

EXAM PREPARATION MATERIAL

Practice files designed to help you understand exam patterns, question styles and the overall assessment format.

IMPORTANT NOTE



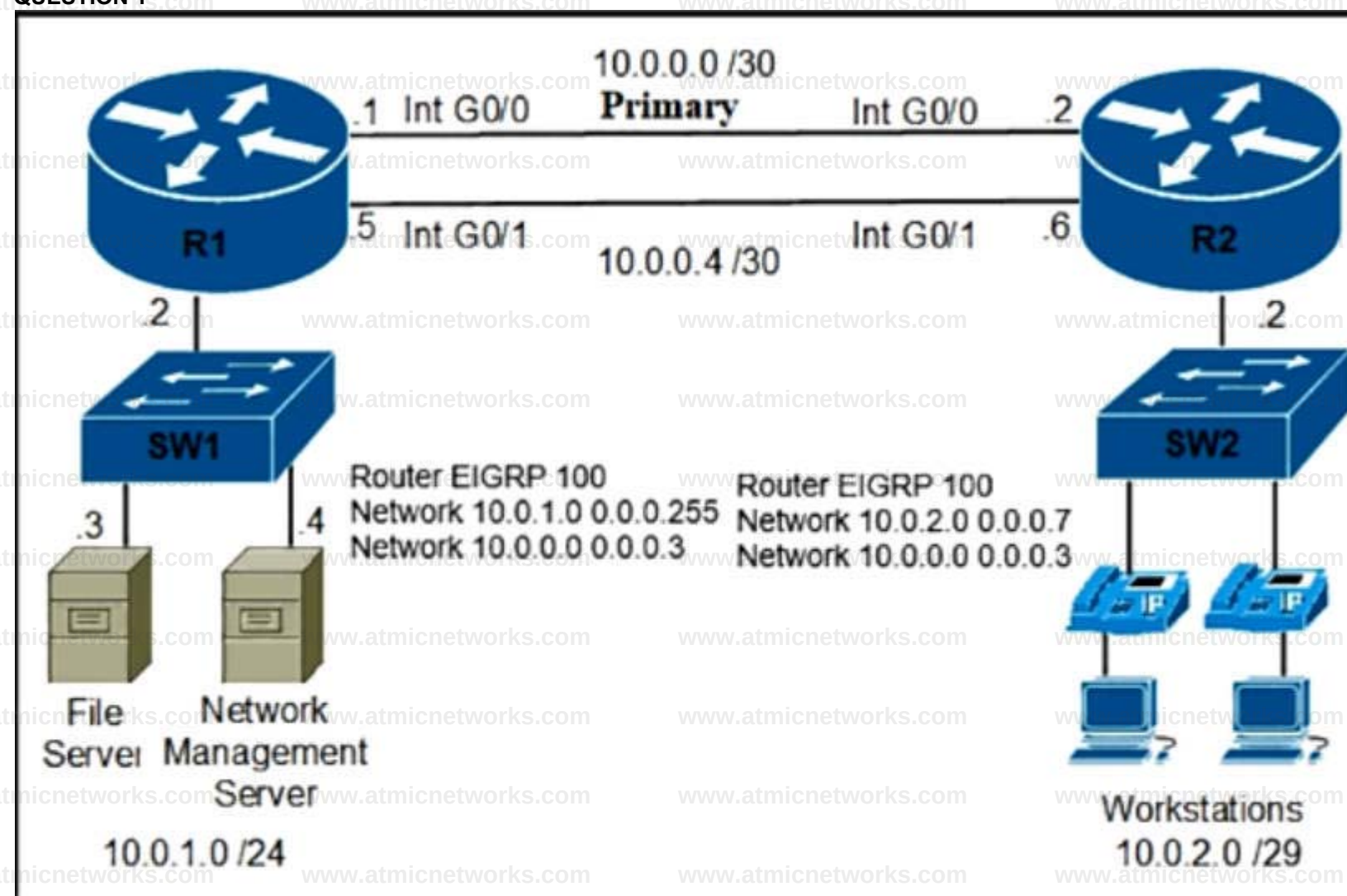
Please note that these files may not be up to date. However, the questions will help you understand the exam format and typical question patterns.



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Exam A

QUESTION 1



Refer to the exhibit. A secondary route is required on router R1 to pass traffic to the LAN network on R2 if the primary link fails. Which command must be entered to configure the router?

- A. ip route 10.0.2.0 255.255.255.248 null0 93
- B. ip route 10.0.2.0 255.255.255.248 10.0.0.6 91
- C. ip route 10.0.2.0 255.255.255.240 10.0.0.7 92
- D. ip route 10.0.2.0 255.255.255.240 10.0.0.6 91

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

```

R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route
Gateway of last resort is 192.168.30.10 to network 0.0.0.0
192.168.30.0/29 is subnetted, 2 subnets
C    192.168.30.0 is directly connected, FastEthernet0/0
C    192.168.30.8 is directly connected, Serial0/0.1
192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
O IA  192.168.10.32/28 [110/193] via 192.168.30.10, 00:18:49, Serial0/0.1
O IA  192.168.10.0/27 [110/192] via 192.168.30.10, 00:18:49, Serial0/0.1
192.168.20.0/30 is subnetted, 1 subnets
O IA  192.168.20.0 [110/128] via 192.168.30.10, 00:18:49, Serial0/0.1
192.168.50.0/32 is subnetted, 1 subnets
C    192.168.50.1 is directly connected, Loopback0
O*IA  0.0.0.0/0 [110/84] via 192.168.30.10, 00:10:36, Serial0/0.1

```

Refer to the exhibit. What is the metric for the route to the 192.168.10.33 host?

- A. 84
- B. 110
- C. 192
- D. 193

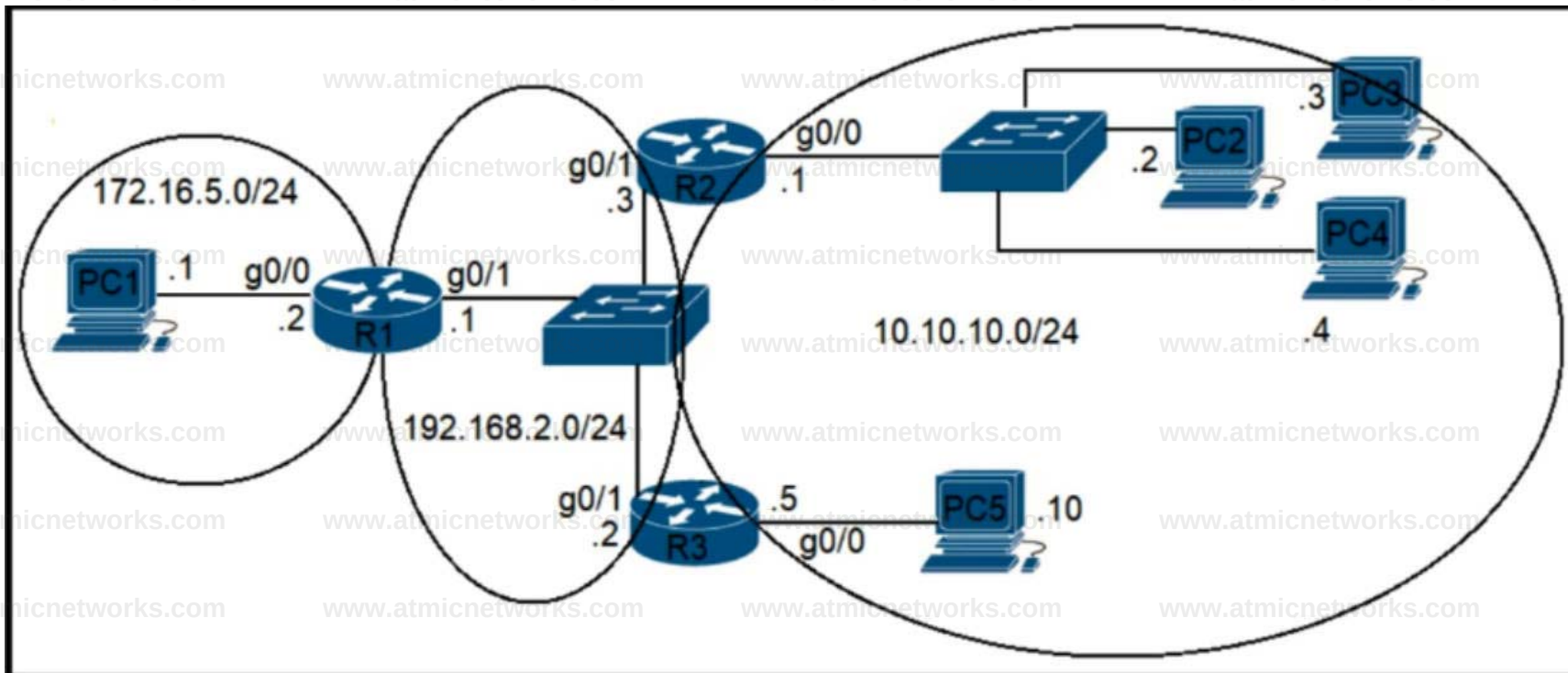
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3



Refer to the exhibit. The router R1 is in the process of being configured. Routers R2 and R3 are configured correctly for the new environment. Which two commands must be configured on R1 for PC1 to communicate to all PCs on the 10.10.10.0/24 network? (Choose two.)

- A. ip route 10.10.10.8 255.255.255.248 g0/1
- B. ip route 10.10.10.10 255.255.255.255 g0/1
- C. ip route 10.10.10.0 255.255.255.248 192.168.2.2
- D. ip route 10.10.10.0 255.255.255.0 192.168.2.3
- E. ip route 10.10.10.10 255.255.255.255 192.168.2.2

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Which set of actions satisfy the requirement for multifactor authentication?

- A. The user swipes a key fob, then clicks through an email link.
- B. The user enters a user name and password, and then clicks a notification in an authentication app on a mobile device.
- C. The user enters a PIN into an RSA token, and then enters the displayed RSA key on a login screen.
- D. The user enters a user name and password, and then re-enters the credentials on a second screen.

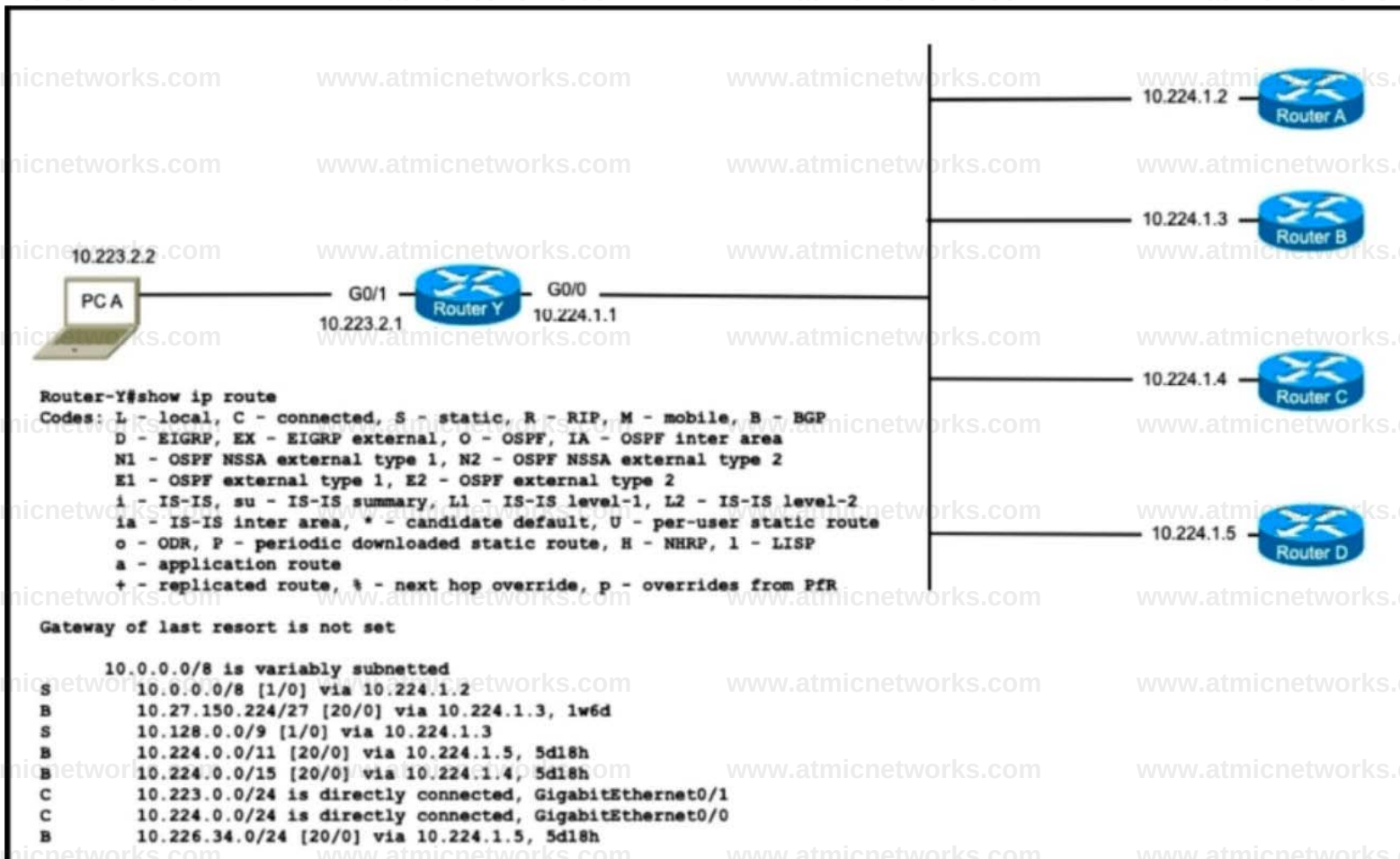
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5



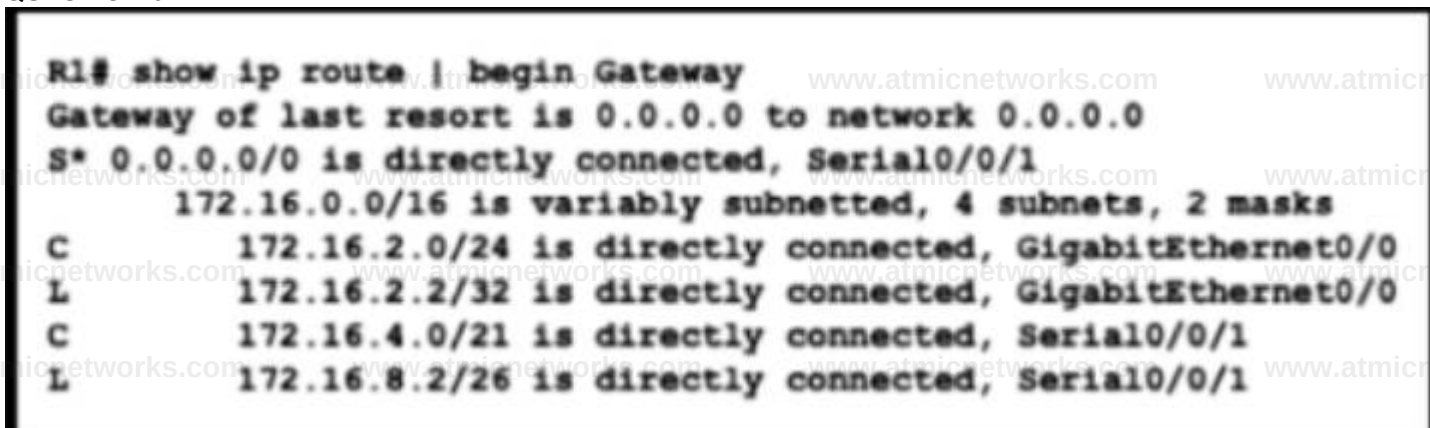
Refer to the exhibit. PC A is communicating with another device at IP address 10.227.225.255. Through which router does router Y route the traffic?

- A. router A
- B. router B
- C. router C
- D. router D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6



Refer to the exhibit. What is the subnet mask for route 172.16.4.0?

