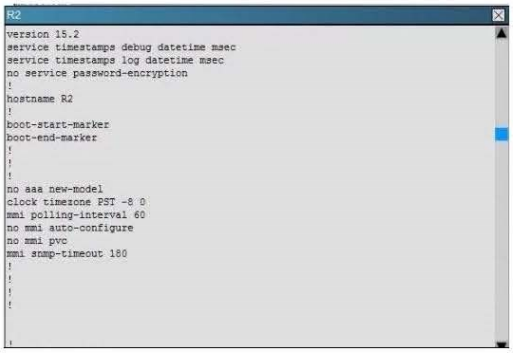
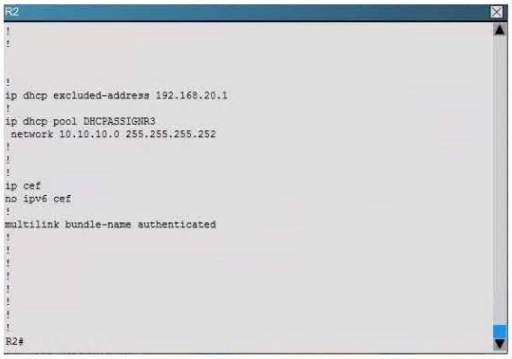
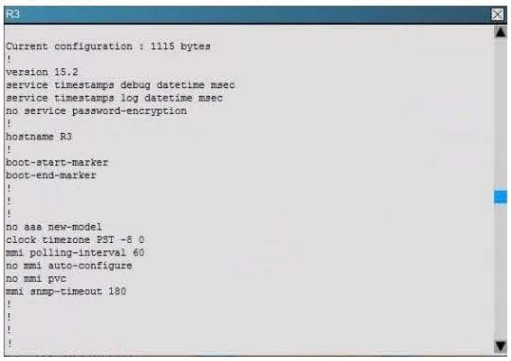
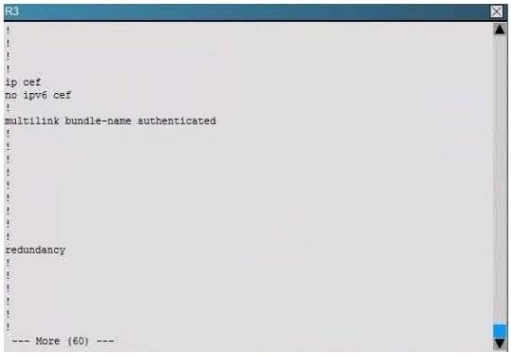
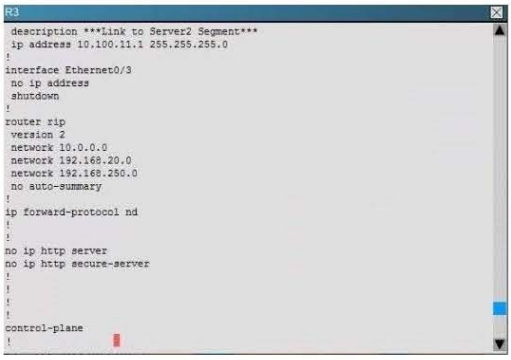

R2
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R2
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
!
!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


R2
!
!
!
ip dhcp excluded-address 192.168.20.1
!
ip dhcp pool DHCPASSIGNR3
 network 10.10.10.0 255.255.255.252
!
!
!
ip cef
no ipv6 cef
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
R2#