- A. 255.255.254.0
- B. 255.255.255.192
- C. 255.255.240.0
- D. 255.255.248.0

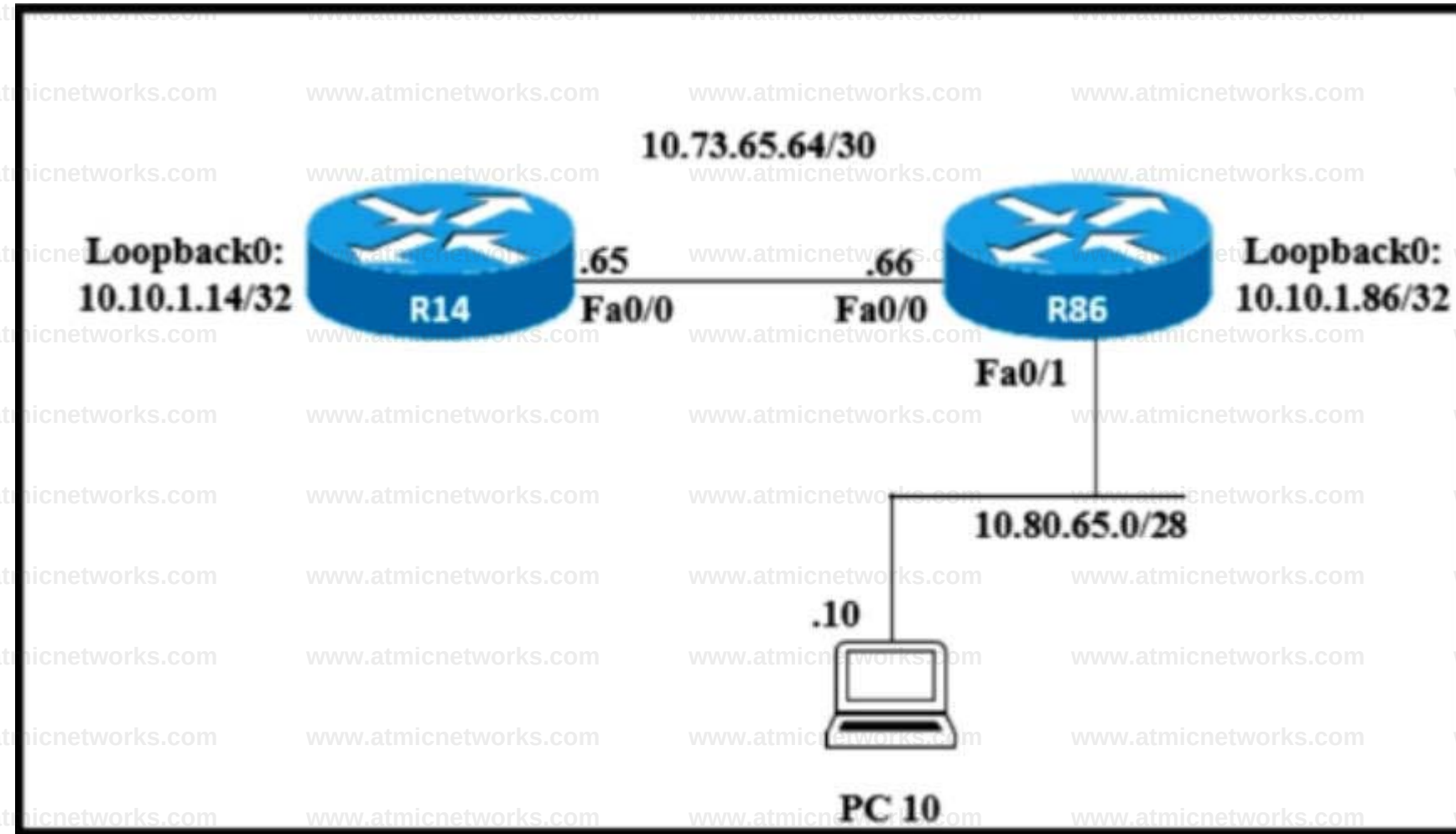
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7



Refer to the exhibit. Router R14 is in the process of being configured. Which configuration must be used to establish a host route to PC 10?

- A. ip route 10.80.65.10 255.255.255.255 10.73.65.66
- B. ip route 10.73.65.66 0.0.0.255 10.80.65.10
- C. ip route 10.73.65.65 255.0.0.0 10.80.65.10
- D. ip route 10.80.65.10 255.255.255.254 10.80.65.1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

When an access point is seeking to join a wireless LAN controller, which message is sent to the AP-Manager interface?

- A. discovery response
- B. discovery request
- C. DHCP discover
- D. DHCP request

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

An engineer is configuring a switch port that is connected to a VoIP handset. Which command must the engineer configure to enable port security with a manually assigned MAC address of abcd.abcd.abcd on voice VLAN 4?

- A. switchport port-security mac-address abcd.abcd.abcd vlan voice
- B. switchport port-security mac-address abcd.abcd.abcd
- C. switchport port-security mac-address abcd.abcd.abcd vlan 4
- D. switchport port-security mac-address sticky abcd.abcd.abcd vlan 4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10



Refer to the exhibit. What is represented in line 2 of the JSON schema?

- A. key
- B. value
- C. object
- D. array

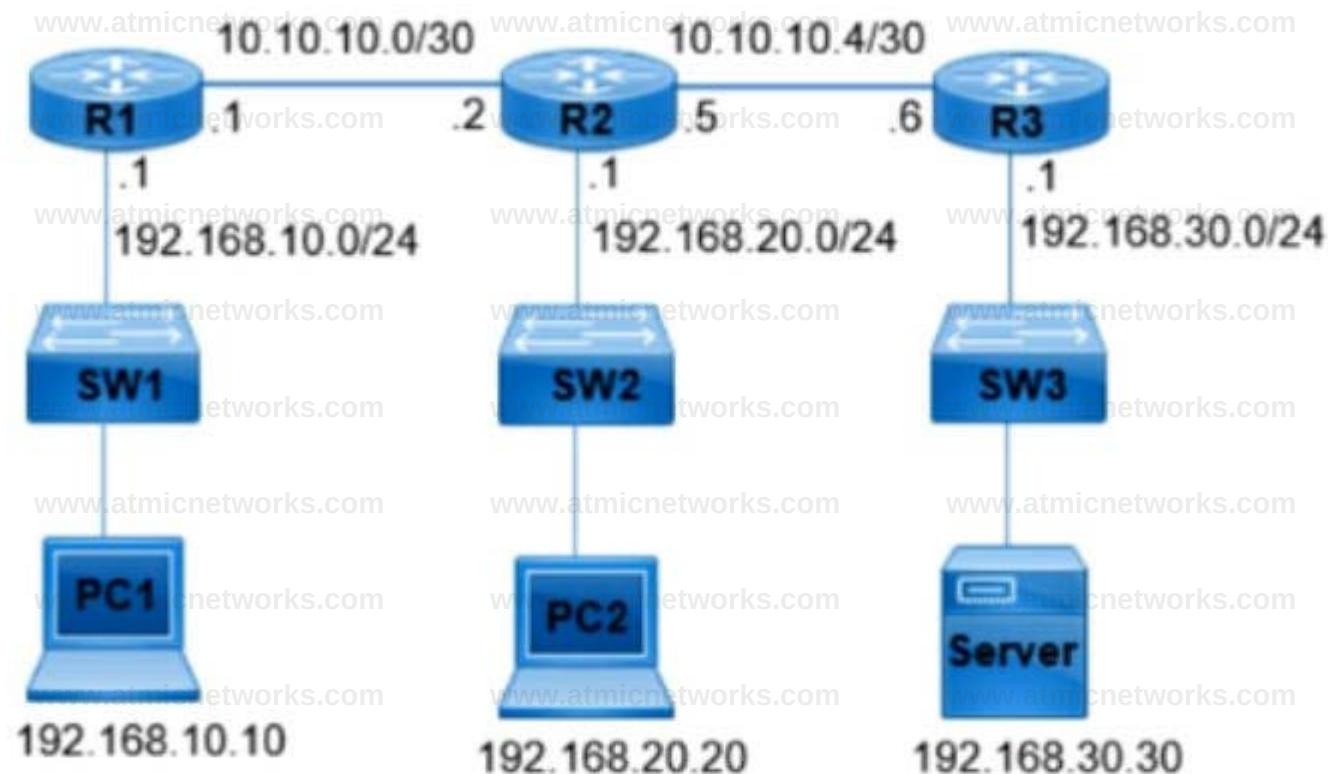
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11



```
R2# show ip route
10.0.0.0/30 is subnetted, 2 subnets
C 10.10.10.0 is directly connected, Serial0/0/0
C 10.10.10.4 is directly connected, FastEthernet0/1
D 192.168.10.0/24 [90/2172416] via 10.10.10.1, 01:05:11, Serial0/0/0
C 192.168.20.0/24 is directly connected, FastEthernet0/0
D 192.168.30.0/24 [90/30720] via 10.10.10.6, 01:12:53, FastEthernet0/1
```

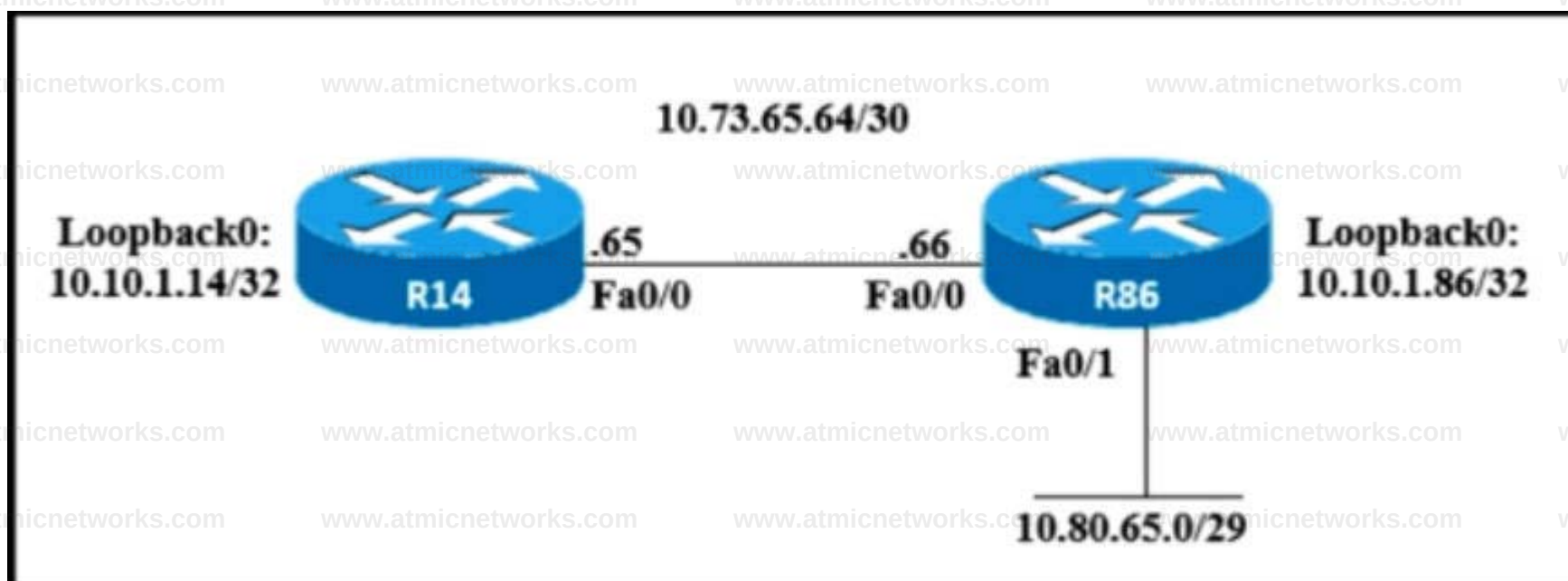
Refer to the exhibit. What is the next-hop IP address for R2 so that PC2 reaches the application server via EIGRP?

- A. 10.10.10.6
- B. 192.168.30.1
- C. 192.168.20.1
- D. 10.10.10.5

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12



Refer to the exhibit. An engineer must configure a floating static route on an external EIGRP network. The destination subnet is the /29 on the LAN interface of R86. Which command must be executed on R14?

- A. ip route 10.80.65.0 255.255.248.0 10.73.65.66 1
- B. ip route 10.80.65.0 255.255.255.240 fa0/1 89
- C. ip route 10.80.65.0 255.255.255.248 10.73.65.66 171
- D. ip route 10.73.65.66 0.0.0.224 10.80.65.0 255

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

```
SW1#show spanning-tree vlan 30

VLAN0030
Spanning tree enabled protocol rstp
Root ID    Priority    32798
            Address      0025.63e9.c800
            Cost         19
            Port         1 (FastEthernet 2/1)
            Hello Time    2 sec
            Max Age       30 sec
            Forward Delay 20 sec

[Output suppressed]
```

Refer to the exhibit. What are two conclusions about this configuration? (Choose two.)

- A. The spanning-tree mode is PVST+.
- B. The spanning-tree mode is Rapid PVST+.
- C. The designated port is FastEthernet 2/1.
- D. This is a root bridge.
- E. The root port is FastEthernet 2/1.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

What are two protocols within the IPsec suite? (Choose two.)

- A. 3DES
- B. AES
- C. ESP
- D. TLS
- E. AH

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Which two conditions must be met before SSH operates normally on a Cisco IOS switch? (Choose two.)

- A. IP routing must be enabled on the switch.
- B. The ip domain-name command must be configured on the switch.
- C. The switch must be running a k9 (crypto) IOS image.
- D. Telnet must be disabled on the switch.
- E. A console password must be configured on the switch.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

```
SW1#show run
Building configuration...

!
hostname SW1
!
ip domain-name CCNA-test
!
username CCNA privilege 1 password 0 cisco123
!
interface FastEthernet0/1
 switchport access vlan 10
!
interface Vlan10
 ip address 192.168.1.2 255.255.255.0
!
line vty 0 4
 login local
 transport input telnet
line vty 5 15
 login local
 transport input telnet

SW1#show crypto key mypubkey rsa
% Key pair was generated at: 0:1:23 UTC Mar 1 2020
Key name: SW1.CCNA-test
```

Refer to the exhibit. An engineer is updating the management access configuration of switch SW1 to allow secured, encrypted remote configuration. Which two commands or sequences must the engineer apply to the switch? (Choose two.)

- A. SW1(config)#enable secret ccnaTest123

- B. SW1(config)#line vty 0 15
SW1(config-line)#transport input ssh
- C. SW1(config)# interface f0/1
SW1(config-if)# switchport mode trunk
- D. SW1(config)# crypto key generate rsa
- E. SW1(config)# username NEW secret R3mote123

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

What is the functionality of the Cisco DNA Center?

- A. data center network policy controller
- B. IP address pool distribution scheduler
- C. software-defined controller for automation of devices and services
- D. console server that permits secure access to all network devices

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R1
R1(config)#ip domain-name CC-Net.com
R1(config)#enable secret Passfornewuser
R1(config)#line vty 0 15
R1(config-line)#transport input ssh
R1(config-line)#login local
```

Refer to the exhibit. A network administrator is configuring a router for user access via SSH. The service-password encryption command has been issued. The configuration must meet these requirements:

Create the username as CCUser.

Create the password as NA!2\$cc.

Encrypt the user password.

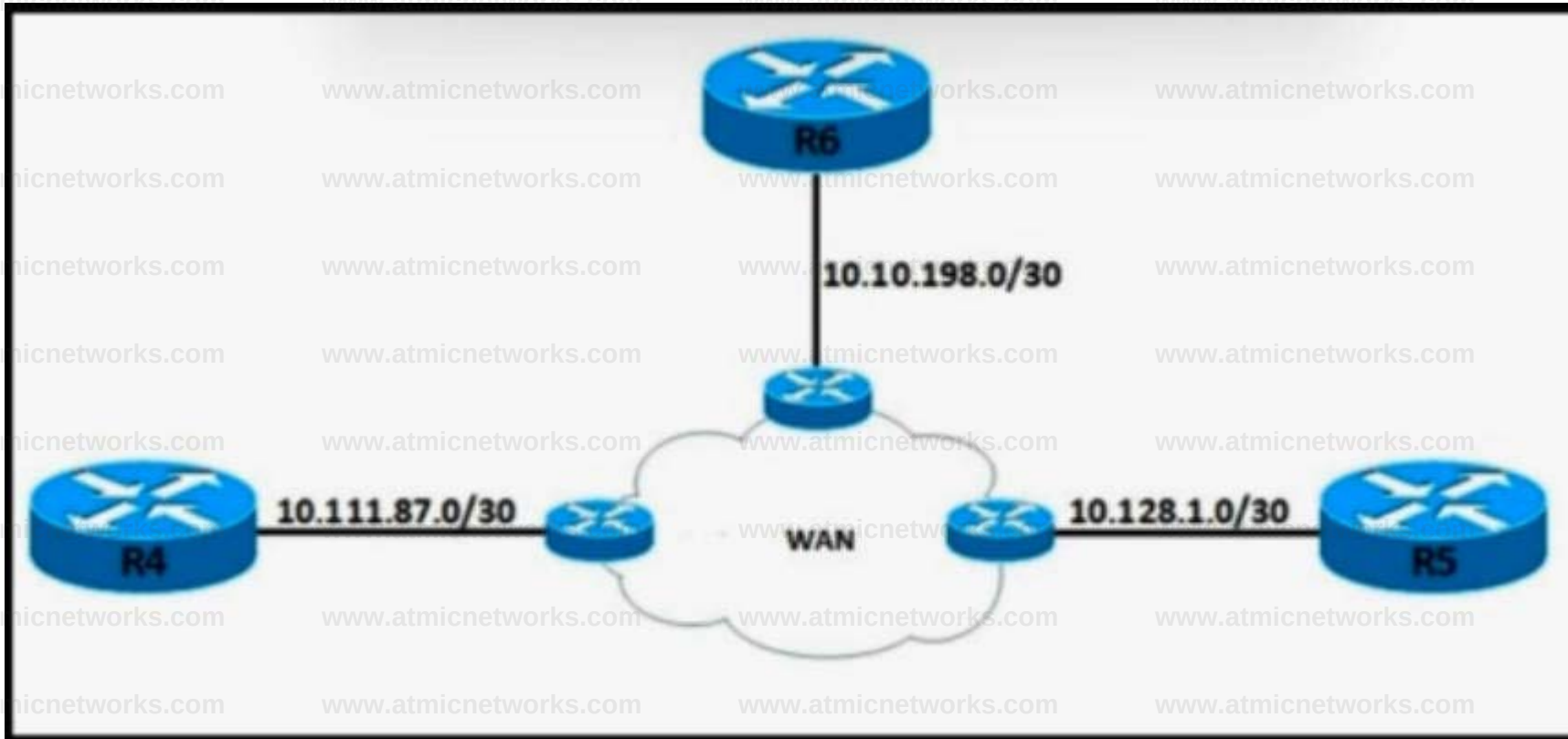
What must be configured to meet the requirements?

- A. username CCUser privilege 15 password NA!2\$cc
enable secret 0 NA!2\$cc
- B. username CCUser secret NA!2\$cc
- C. username CCUser privilege 10 password NA!2\$cc
- D. username CCUser password NA!2\$cc
enable password level 5 NA!2\$cc

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19



Refer to the exhibit. Local access for R4 must be established and these requirements must be met:

- Only Telnet access is allowed.
 - The enable password must be stored securely.
 - The enable password must be applied in plain text.
 - Full access to R4 must be permitted upon successful login
- Which configuration script meets the requirements?!

A.

```
!
conf t
!
username test1 password testpass1
enable secret level 15 0 Test123
!
line vty 0 15
login local
transport input telnet
```

B.

```
!
config t
!
username test1 password testpass1
enable password level 15 0 Test123
!
line vty 0 15
password Test123
transport input all
```

C.

```
!
config t
```




```
SW# conf t
SW(config)#interface gigabitEthernet0/1
SW(config-if)#switchport mode access
SW(config-if)#switchport port-security
SW(config-if)#
```

Refer to the exhibit. A network engineer started to configure port security on a new switch. These requirements must be met:

- MAC addresses must be learned dynamically.
- Log messages must be generated without disabling the interface when unwanted traffic is seen.

Which two commands must be configured to complete this task? (Choose two.)

- A. SW(config-if)#switchport port-security violation restrict
- B. SW(config-if)#switchport port-security mac-address sticky
- C. SW(config-if)#switchport port-security mac-address 0010.7B8X.XXE6
- D. SW(config-if)#switchport port-security violation shutdown
- E. SW(config-if)#switchport port-security maximum 2

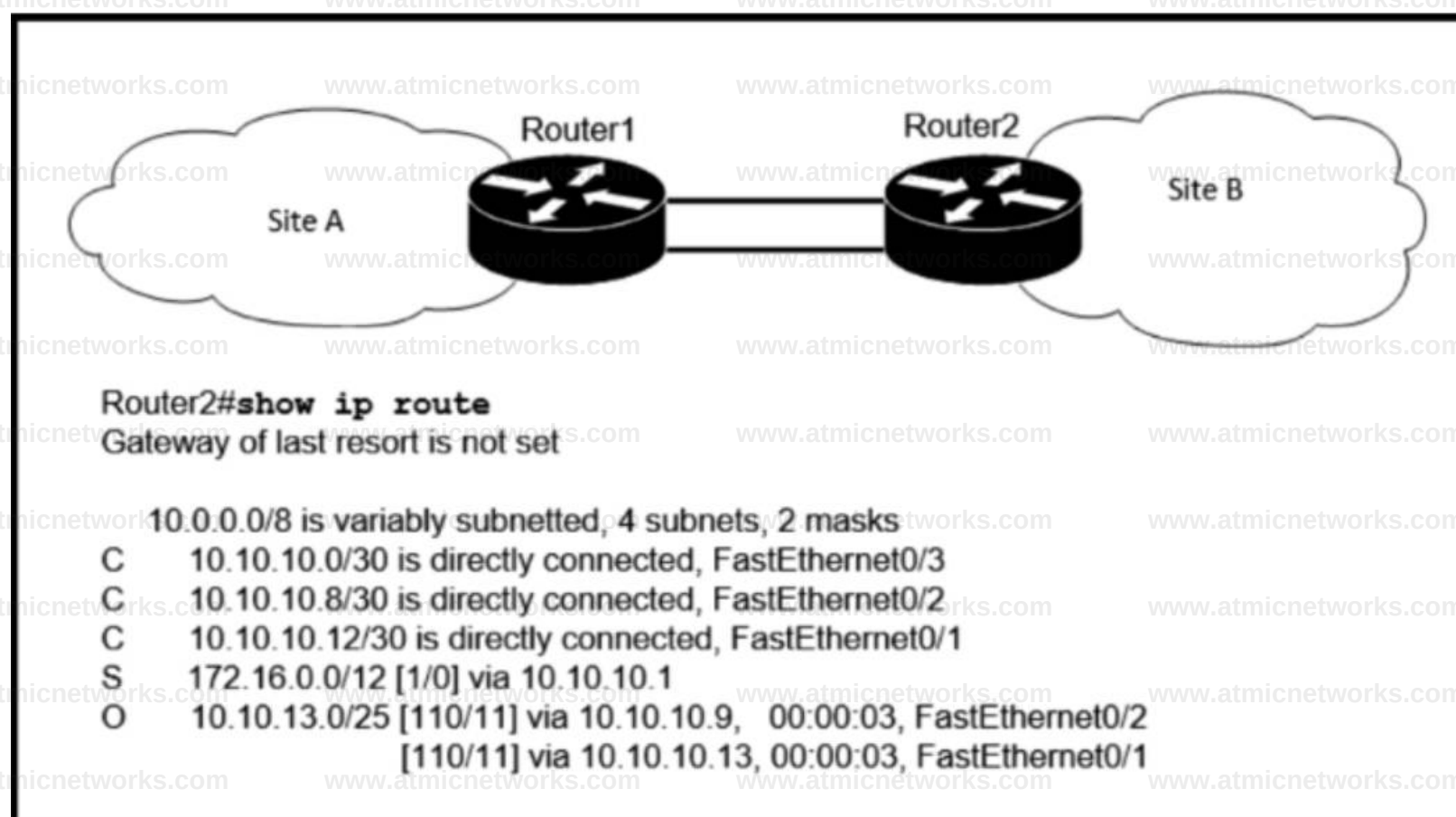
Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22



Refer to the exhibit. User traffic originating within site B is failing to reach an application hosted on IP address 192.168.0.10, which is located within site A. What is determined by the routing table?

- A. The traffic is blocked by an implicit deny in an ACL on router2.
- B. The default gateway for site B is configured incorrectly.
- C. The traffic to 192.168.0.10 requires a static route to be configured in router1.
- D. The lack of a default route prevents delivery of the traffic.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

SIP-based Call Admission Control must be configured in the Cisco WLC GUI. SIP call-snooping ports are configured. Which two actions must be completed next? (Choose two.)

- A. Enable traffic shaping for the LAN interface of the WLC.
- B. Enable Media Session Snooping on the WLAN
- C. Configure two different QoS roles for data and voice traffic.
- D. Set the QoS level to platinum for voice traffic.
- E. Set the QoS level to silver or greater for voice traffic.

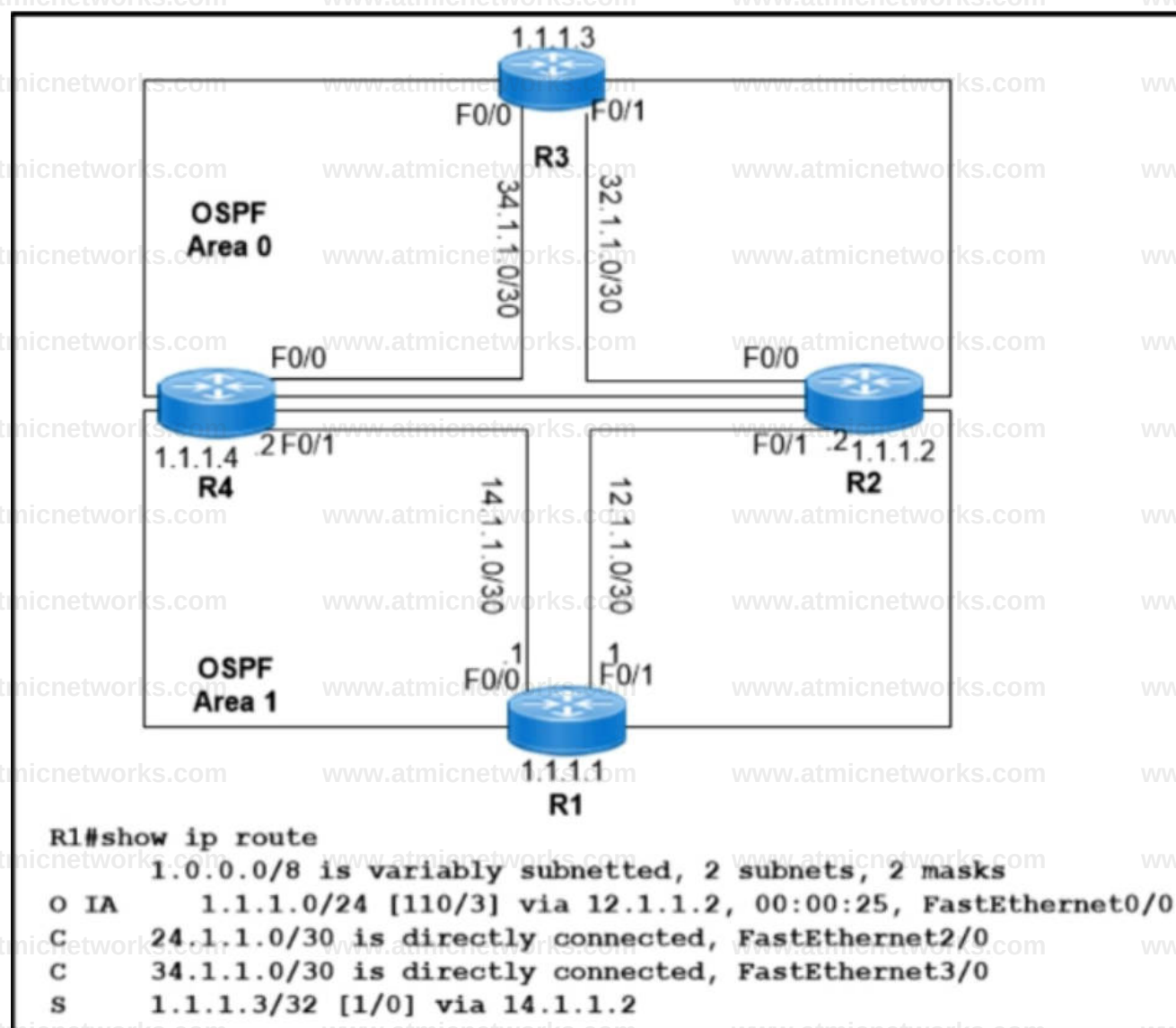
Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24



Refer to the exhibit. Which two values does router R1 use to identify valid routes for the R3 loopback address 1.1.1.3/32? (Choose two.)

- A. lowest administrative distance
- B. highest metric
- C. highest administrative distance
- D. lowest metric
- E. lowest cost to reach the next hop

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which two northbound APIs are found in a software-defined network? (Choose two.)

- A. NETCONF
- B. OpenFlow
- C. SOAP
- D. REST
- E. OpFlex

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security **6** WPA+WPA2 ▼

MAC Filtering **2** ☐

Fast Transition

Fast Transition ☐

Protected Management Frame

PMF Required ▼

WPA+WPA2 Parameters

WPA Policy ☐

WPA2 Policy ☐

WPA2 Encryption ☐ AES ☐ TKIP

OSN Policy ☐

Authentication Key Management **19**

802.1X ☐ Enable

CCKM ☐ Enable

PSK ☐ Enable

FT 802.1X ☐ Enable

FT PSK ☐ Enable

PSK Format ASCII ▼

WPA gtk-randomize State **14** Disable ▼

Refer to the exhibit. The network engineer is configuring a new WLAN and is told to use a setup password for authentication instead of the RADIUS servers. Which additional set of tasks must the engineer perform to complete the configuration?

- A. Select WPA Policy
Select WPA2 Policy
Enable FT PSK
- B. Select WPA Policy
Enable CCKM
Enable PSK
- C. Disable PMF
Enable PSK
Enable 802.1x
- D. Select WPA2 Policy
Disable PMF
Enable PSK

Correct Answer: C
Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Which channel-group mode must be configured when multiple distribution switch interfaces connected to a WLC are bundled?

- A. channel-group mode on
- B. channel-group mode desirable
- C. channel-group mode passive
- D. channel-group mode active

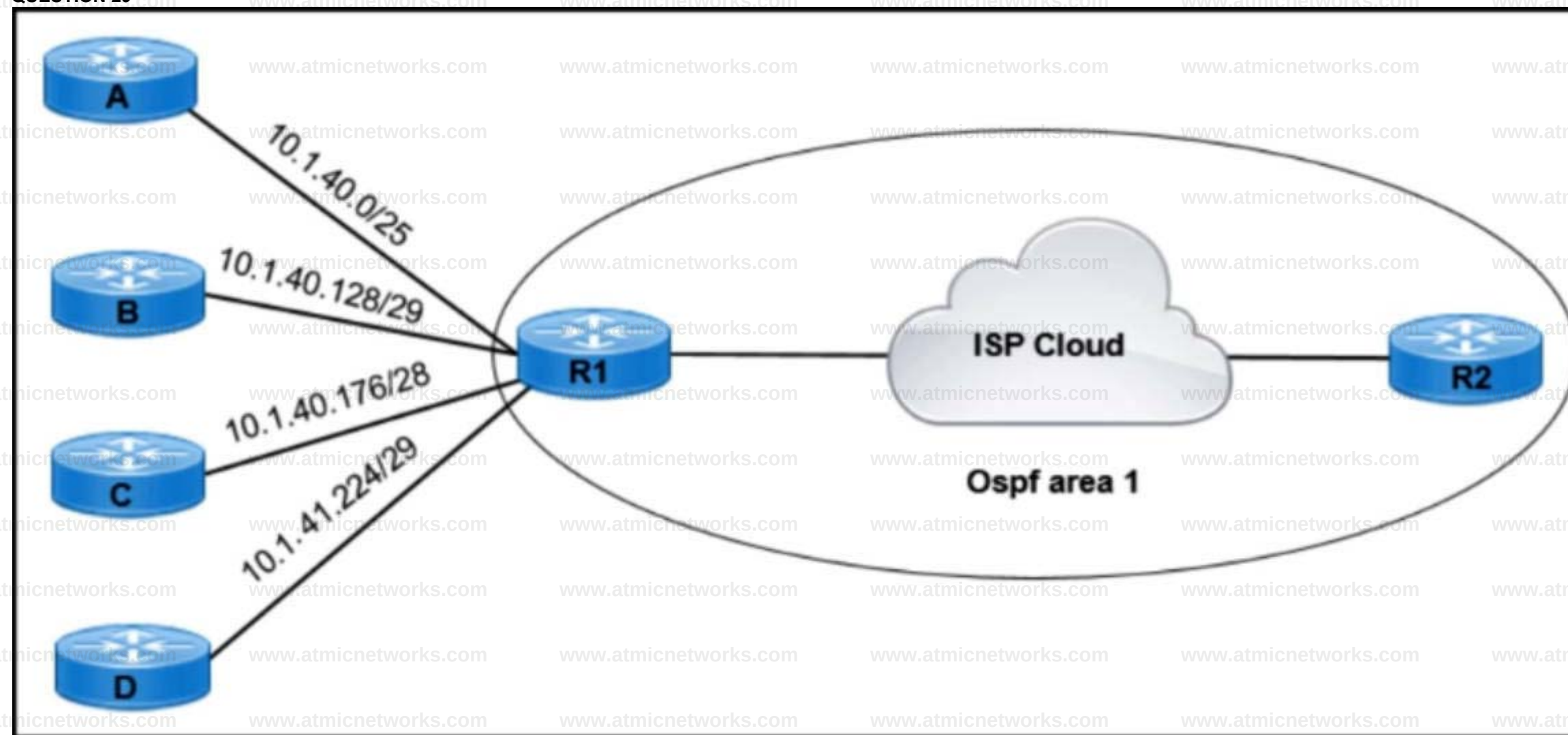
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29



Refer to the exhibit. Router R1 receives static routing updates from routers A, B, C, and D. The network engineer wants R1 to advertise static routes in OSPF area 1. Which summary address must be advertised in OSPF?

- A. 10.1.40.0/24
- B. 10.1.41.0/25
- C. 10.1.40.0/25

D. 10.1.40.0/23

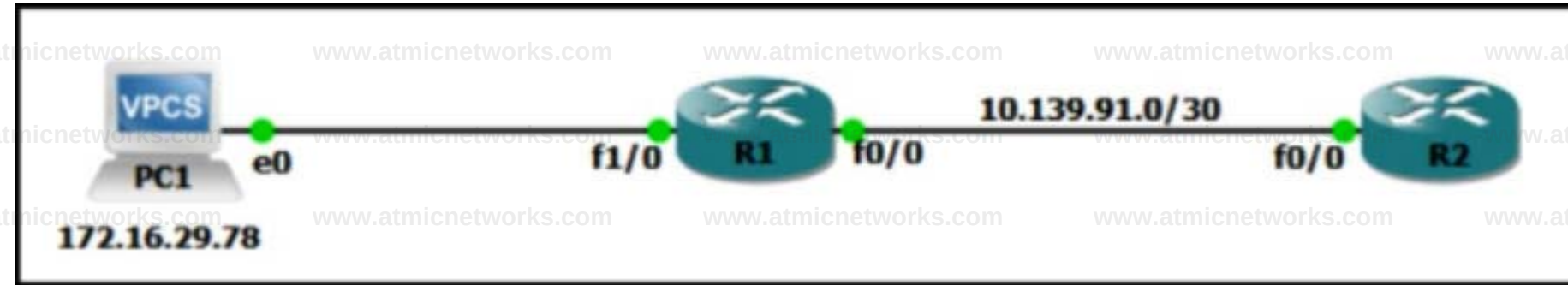
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30



Refer to the exhibit. An engineer must translate the PC1 IP address to 10.199.77.100 and permit PC1 to ping the loopback O interface on router R2. What command set must be used?

A. R1#

```
!
interface Loopback0
ip address 10.1.1.1 255.255.255.255
!
interface FastEthernet0/0
ip address 10.139.91.1 255.255.255.252
ip nat outside
ip virtual-reassembly in
!
interface FastEthernet1/0
ip address 172.16.29.1 255.255.255.0
ip nat inside
ip virtual-reassembly in
!
router eigrp 100
network 10.1.1.1 0.0.0.0
network 10.139.91.0 0.0.0.3
!
ip nat inside source static 172.16.29.78 10.199.77.100
R2#
ip route 10.199.77.100 255.255.255.255 10.139.91.1
```

B. R1#