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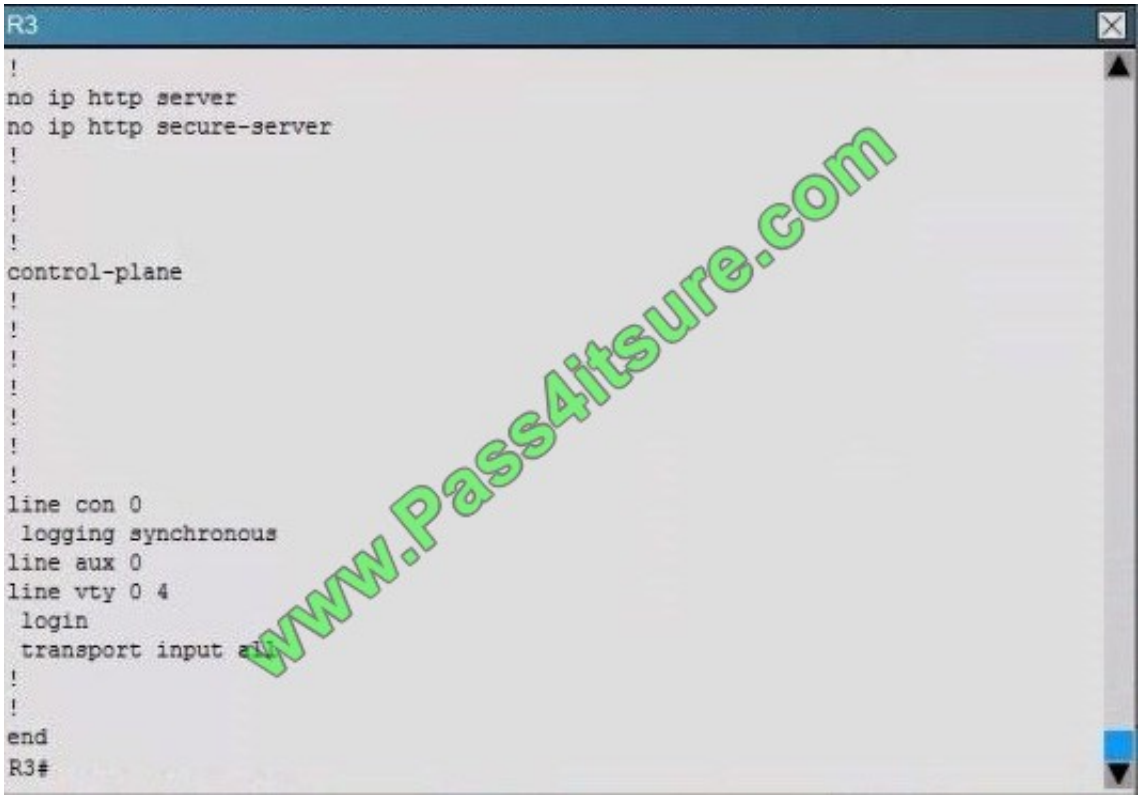

Users complain that they are unable to reach Internet sites. You are troubleshooting Internet connectivity problem at main office. Which statement correctly identifies the problem on Router R1?

A. Interesting traffic for NAT ACL is incorrectly configured.

B. NAT configurations in the interfaces are incorrectly configured.

C. NAT translation statement incorrectly configured.

D. Only static NAT translation configured for the server, missing Dynamic NAT or Dynamic NAT overloading for internal networks.

Correct Answer: B

If all users cannot access the Internet, then R1 is most likely to cause the problem so we should check it first. From the "show running-config" command we will see:

```
R1# show running-config
<output omitted>

interface Ethernet0/0
 description Link to ISP
 ip address 209.165.200.225 255.255.255.224
 ip nat inside
 ip virtual-reassembly in
!
interface Ethernet0/1
 description Link to Server 1
 ip address 172.16.200.1 255.255.255.0
 ip nat outside
 ip virtual-reassembly in
!
interface Ethernet0/2
 description Link to R2
 ip address 192.168.10.1 255.255.255.252
 ip nat outside
 ip virtual-reassembly in
```

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Here we see that interface E0/0 (connected to ISP) has been configured as "nat inside" while interfaces E0/1 and E0/2 (connected to our company) have been configured as "nat outside". This is not correct because "nat inside" should be configured with interfaces connected to our company while "nat outside" should be configured with interfaces connected to the internet. Therefore, we can conclude the NAT configuration on these interfaces is not correct.

QUESTION 4

Which statement about wireless access points is true?

A. They are Layer 2 devices that are used to extend a LAN to wireless clients.

B. They provide full duplex connectivity to host devices.

C. They are used as routers between LANs in a wireless network.

D. They are used to physically connect host devices to the wireless network.

Correct Answer: A

QUESTION 5

Which two IPv6 multicast groups are joined when an IPv6 address is configured on an interface? (Choose two.)

A. FF02::2

B. 2002::5

C. FF80::6

D. FF80::5

E. FF02::1

Correct Answer: AE

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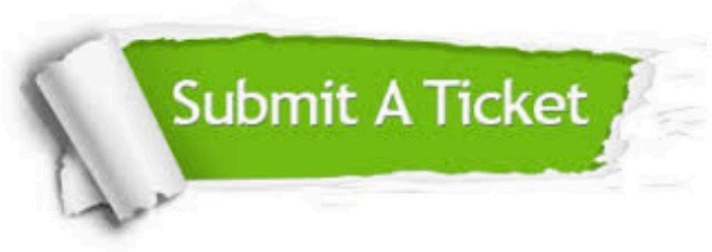

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