```
!
interface Loopback0
ip address 10.1.1.1 255.255.255.255
!
interface FastEthernet0/0
ip address 10.139.91.1 255.255.255.252
ip nat inside
ip virtual-reassembly in
!
interface FastEthernet1/0
ip address 172.16.29.1 255.255.255.0
ip nat outside
ip virtual-reassembly in
!
router eigrp 100
network 10.1.1.1 0.0.0.0
network 10.139.91.0 0.0.0.3
```

Correct Answer: A
Section: (none)
Explanation
tmicnetworks.com
Explanation/Reference

An Ethernet frame arrived at switch interface G0/1, but the destination MAC address is missing from the MAC address table. How does the switch process the frame?

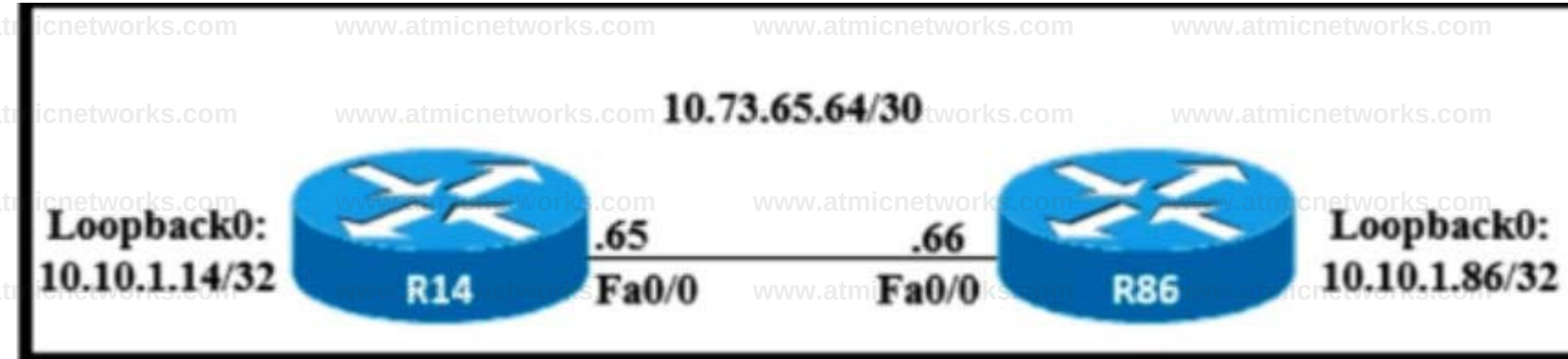
- Correct Answer: A**
Section: (none)
Explanation
tmicnetworks.com
Explanation/Reference

A network engineer is implementing a corporate SSID for WPA3-Personal security with a PSK. Which encryption cipher must be configured?

- Correct Answer: B**
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33



Refer to the exhibit. A static route must be configured on R86 to forward traffic for the 172.16.34.0/29 network, which resides on R14. Which command must be used to fulfill the request?

- A. ip route 172.16.34.0 255.255.255.248 10.73.65.65
- B. ip route 10.73.65.65 255.255.255.248 172.16.34.0
- C. ip route 172.16.34.0 255.255.255.224 10.73.65.66
- D. ip route 172.16.34.0 0.0.0.7 10.73.65.64

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which two server types support domain name to IP address resolution? (Choose two.)

- A. file transfer
- B. resolver
- C. ESX host
- D. web
- E. authoritative

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Which IP header field is changed by a Cisco device when QoS marking is enabled?

- A. Header Checksum
- B. DSCP
- C. Type of Service
- D. ECN

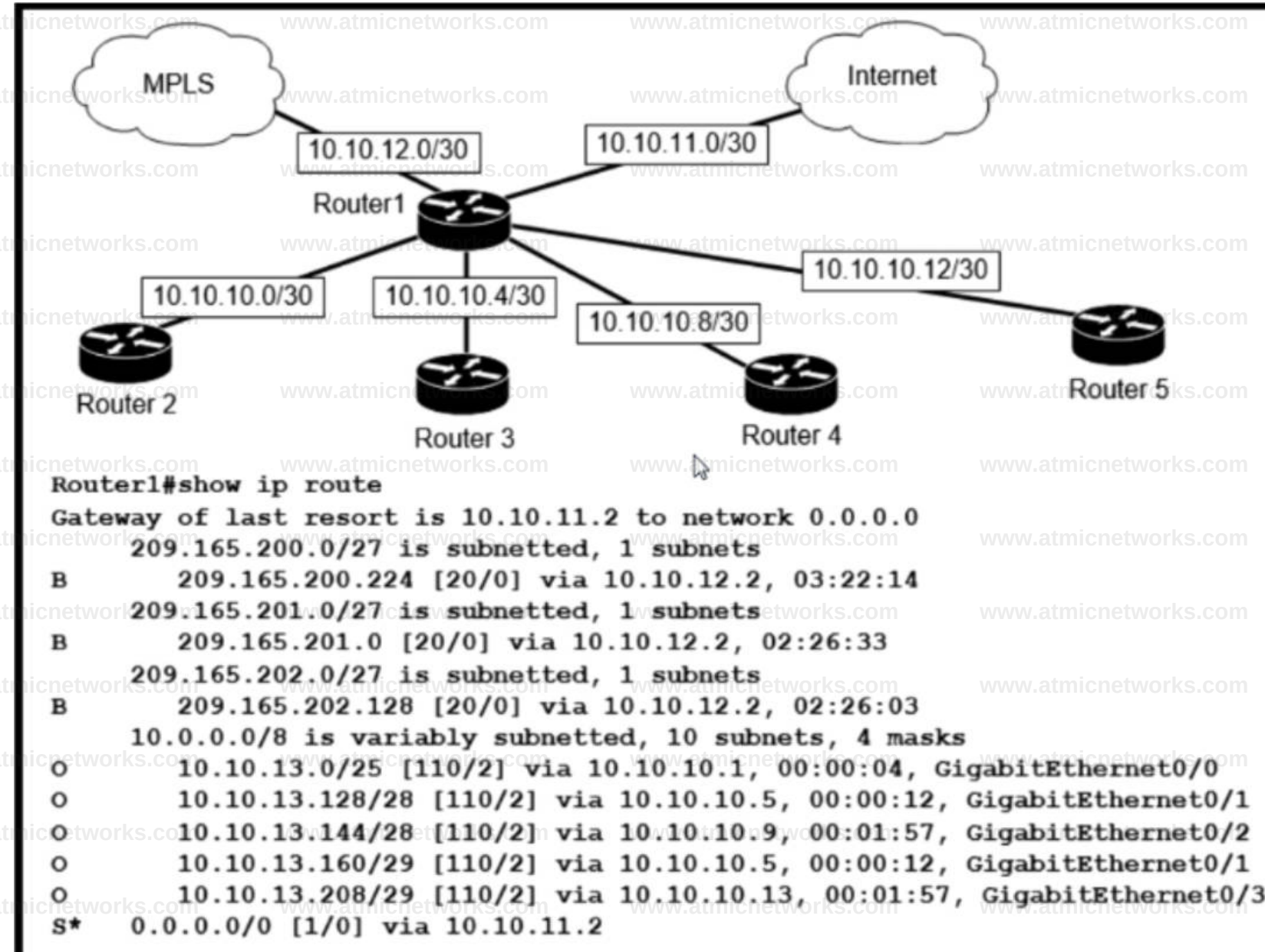
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36



Refer to the exhibit. Which next-hop IP address does Router1 use for packets destined to host 10.10.13.158?

- A. 10.10.10.5
- B. 10.10.12.2
- C. 10.10.11.2
- D. 10.10.10.9

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Which type of port is used to connect to the wired network when an autonomous AP maps two VLANs to its WLANs?

- A. EtherChannel
- B. LAG
- C. trunk
- D. access

Correct Answer: C

Section: (none)

Explanation

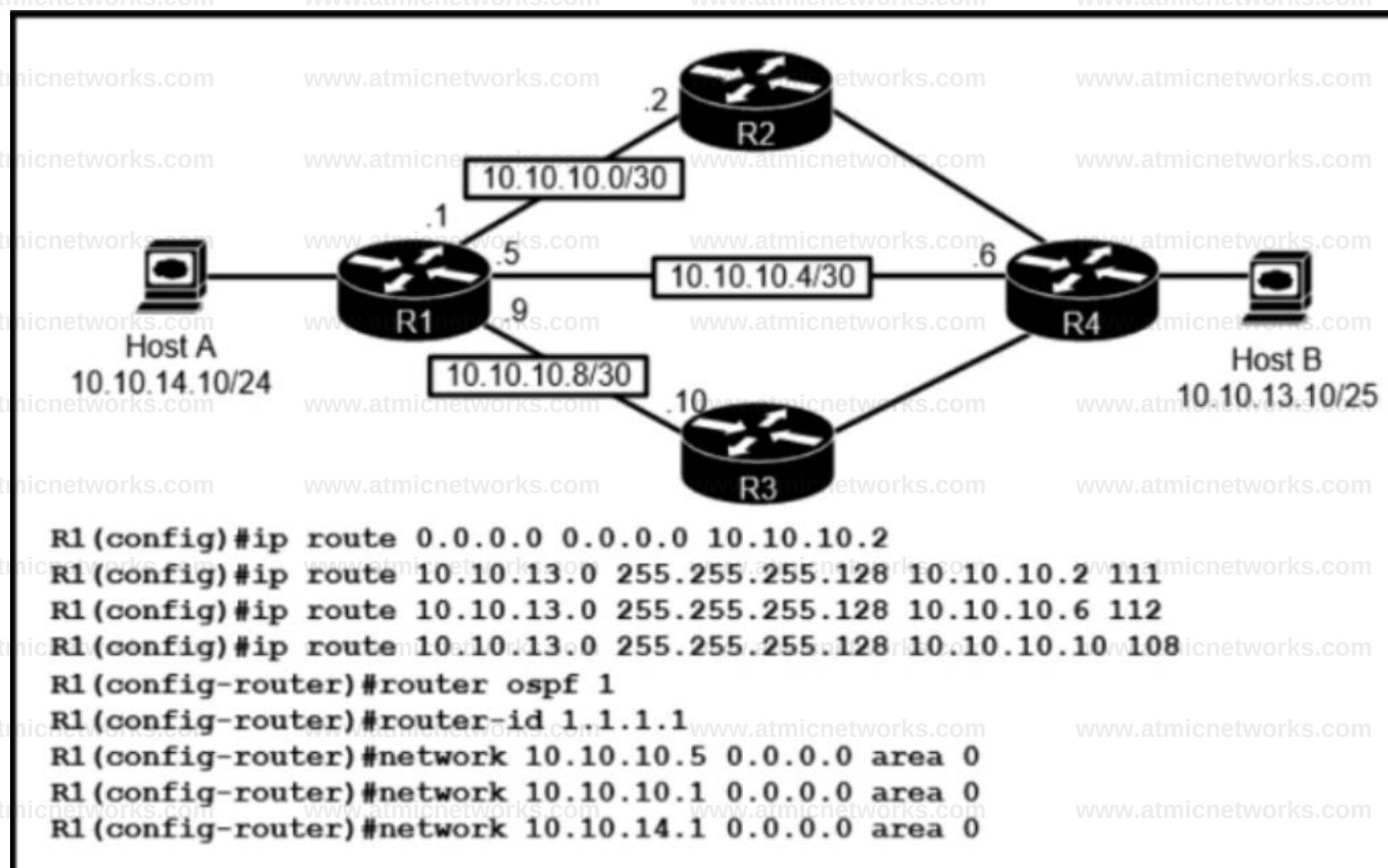
Explanation/Reference:

QUESTION 38

```
R1#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.2/24, Area 0
Process ID 1, Router ID 192.168.1.1, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 15, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:08
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)

R2#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.1/24, Area 0
Process ID 1, Router ID 10.1.1.1, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 15, Dead 45, Wait 15, Retransmit 5
Hello due in 00:00:11
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)
```

Refer to the exhibit. The network engineer is configuring router R2 as a replacement router on the network. After the initial configuration is applied, it is determined that R2 failed to show R1 as a neighbor. Which configuration must be applied to R2 to complete the OSPF configuration and enable it to establish the neighbor relationship with R1?



Refer to the exhibit. R1 has just received a packet from host A that is destined to host B. Which route in the routing table is used by R1 to reach host B?

- A. 10.10.13.0/25 [108/0] via 10.10.10.10
- B. 10.10.13.0/25 [1/0] via 10.10.10.2
- C. 10.10.13.0/25 [110/2] via 10.10.10.6
- D. 10.10.13.0/25 [110/2] via 10.10.10.2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

What is the function of a northbound API?

- A. It provides a path between an SDN controller and network applications.
- B. It relies on global provisioning and configuration.
- C. It upgrades software and restores files.
- D. It supports distributed processing for configuration.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Which two protocols are used by an administrator for authentication and configuration on access points? (Choose two.)

- A. 802.1x
- B. RADIUS
- C. 802.1Q
- D. Kerberos
- E. TACACS+

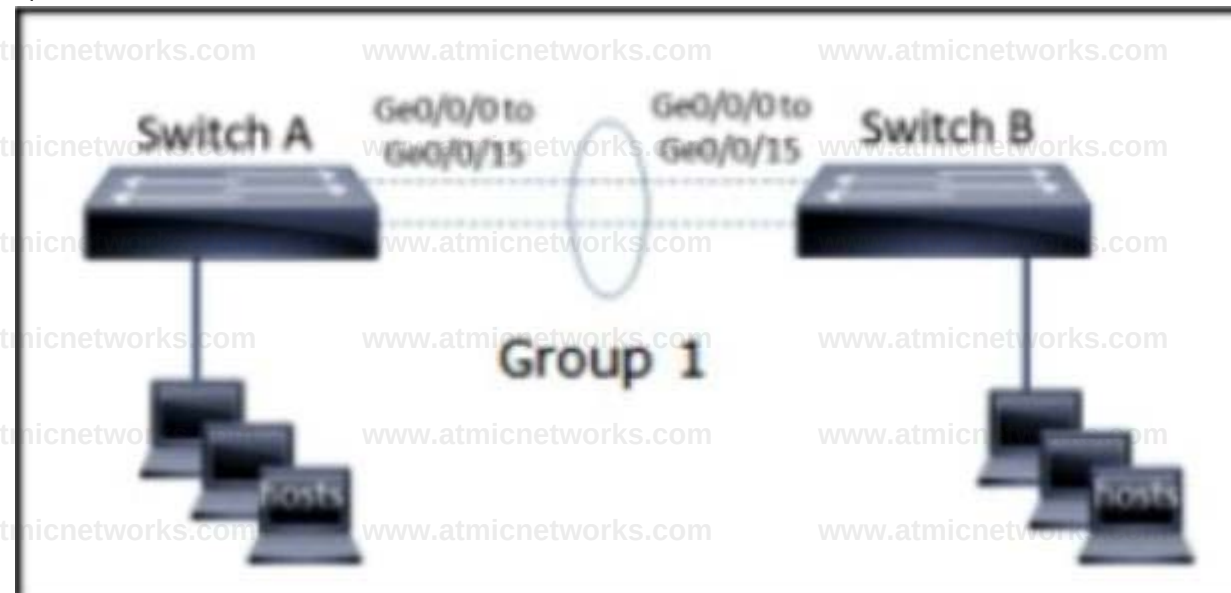
Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43



Refer to the exhibit. The LACP EtherChannel is configured, and the last change is to modify the interfaces on SwitchA to respond to packets received, but not to initiate negotiation. The interface range gigabitethernet0/0/0-15 command is entered. What must be configured next?

- A. SwitchA(config-if-range)#channel-group 1 mode active
- B. SwitchA(config-if-range)#channel-group 1 mode auto
- C. SwitchA(config-if-range)#channel-group 1 mode desirable
- D. SwitchA(config-if-range)#channel-group 1 mode passive

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Which cipher is supported for wireless encryption only with the WPA2 standard?

- A. AES256
- B. AES
- C. RC4

D. SHA

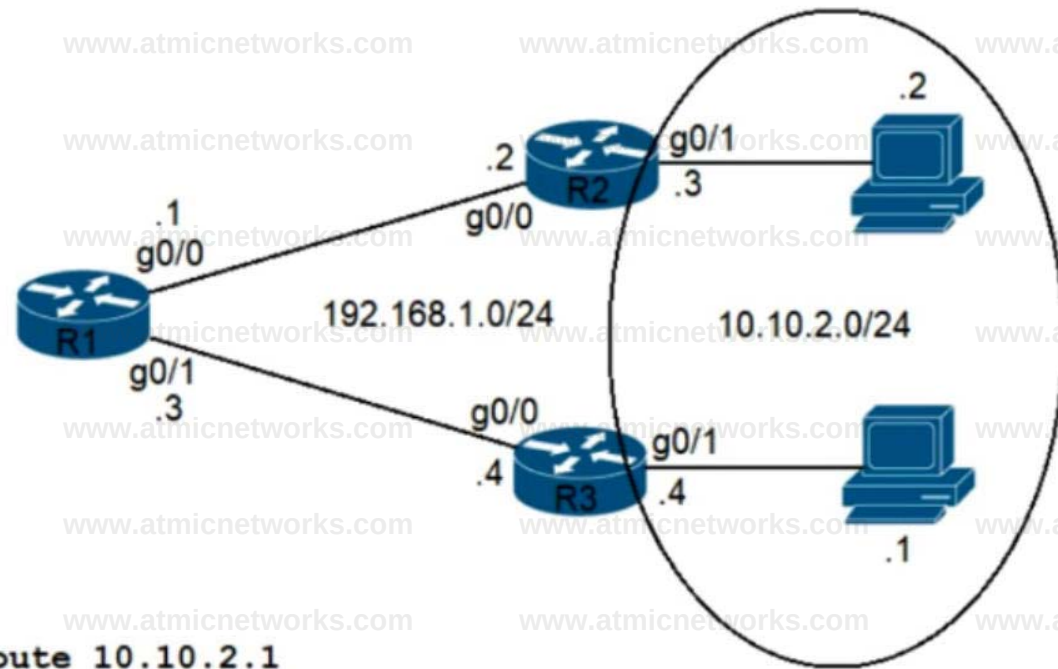
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45



```
R1#show ip route 10.10.2.1
Routing entry for 10.10.2.0/24
Known via "ospf 1", distance 110, metric 2, type intra area
Last update from 192.168.1.2 on GigabitEthernet0/0, 01:23:15 ago
Routing Descriptor Blocks:
* 192.168.1.2, from 192.168.1.2, 01:23:15 ago, via GigabitEthernet0/0
Route metric is 2, traffic share count is 1
```

Refer to the exhibit. Traffic from R1 to the 10.10.2.0/24 subnet uses 192.168.1.2 as its next hop. A network engineer wants to update the R1 configuration so that traffic with destination 10.10.2.1 passes through router R3, and all other traffic to the 10.10.2.0/24 subnet passes through R2. Which command must be used?

- A. ip route 10.10.2.1 255.255.255.255 192.168.1.4 115
- B. ip route 10.10.2.1 255.255.255.255 192.168.1.4 100
- C. ip route 10.10.2.0 255.255.255.0 192.168.1.4 115
- D. ip route 10.10.2.0 255.255.255.0 192.168.1.4 100

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

An engineer is configuring remote access to a router from IP subnet 10.139.58.0/28. The domain name, crypto keys, and SSH have been configured. Which configuration enables the traffic on the destination router?

- A. interface FastEthernet0/0
ip address 10.122.49.1 255.255.255.252

```

ip access-group 10 in
!
ip access-list standard 10
permit udp 10.139.58.0 0.0.0.7 host 10.122.49.1 eq 22
B. line vty 0 15
access-group 120 in
!
ip access-list extended 120
permit tcp 10.139.58.0 0.0.0.15 any eq 22
C. interface FastEthernet0/0
ip address 10.122.49.1 255.255.255.252
ip access-group 110 in
!
ip access-list standard 110
permit tcp 10.139.58.0 0.0.0.15 eq 22 host 10.122.49.1
D. line vty 0 15
access-class 120 in
!
ip access-list extended 120
permit tcp 10.139.58.0 0.0.0.15 any eq 22

```

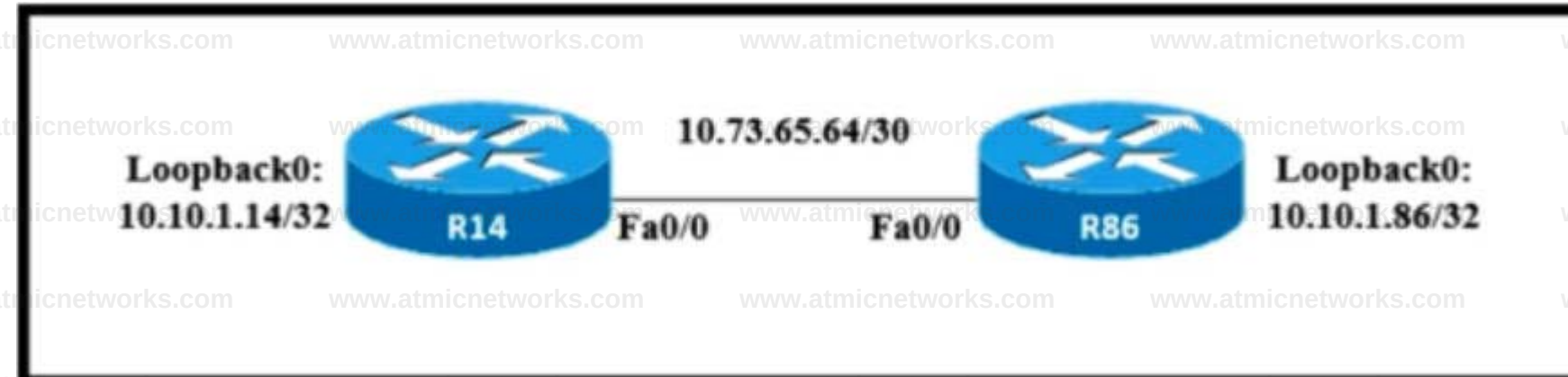
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47



Refer to the exhibit. All interfaces are configured with duplex auto and ip ospf network broadcast. Which configuration allows routers R14 and R86 to form an OSPFv2 adjacency and act as a central point for exchanging OSPF information between routers?

```

A. R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf priority 255
ip mtu 1500

router ospf 10
router-id 10.10.1.14
network 10.10.1.14 0.0.0.0 area 0
network 10.73.65.64 0.0.0.3 area 0
R86#
interface FastEthernet0/0
ip address 10.73.65.66 255.255.255.252
ip mtu 1400

router ospf 10

```

www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
router-id 10.10.1.86 network 10.10.1.86 0.0.0.0 area 0 network 10.73.65.64 0.0.0.3 area 0						
B. R14# interface Loopback0 ip ospf 10 area 0						
interface FastEthernet0/0 ip address 10.73.65.65 255.255.255.252 ip ospf 10 area 0 ip mtu 1500						
router ospf 10 ip ospf priority 255 router-id 10.10.1.14						
R86# interface Loopback0 ip ospf 10 area 0						
interface FastEthernet0/0 ip address 10.73.65.66 255.255.255.252 ip ospf 10 area 0 ip mtu 1500						
router ospf 10 router-id 10.10.1.86						
C. R14# interface FastEthernet0/0 ip address 10.73.65.65 255.255.255.252 ip ospf priority 0 ip mtu 1500						
router ospf 10 router-id 10.10.1.14 network 10.10.1.14 0.0.0.0 area 0 network 10.73.65.64 0.0.0.3 area 0						
R86# interface FastEthernet0/0 ip address 10.73.65.66 255.255.255.252 ip mtu 1500						
router ospf 10 router-id 10.10.1.86 network 10.10.1.86 0.0.0.0 area 0 network 10.73.65.64 0.0.0.3 area 0						
D. R14# interface Loopback0 ip ospf 10 area 0						
interface FastEthernet0/0 ip address 10.73.65.65 255.255.255.252 ip ospf priority 255 ip ospf 10 area 0 ip mtu 1500						
router ospf 10 router-id 10.10.1.14						
R86# interface Loopback0 ip ospf 10 area 0						
interface FastEthernet0/0						

ip address 10.73.65.66 255.255.255.252						
ip ospf 10 area 0						
ip mtu 1500						
router ospf 10						
router-id 10.10.1.86						
Correct Answer: C						
Section: (none)						
Explanation						
Explanation/Reference:						

QUESTION 48
Which interface enables communication between a program on the controller and a program on the networking device?

A. southbound interface
B. software virtual interface
C. northbound interface
D. tunnel Interface

Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:

QUESTION 49
An engineer must configure a core router with a floating static default route to the backup router at 10.200.0.2. Which command meets the requirements?

A. ip route 0.0.0.0 0.0.0.0 10.200.0.2 floating
B. ip route 0.0.0.0 0.0.0.0 10.200.0.2
C. ip route 0.0.0.0 0.0.0.0 10.200.0.21
D. ip route 0.0.0.0 0.0.0.0 10.200.0.2 10

Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:

QUESTION 50
What is a characteristic of a collapsed-core network topology?

A. It enables the core and access layers to connect to one logical distribution device over an EtherChannel.
B. It allows the core and distribution layers to run as a single combined layer.
C. It allows wireless devices to connect directly to the core layer, which enables faster data transmission.
D. It enables all workstations in a SOHO environment to connect on a single switch with internet access.

Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:

QUESTION 51

What is a purpose of traffic shaping?

- A. It enables dynamic flow identification.
- B. It enables policy-based routing.
- C. It limits bandwidth usage.
- D. It provides best-effort service.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

What is a reason to configure a trunk port that connects to a WLC distribution port?

- A. Allow multiple VLANs to be used in the data path.
- B. Provide redundancy if there is a link failure for out-of-band management
- C. Eliminate redundancy with a link failure in the data path.
- D. Permit multiple VLANs to provide out-of-band management.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Gateway of last resort is 172.16.2.2 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 3 subnets, 3 masks

10.10.100.0/26 is directly connected, GigabitEthernet0/0/6

C 10.10.10.0/24 is directly connected, GigabitEthernet0/0/0

L 10.10.10.3/32 is directly connected, GigabitEthernet0/0/0

172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks

S 172.16.1.33/32 is directly connected, GigabitEthernet0/0/1

C 172.16.2.0/23 is directly connected, GigabitEthernet0/0/1

L 172.16.2.1/32 is directly connected, GigabitEthernet0/0/1

S* 0.0.0.0/0 [1/0] via 172.16.2.2

10.10.10.32 is destined for the Internet. What is the administrative distance for the destination route?

Refer to the exhibit. A packet sourced from


```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, 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, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR
Gateway of last resort is not set

C    172.16.0.0/16 is directly connected, Loopback0
     172.16.0.0/16 is variably subnetted, 4 subnets, 2 masks
O    172.16.1.3/32 [110/100] via 10.0.1.100, 00:39:08, Serial0
O    172.16.1.9/32 [110/5] via 172.16.1.50, 00:43:01, Gigabit Ethernet 0/0
D    172.16.1.4/30 [90/7445] via 172.16.9.5, 00:39:08, Gigabit Ethernet 0/0
     [90/7445] via 172.16.4.4, 00:39:08, Gigabit Ethernet 0/4
```

Refer to the exhibit. How does router R1 handle traffic to the 172.16.1.4 /30 subnet?

- A. It sends all traffic over the path via 172.16.9.5 using 172.16.4.4 as a backup.
- B. It load-balances traffic over 172.16.9.5 and 172.16.4.4
- C. It sends all traffic over the path via 10.0.1.100.
- D. It sends all traffic over the path via 172.16.4.4.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

What is the primary purpose of private address space?

- A. conserve globally unique address space
- B. simplify the addressing in the network
- C. limit the number of nodes reachable via the Internet
- D. reduce network complexity

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

An engineering team asks an implementer to configure syslog for warning conditions and error conditions. Which command does the implementer configure to achieve the desired result?

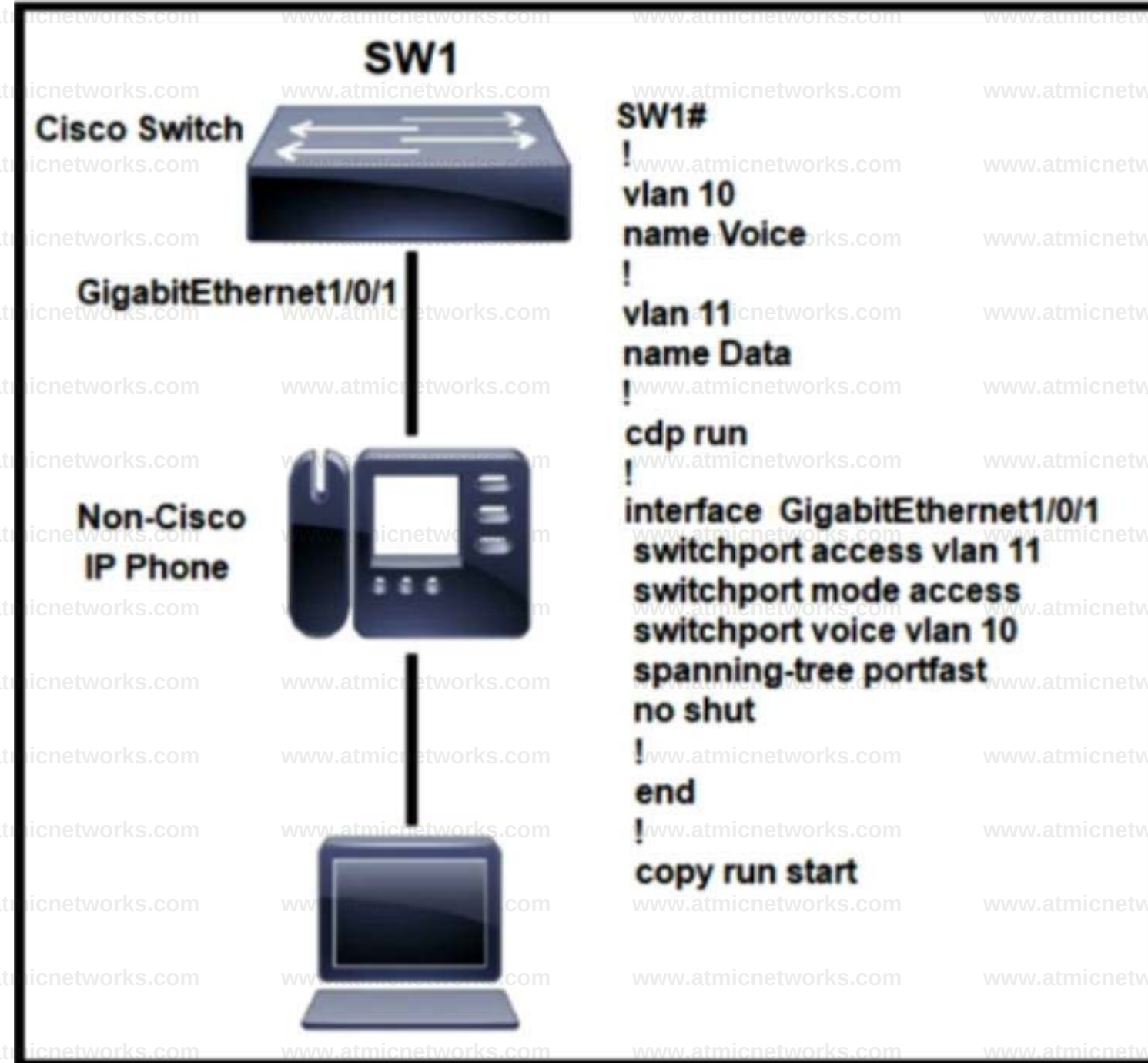
- A. logging trap 3
- B. logging trap 4

- C. logging trap 5
- D. logging trap 2

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59



Refer to the exhibit. A multivendor network exists and the company is implementing VoIP over the network for the first time. Which configuration is needed to implement the neighbor discovery protocol on the interface and allow it to remain off for the remaining interfaces?

- A. SW1(config)#no cdp enable

- SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#cdp run
- B. SW1(config)#lldp run
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp enable
- C. SW1(config)#lldp enable
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp run
- D. SW1(config)#no cdp run
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp transmit
SW1(config-if)#lldp receive

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

```
%AMDP2 FE-5-COLL: AMDP2/FE 0/0/[DEC], Excessive collisions, TDR=[DEC], TRC=[DEC]
%DEC21140-5-COLL: [chars] excessive collisions
%ILACC-5-COLL: Unit [DEC], excessive collisions. TDR=[DEC]
%LANCE-5-COLL: Unit [DEC], excessive collisions. TDR=[DEC]
%PQUICC-5-COLL: Unit [DEC], excessive collisions. Retry limit [DEC] exceeded
%PQUICC_ETHER-5-COLL: Unit [DEC], excessive collisions. Retry limit [DEC] exceeded
```

Refer to the exhibit. What is occurring on this switch?

- A. The internal transmit buffer is overloaded.
- B. An excessive number of frames greater than 1518 bytes are received.
- C. Frames are dropped after 16 failed transmission attempts
- D. A high number of frames smaller than 64 bytes are received.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

Which IPsec transport mode encrypts the IP header and the payload?

- A. pipe
- B. control
- C. transport
- D. tunnel

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

What does a switch do when it receives a frame whose destination MAC address is missing from the MAC address table?

- A. It floods the frame unchanged across all remaining ports in the incoming VLAN.
- B. It updates the CAM table with the destination MAC address of the frame.
- C. It changes the checksum of the frame to a value that indicates an invalid frame.
- D. It appends the table with a static entry for the MAC and shuts down the port.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

Which EtherChannel mode must be configured when using LAG on a WLC?

- A. auto
B. passive
C. active
D. on

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

Which security method is used to prevent man-in-the-middle attacks?

- A. accounting
- B. authentication
- C. anti-replay
- D. authorization

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

Which IPv6 address range is suitable for anycast addresses for distributed services such as DHCP or DNS?

- A. FE80::1/10
B. 2001:db8:0234:ca3e:1/128
C. FF00:1/12
D. 2002:db8X:XfXX:caXX:beXX:X/64

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

```
hostname CPE
service password-encryption
ip domain name ccna.cisco.com
ip name-server 198.51.100.210

crypto key generate rsa modulus 1024

username admin privilege 15 secret S0m3s3cr3t

line vty 0 4
transport input ssh
login local
```

Refer to the exhibit. An engineer executed the script and added commands that were not necessary for SSH and now must remove the commands. Which two commands must be executed to correct the configuration? (Choose two.)

- A. no ip domain name ccna.cisco.com
- B. no hostname CPE
- C. no ip name-server 198.51.100.210
- D. no login local
- E. no service password-encryption

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

Current Neighbor Relationship

Neighbor ID	Pri	State	Dead Time	Address	Interface
192.168.1.1	1	FULL/DR	00:00:33	192.168.1.1	GigabitEthernet0/0

Desired Neighbor Relationship

Neighbor ID	Pri	State	Dead Time	Address	Interface
192.168.1.1	0	FULL/ -	00:00:31	192.168.1.1	GigabitEthernet0/0

Refer to the exhibit. How must OSPF be configured on the GigabitEthernet0/0 interface of the neighbor device to achieve the desired neighbor relationship?

- A. Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf cost 5
- B. Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf network point-to-point
- C. Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf priority 1
- D. Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf 1 area 2

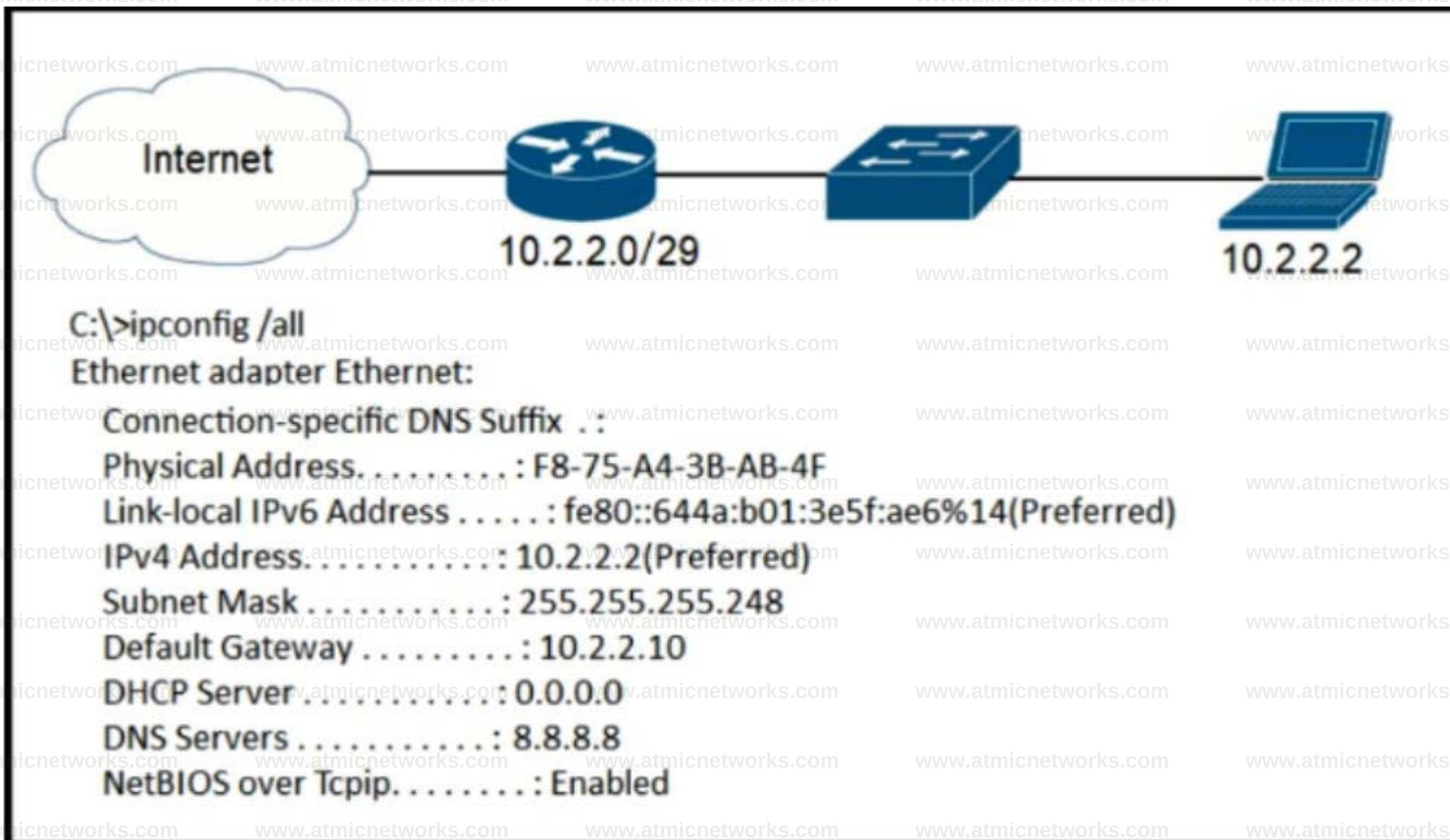
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68



Refer to the exhibit. A newly configured PC fails to connect to the internet using TCP port 80 to www.cisco.com. Which setting must be modified for the connection to work?

- A. Default Gateway
- B. DHCP Server
- C. DNS Servers
- D. Subnet Mask

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

Why is TCP desired over UDP for applications that require extensive error checking, such as HTTPS?

- A. UDP reliably guarantees delivery of all packets, and TCP drops packets under heavy load.
- B. UDP uses sequencing data for packets to arrive in order, and TCP offers the capability to receive packets in random order.
- C. UDP uses flow control mechanisms for the delivery of packets, and TCP uses congestion control for efficient packet delivery.
- D. UDP operates without acknowledgments, and TCP sends an acknowledgment for every packet received.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

A WLC sends alarms about a rogue AP, and the network administrator verifies that the alarms are caused by a legitimate autonomous AP. Which action stops the alarms for the MACaddress of the AP?

- A. Remove the AP from WLC management.
- B. Set the AP Class Type to Friendly.
- C. Manually remove the AP from Pending state.
- D. Place the AP into manual containment.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

What is a function of FTP?

- A. always operates without user connection validation
- B. uses block numbers to identify and mitigate data-transfer errors
- C. uses two separate connections for control and data traffic
- D. relies on the well-known UDP port 69 for data transfer

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

Entry #	
1	192.168.10.0 255.255.254.0
2	192.168.10.0 255.255.255.192
3	192.168.10.0 255.255.0.0
4	192.168.10.0 255.255.224.0

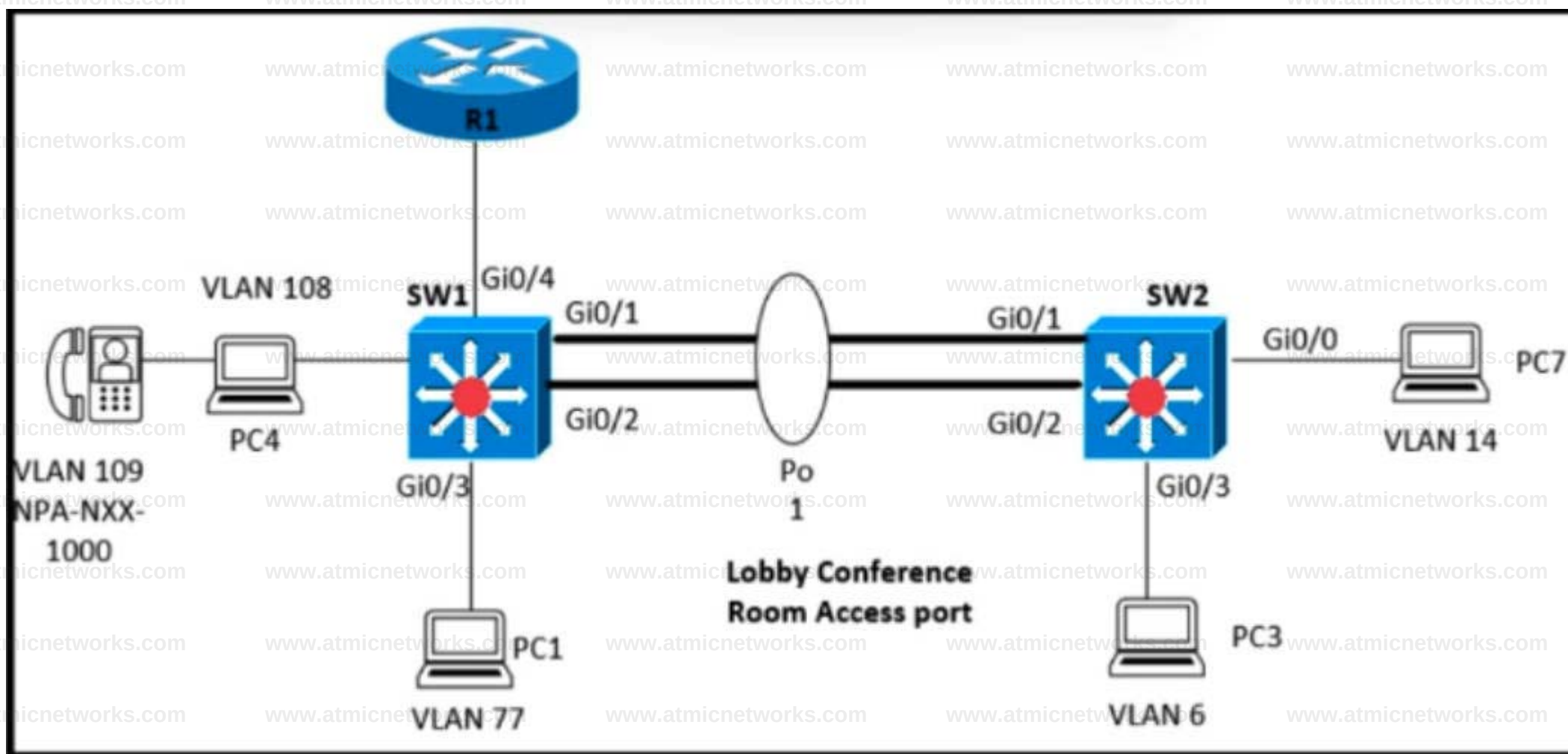
Refer to the exhibit. Which entry is the longest prefix match for host IP address 192.168.10.5?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: B

Section: (none)

Explanation



Refer to the exhibit. Which configuration enables an EtherChannel to form dynamically between SW1 and SW2 by using an industry-standard protocol, and to support full IP connectivity between all PCs?

A. SW1#
 interface Gi0/1
 switchport
 switchport mode trunk
 channel-group 1 mode active
 !
 interface Gi0/2
 switchport
 switchport mode trunk
 channel-group 1 mode active

SW2#
 interface Gi0/1
 switchport
 switchport mode trunk
 channel-group 1 mode passive
 !
 interface Gi0/2
 switchport
 switchport mode trunk
 channel-group 1 mode passive

B. SW1#
 interface Gi0/1
 switchport
 switchport mode trunk
 channel-group 1 mode on
 !

Explanation/Reference:

QUESTION 76

An Ethernet frame arrived at switch interface G0/1, but the destination MAC address is missing from the MAC address table. How does the switch process the frame?

- A. It floods the frame out of the remaining switch interfaces
- B. It updates the destination to FFFF.FFFF.FFFF
- C. It drops the frame and notifies the sending host.
- D. It sends an ARP request to attempt to locate the destination.

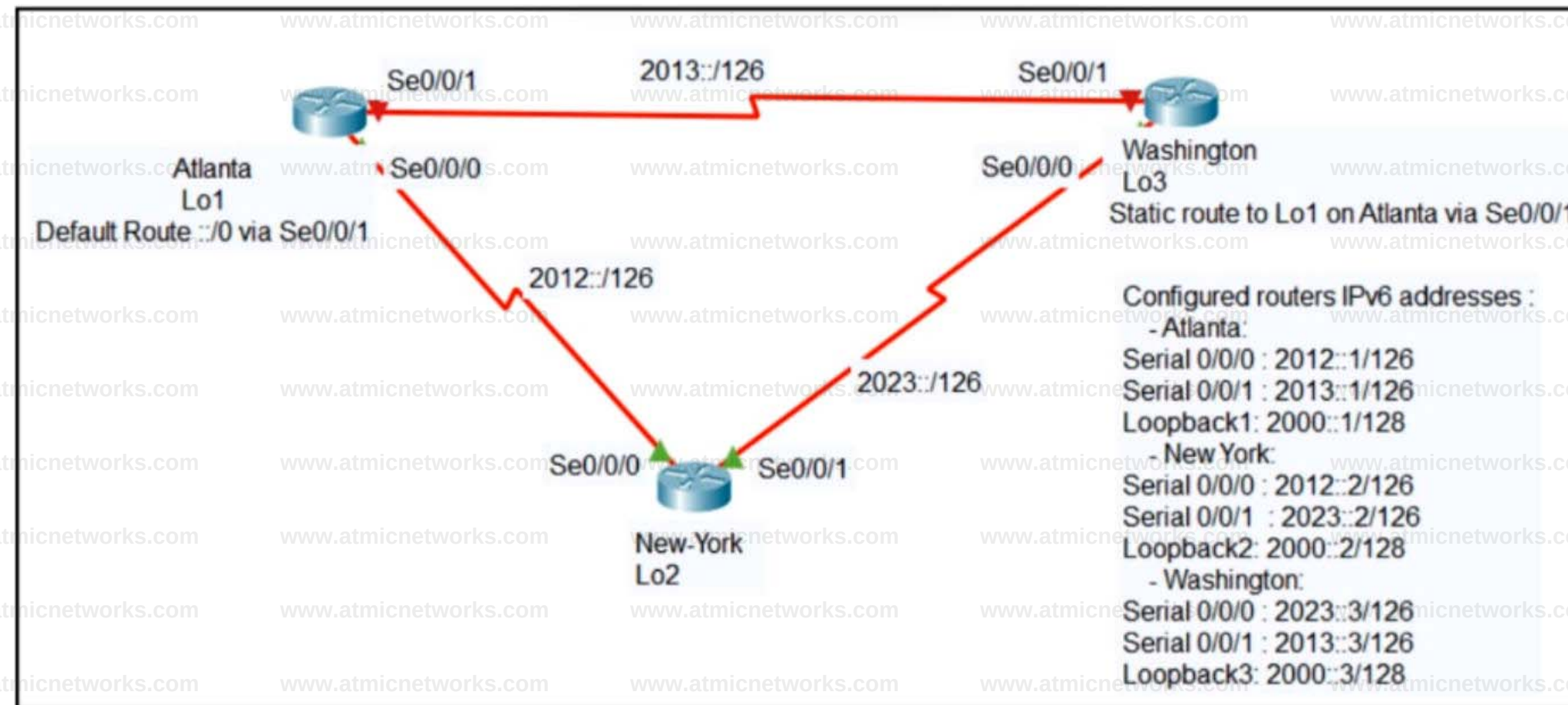
Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77



Refer to the exhibit. The New York router must be configured so that traffic to 2000::1 is sent primarily via the Atlanta site, with a secondary path via Washington that has an administrative distance of 2. Which two commands must be configured on the New York router? (Choose two.)

- A. ipv6 route 2000::1/128 2012::1 5
- B. ipv6 route 2000::1/128 2023::2 5
- C. ipv6 route 2000::1/128 2012::2
- D. ipv6 route 2000::1/128 2023::3 5
- E. ipv6 route 2000::1/128 2012::1

Correct Answer: DE

Section: (none)
Explanation
Explanation/Reference:

QUESTION 78

```
R1
interface GigabitEthernet0/1
ip address 192.168.12.1 255.255.255.128
no shutdown
router ospf 1
network 192.168.12.1 0.0.0.0 area 1

R2
interface GigabitEthernet0/1
ip address 192.168.12.2 255.255.255.128
no shutdown
```

Refer to the exhibit. A network engineer started to configure two directly-connected routers as shown. Which command sequence must the engineer configure on R2 so that the two routers become OSPF neighbors?

- A. interface Gigabit Ethernet0/1 ip ospf 1 area 0
- B. router ospf 1 network 192.168.12.1 0.0.0.0 area 1
- C. interface Gigabit Ethernet0/1ip ospf 1 area 1
- D. router ospf 1 network 192.168.12.0 0.0.0.127 area 0

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 79

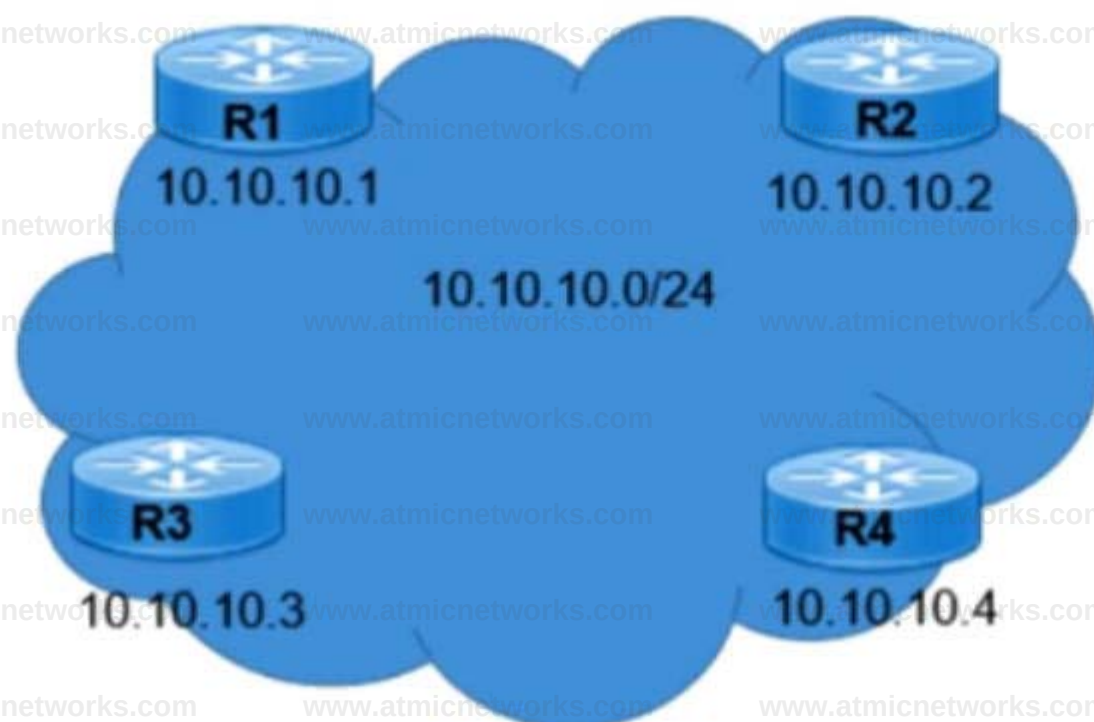
Which advantage does the network assurance capability of Cisco DNA Center provide over traditional campus management?

- A. Cisco DNA Center handles management tasks at the controller to reduce the load on infrastructure devices, and traditional campus management uses the data backbone.
- B. Cisco DNA Center correlates information from different management protocols to obtain insights, and traditional campus management requires manual analysis.
- C. Cisco DNA Center leverages YANG and NETCONF to assess the status of fabric and nonfabric devices, and traditional campus management uses CLI exclusively.
- D. Cisco DNA Center automatically compares security postures among network devices, and traditional campus management needs manual comparisons.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
答案存疑

QUESTION 80



```
R1# show ip route
C    1.0.0.0/8 is directly connected, Loopback0
C    10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O    10.10.10.3/32 [110/100] via 10.10.10.3, 00:39:08, GigabitEthernet0/3
C    10.10.10.0/24 is directly connected, GigabitEthernet0/0
O    10.10.10.2/32 [110/5] via 10.10.10.2, 00:39:08, GigabitEthernet0/2
R    10.10.10.4/32 [120/10] via 10.10.10.4, 00:39:08, GigabitEthernet0/4
```

Refer to the exhibit. Which next-hop IP address has the least desirable metric when sourced from R1?

- A. 10.10.10.3
- B. 10.10.10.5
- C. 10.10.10.2
- D. 10.10.10.4

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

```
1 [
2   { "switch": "3750", "port": e2 },
3   { "router": "2951", "port": e20 }.
4   { "switch": "3750", "port": e23 }
5 ]
```

Refer to the exhibit. What is represented by the word "switch" in line 2 of the JSON schema?

- A. array
- B. key
- C. value
- D. object

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

```

R1# sh ip ospf int gig0/0
Gig0/0 is up, line protocol is up
Internet Address 10.201.24.8/28, Area 1, Attached via Network Statement
Process ID 100, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
Topology-MTID      Cost      Disabled      Shutdown      Topology Name
    0              1          no            no            Base
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 192.168.1.1, Interface address 10.201.24.8
No backup designated router on this network
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:07

R2#sh ip ospf int gig0/0
gig0/0 is up, line protocol is up
Internet Address 10.201.24.1/28, Area 1
Process ID 100, Router ID 172.16.1.1, Network Type BROADCAST, Cost: 1
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 172.16.1.1, Interface address 10.201.24.1
No backup designated router on this network
Timer intervals configured, Hello 20, Dead 80, Wait 80, Retransmit 5

```

Refer to the exhibit. Which action establishes the OSPF neighbor relationship without forming an adjacency?

- A. modify network type
- B. modify hello interval
- C. modify process ID
- D. modify priority

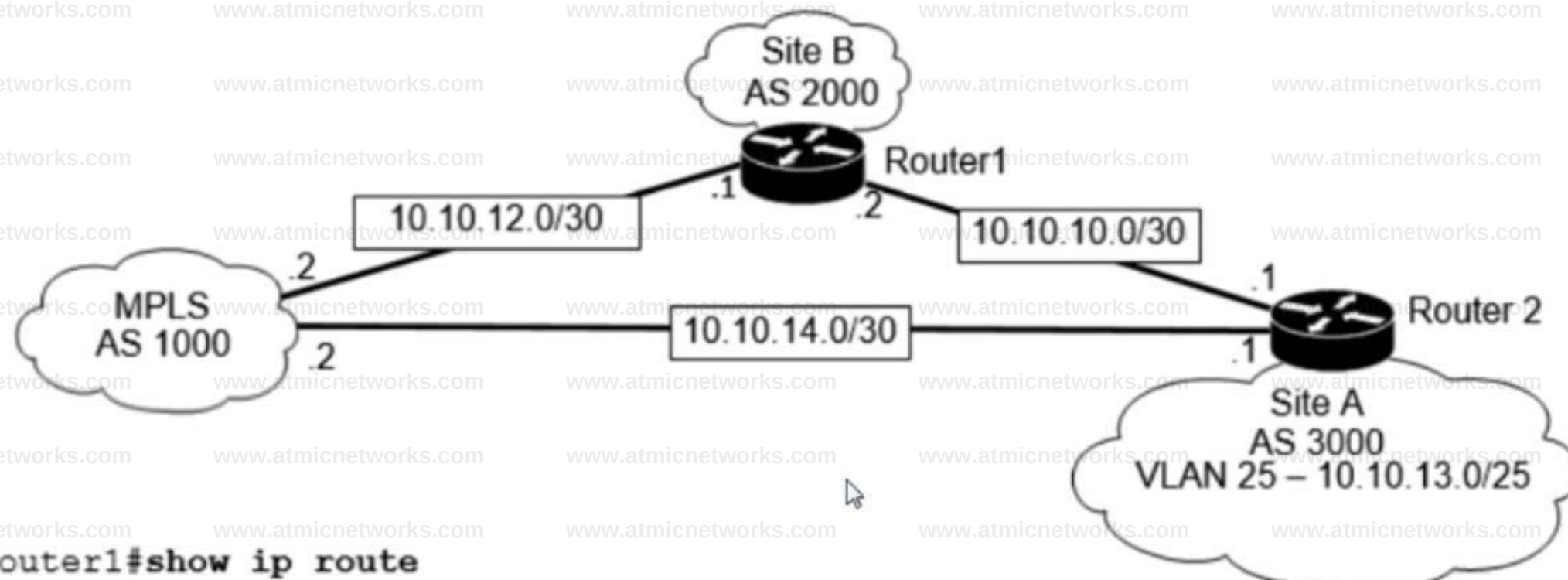
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83



Router1#show ip route

Gateway of last resort is 10.10.11.2 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks

```

C    10.10.10.0/28 is directly connected, GigabitEthernet0/0
C    10.10.11.0/30 is directly connected, FastEthernet2/0
O    10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:17, GigabitEthernet0/0
O    10.10.13.128/28 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O    10.10.13.144/28 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O    10.10.13.160/29 [110/2] via 10.10.10.1, 00:33:38, GigabitEthernet0/0
O    10.10.13.208/29 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
O    10.10.13.252/30 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
O    10.10.13.208/29 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
O    10.10.13.252/30 [110/2] via 10.10.10.1, 00:33:39, GigabitEthernet0/0
S*  0.0.0.0/0 [1/0] via 10.10.11.2
  
```

Refer to the exhibit. An engineer is bringing up a new circuit to the MPLS provider on the GiO/1 interface of Router1. The new circuit uses eBGP and learns the route to VLAN25 from the BGP path. What is the expected behavior for the traffic flow for route 10.10.13.0/25?

- A. Route 10.10.13.0/25 is updated in the routing table as being learned from interface GiO/1.
- B. Traffic to 10.10.13.0/25 is asymmetrical.
- C. Route 10.10.13.0/25 learned via the GiO/0 interface remains in the routing table.
- D. Traffic to 10.10.13.0/25 is load balanced out of multiple interfaces.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

What is the definition of backdoor malware?

- A. malicious program that is used to launch other malicious programs
- B. malicious code that is installed onto a computer to allow access by an unauthorized user
- C. malicious code with the main purpose of downloading other malicious code
- D. malicious code that infects a user machine and then uses that machine to send spam

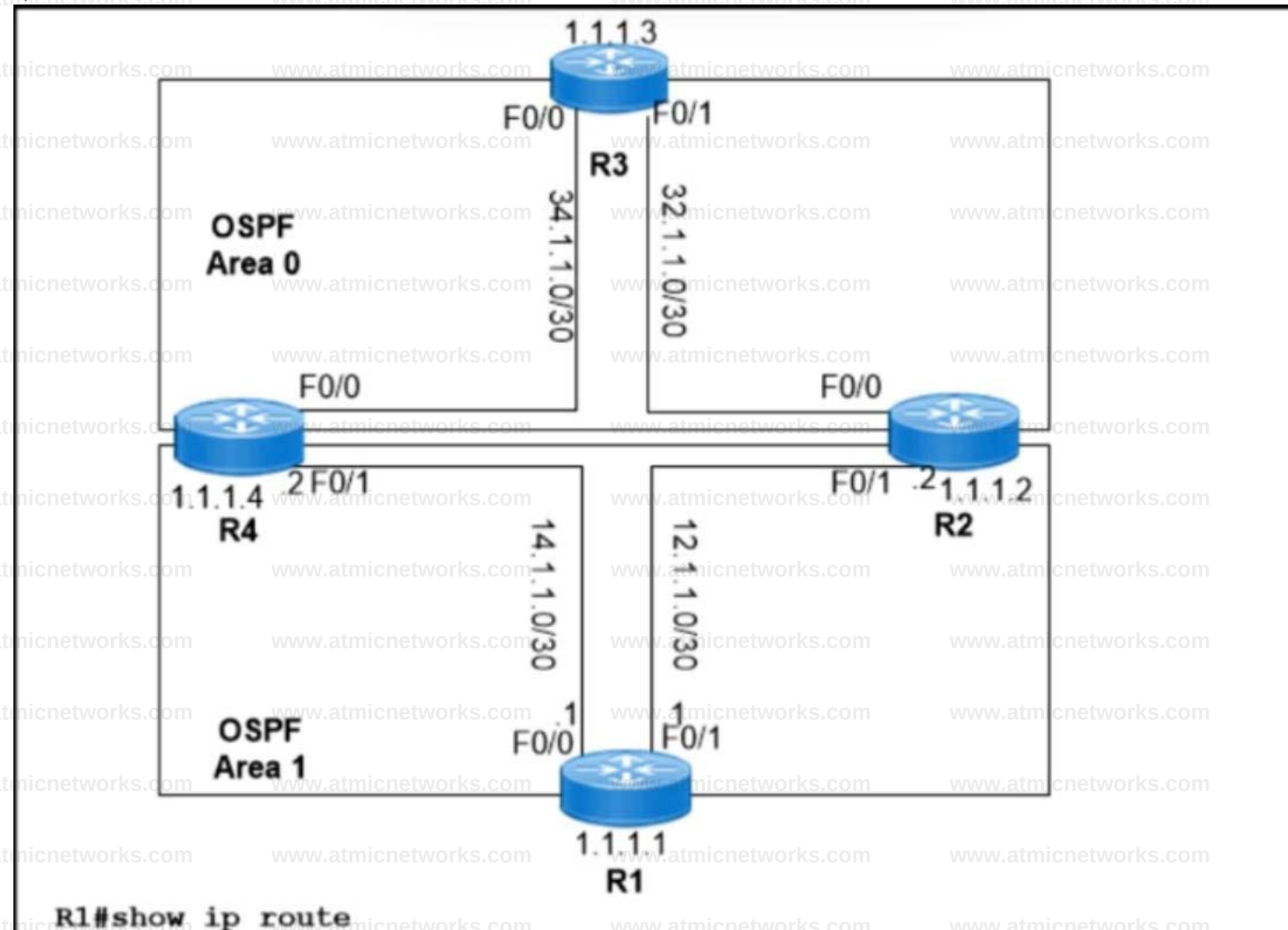
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85



```
R1#show ip route
1.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
O IA    1.1.1.0/24 [110/3] via 12.1.1.2, 00:00:25, FastEthernet0/0
C       24.1.1.0/30 is directly connected, FastEthernet2/0
C       34.1.1.0/30 is directly connected, FastEthernet3/0
S       1.1.1.3/32 [1/0] via 14.1.1.2
```

Refer to the exhibit. Which two values does router R1 use to determine the best path to reach destinations in network 1.0.0.0/8? (Choose two.)

- A. longest prefix match
- B. highest administrative distance
- C. lowest metric
- D. lowest cost to reach the next hop
- E. highest metric

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

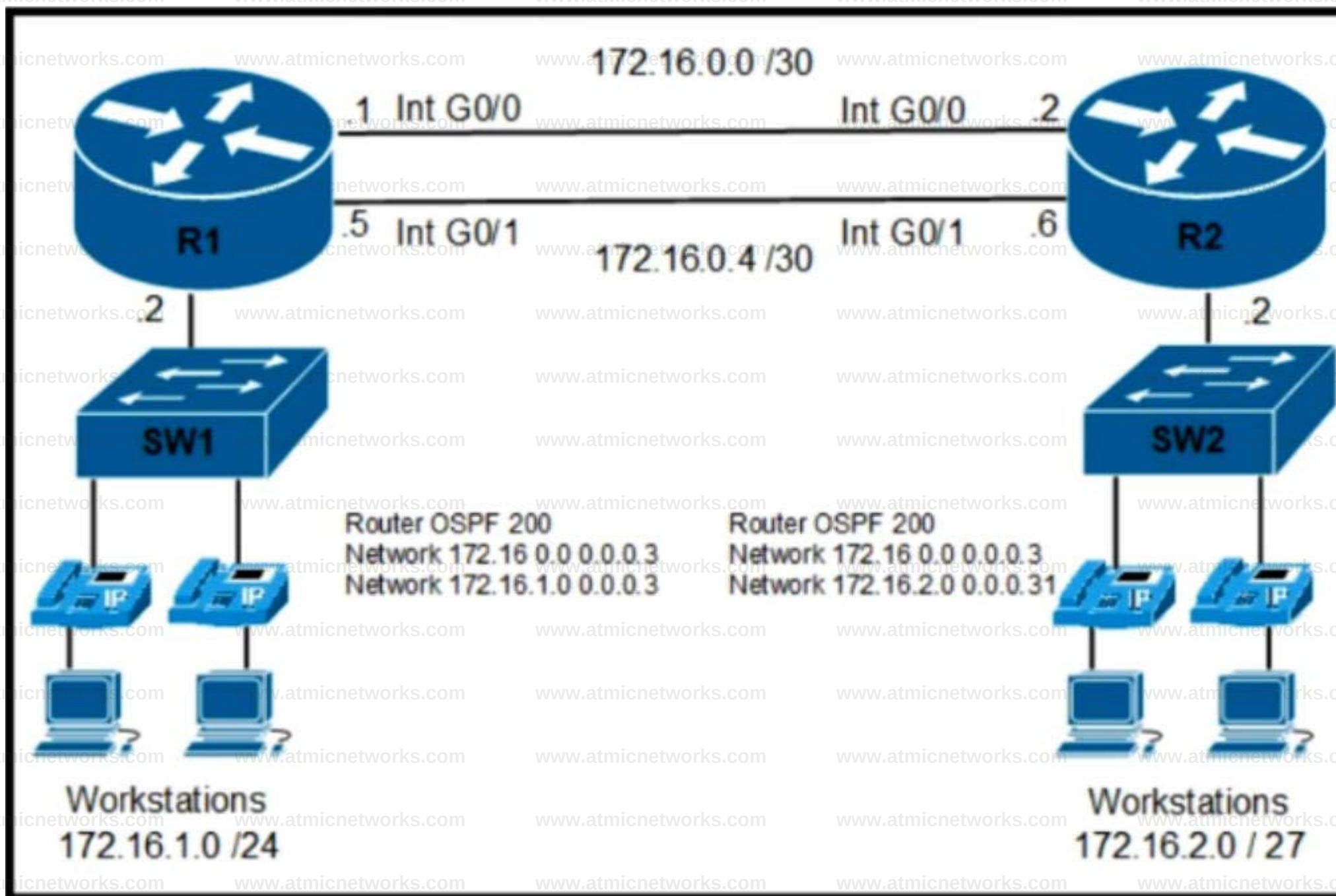
```
R1#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.2/24, Area 0
Process ID 1, Router ID 192.168.1.2, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:08
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)
```

```
R2#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.1/24, Area 0
Process ID 1, Router ID 1.1.1.1, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 15, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:11
Index 1/1, flood queue length 0
```

```
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 15, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:11
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)
```

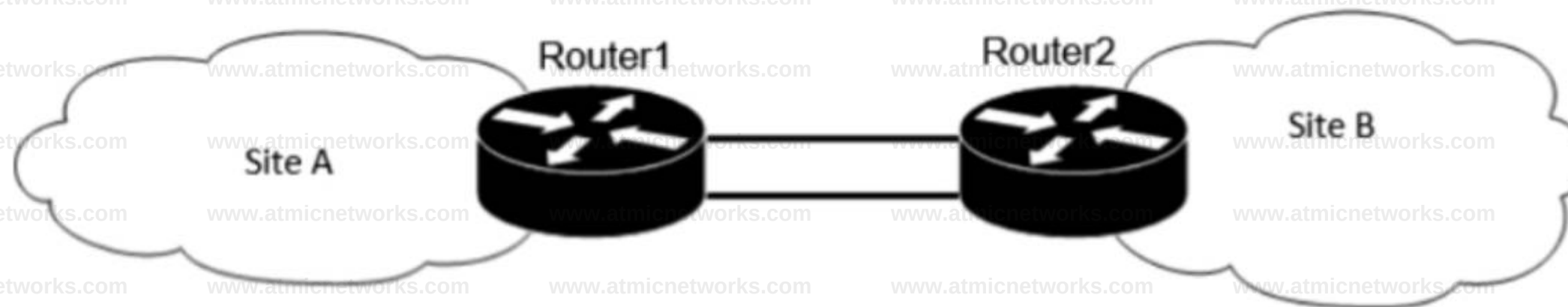
Refer to the exhibit. The network engineer is configuring router R2 as a replacement router on the network. After the initial configuration is applied, it is determined that R2 failed to show R1 as a neighbor. Which configuration must be applied to R2 to complete the OSPF configuration and enable it to establish the neighbor relationship with R1?

- A. R2(config)#interface g0/0/0
R2(config-if)#ip ospf dead-interval 45



Refer to the exhibit. The primary route across Gi0/0 is configured on both routers. A secondary route must be configured to establish connectivity between the workstation networks. Which command set must be configured to complete this task?

- A. R1
ip route 172.16.2.0 255.255.255.224 172.16.0.6 111
R2
ip route 172.16.1.0 255.255.255.0 172.16.0.5 112
- B. R1
ip route 172.16.2.0 255.255.255.240 172.16.0.2 113
R2
ip route 172.16.1.0 255.255.255.0 172.16.0.1 114
- C. R1
ip route 172.16.2.0 255.255.255.248 172.16.0.5 110
R2



Router2#show ip route

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks

C 10.10.10.8/30 is directly connected, FastEthernet0/2

C 10.10.10.12/30 is directly connected, FastEthernet0/1

**O 10.10.13.0/25 [110/11] via 10.10.10.9, 00:00:03, FastEthernet0/2
[110/11] via 10.10.10.13, 00:00:03, FastEthernet0/1**

C 10.10.10.4/30 is directly connected, FastEthernet0/2

Refer to the exhibit. If OSPF is running on this network, how does Router2 handle traffic from Site B to 10.10.13.128/25 at Site A?

- A. It sends packets out of interface Fa0/2.
- B. It sends packets out of interface Fa0/1
- C. It is unreachable and discards the traffic.
- D. It load-balances traffic out of Fa0/1 and Fa0/2.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

Which syslog severity level is considered the most severe and results in the system being considered unusable?

- A. Error
- B. Emergency
- C. Alert
- D. Critical

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 92

```
MacOs$ ifconfig  
  
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500  
options=400<CHANNEL_IO>  
ether f0:18:98:64:60:32  
inet6 fe80::492:c09f:57cf:8c36%en0 prefixlen 64 secured scopeid 0x6  
inet 10.8.138.14 netmask 0xffffe000 broadcast 10.8.159.255  
nd6 options=201<PERFORMNUD,DAD>  
media: autoselect  
status: active
```

Refer to the exhibit. A network engineer must provide configured IP addressing details to investigate a firewall rule issue. Which subnet and mask identify what is configured on the en0 interface?

- A. 10.8.0.0/16
- B. 10.8.64.0/18
- C. 10.8.128.0/19
- D. 10.8.138.0/24

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93

What does the implementation of a first-hop redundancy protocol protect against on a network?

- A. spanning-tree loops
- B. root-bridge loss
- C. BGP neighbor flapping
- D. default gateway failure

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94

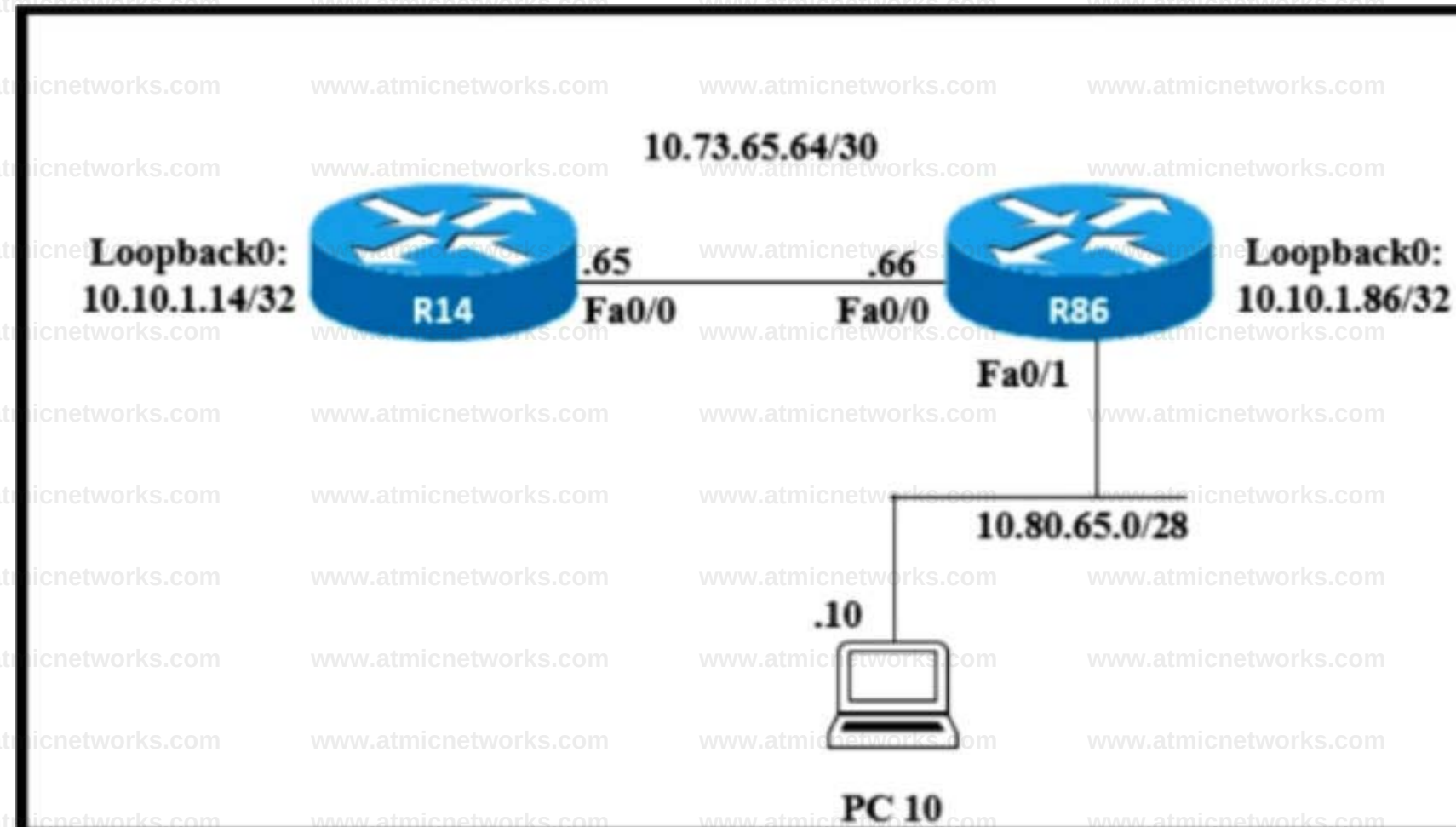
When a switch receives a frame for an unknown destination MAC address, how is the frame handled?

- A. forwarded to the first available port
- B. broadcast to all ports on the switch
- C. inspected and dropped by the switch
- D. flooded to all ports except the origination port

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 95



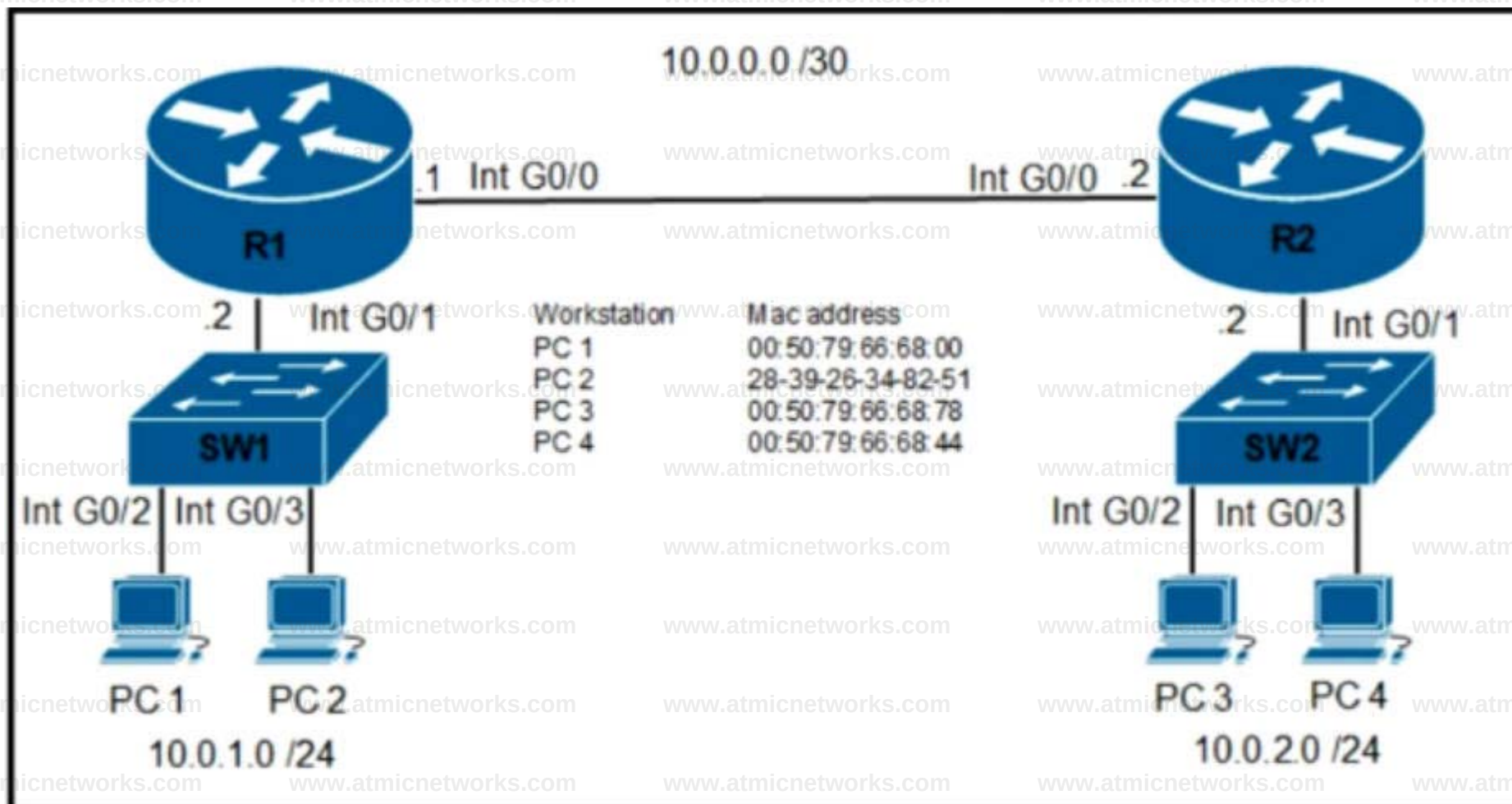
Refer to the exhibit. Router R14 is in the process of being configured. Which configuration must be used to establish a host route to PC 10?

- A. ip route 10.73.65.66 0.0.0.255 10.80.65.10
- B. ip route 10.73.65.65 255.0.0.0 10.80.65.10
- C. ip route 10.80.65.10 255.255.255.254 10.80.65.1
- D. ip route 10.80.65.10 255.255.255.255 10.73.65.66

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96



Refer to the exhibit. An engineer must configure the interface that connects to PC1 and secure it in a way that only PC1 is allowed to use the port. No VLAN tagging can be used except for a voice VLAN. Which command sequence must be entered to configure the switch?

- A. SW1(config-if)#switchport mode dynamic desirable
SW1(config-if)#switchport port-security mac-address 0050.7966.6800
SW1(config-if)#switchport port-security mac-address sticky
- B. SW1(config-if)#switchport mode dynamic auto
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security violation restrict
- C. SW1(config-if)#switchport mode nonegotiate
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security maximum 1
- D. SW1(config-if)#switchport mode access
SW1(config-if)#switchport port-security
SW1(config-if)#switchport port-security mac-address 0050.7966.6800

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97

A network engineer is upgrading a small data center to host several new applications, including server backups that are expected to account for up to 90% of the bandwidth during peak times. The data center connects to the MPLS network provider via a primary circuit and a secondary circuit. How does the engineer inexpensively update the data center to avoid saturation of the primary circuit by traffic associated with the backups?

- A. Advertise a more specific route for the backup traffic via the secondary circuit
- B. Assign traffic from the backup servers to a dedicated switch.


```
R1# show ip route | begin gateway
Gateway of last resort is not set
  172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
C    172.16.1.0/24 is directly connected, FastEthernet0/0
L    172.16.1.1/32 is directly connected, FastEthernet0/0
EX   172.16.2.0/24 [170/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O    192.168.1.0/24 [110/84437] via 207.165.200.254, 00:00:17, Serial0/0/1
D    192.168.2.0/24 [90/184437] via 207.165.200.254, 00:00:15, Serial0/0/1
E1   192.168.3.0/24 [110/1851437] via 207.165.200.254, 00:00:19, Serial0/0/1
     207.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C    207.165.200.248/30 is directly connected, Serial0/0/0
L    207.165.200.249/32 is directly connected, Serial0/0/0
C    207.165.200.252/30 is directly connected, Serial0/0/1
L    207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. Which prefix did router R1 learn from internal EIGRP?

- A. 172.16.1.0/24
- B. 192.168.1.0/24
- C. 192.168.3.0/24
- D. 192.168.2.0/24

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 105

The screenshot displays the Cisco WLAN configuration interface. The top navigation bar includes links for Save Configuration, Ping, Logout, Refresh, Monitor, WLANs, Controller, Wireless, Security, Management, Commands, Help, Feedback, and Home. The left sidebar shows the WLAN configuration hierarchy: WLANs, Advanced, and a list of WLANs. The main content area is titled 'WLANs > Edit 'lantest'' and features a tabbed interface with General, Security, QoS, Policy-Mapping, and Advanced tabs. The Advanced tab is selected, showing the following configuration details:

- Profile Name:** lantest
- Type:** WLAN
- SSID:** lantest
- Status:** ☐ Enabled
- Security Policies:** [WPA2][Auth(802.1X)]
(Modifications done under security tab will appear after applying the changes.)
- Radio Policy:** All
- Interface/Interface Group(G):** guest
- Multicast Vlan Feature:** ☐ Enabled
- Broadcast SSID:** ☐ Enabled
- NAS-ID:** none

Refer to the exhibit. A Cisco engineer creates a new WLAN called lantest. Which two actions must be performed so that only high-speed 2.4-GHz clients connect? (Choose two.)

- A. Enable the Broadcast SSID option.
- B. Enable the Status option.
- C. Set the Radio Policy option to 802.11a Only.
- D. Set the Interface/Interface Group(G) to an interface other than guest.
- E. Set the Radio Policy option to 802.11g Only.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

What is the PUT method within HTTP?

- A. It is a read-only operation.
- B. It replaces data at the destination.
- C. It is a nonidempotent operation.
- D. It displays a web site.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

The clients and DHCP server reside on different subnets. Which command must be used to forward requests and replies between clients on the 10.10.0.1/24 subnet and the DHCP server at 192.168.10.1?

- A. ip helper-address 192.168.10.1
B. ip route 192.168.10.1
C. ip default-gateway 192.168.10.1
D. ip dhcp address 192.168.10.1

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108

Which functionality is provided by the console connection on a Cisco WLC?

- A. secure in-band connectivity for device administration
B. out-of-band management
C. unencrypted in-band connectivity for file transfers
D. HTTP-based GUI connectivity

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 109

```
Router1#show interface ethernet 1
Ethernet1 is up, line protocol is up
Hardware is Lance, address is 0010.7b36.1be8 (bia 0010.7b36.1be8)
Internet address is 10.100.48.240/24
MTU 1500 bytes, BW 10000 Kbit, 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 00:00:06, output hang never
Last clearing of "show interface" counters never
Input queue: 1/75/1/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: random early detection (RED)
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
 7558065 packets input, 783768942 bytes, 1 no buffer
Received 8280963 broadcasts, 0 runts, 0 giants, 1 throttles
 15 input errors, 14278 CRC, 0 frame, 0 overrun, 3 ignored
 0 input packets with dribble condition detected
798092 packets output, 50280266 bytes, 0 underruns
 0 output errors, 15000 collisions, 0 interface resets
 0 babbles, 0 late collision, 179 deferred
 0 lost carrier, 0 no carrier
 0 output buffer failures, 0 output buffers swapped out
```

Refer to the exhibit. An administrator received a call from a branch office regarding poor application performance hosted at the headquarters. Ethernet 1 is connected between Router1 and the LAN switch. What identifies the issue?

- A. There is a duplex mismatch.
- B. The MTU is not set to the default value.
- C. The link is over utilized.
- D. The QoS policy is dropping traffic.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, 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, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate
       default
       U - per-user static route, o - ODR
Gateway of last resort is not set
C    10.0.0.0/8 is directly connected, Loopback0
     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O    10.0.1.3/32 [110/100] via 10.0.1.100, 00:39:08, Serial0
C    10.0.1.0/24 is directly connected, Serial0
O    10.0.1.5/32 [110/5] via 10.0.1.50, 00:39:08, Gigabit Ethernet 0/0
D    10.0.1.4/32 [110/10] via 10.0.1.4, 00:39:08, Gigabit Ethernet 0/0
```

Refer to the exhibit. What does route 10.0.1.3/32 represent in the routing table?

- A. all hosts in the 10.0.1.0 subnet
- B. a single destination address
- C. the source 10.0.1.100
- D. the 10.0.0.0 network

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

What are two characteristics of a small office / home office connection environment? (Choose two.)

- A. It supports between 50 and 100 users.
- B. It requires 10Gb ports on all uplinks.
- C. It requires a core, distribution, and access layer architecture.
- D. A router port connects to a broadband connection.
- E. It supports between 1 and 50 users.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

```
access-list 10 permit 10.0.0.0 0.0.0.255
```

```
interface Serial0
```

```
ip access-list 10 in
```

Refer to the exhibit. A network administrator must permit traffic from the 10.10.0.0/24 subnet to the WAN on interface Serial0. What is the effect of the configuration as the administrator applies the command?

- A. The router fails to apply the access list to the interface.
- B. The sourced traffic from IP range 10.0.0.0 - 10.0.0.255 is allowed on Serial0.
- C. The permit command fails and returns an error code.
- D. The router accepts all incoming traffic to Serial0 with the last octet of the source IP set to 0.

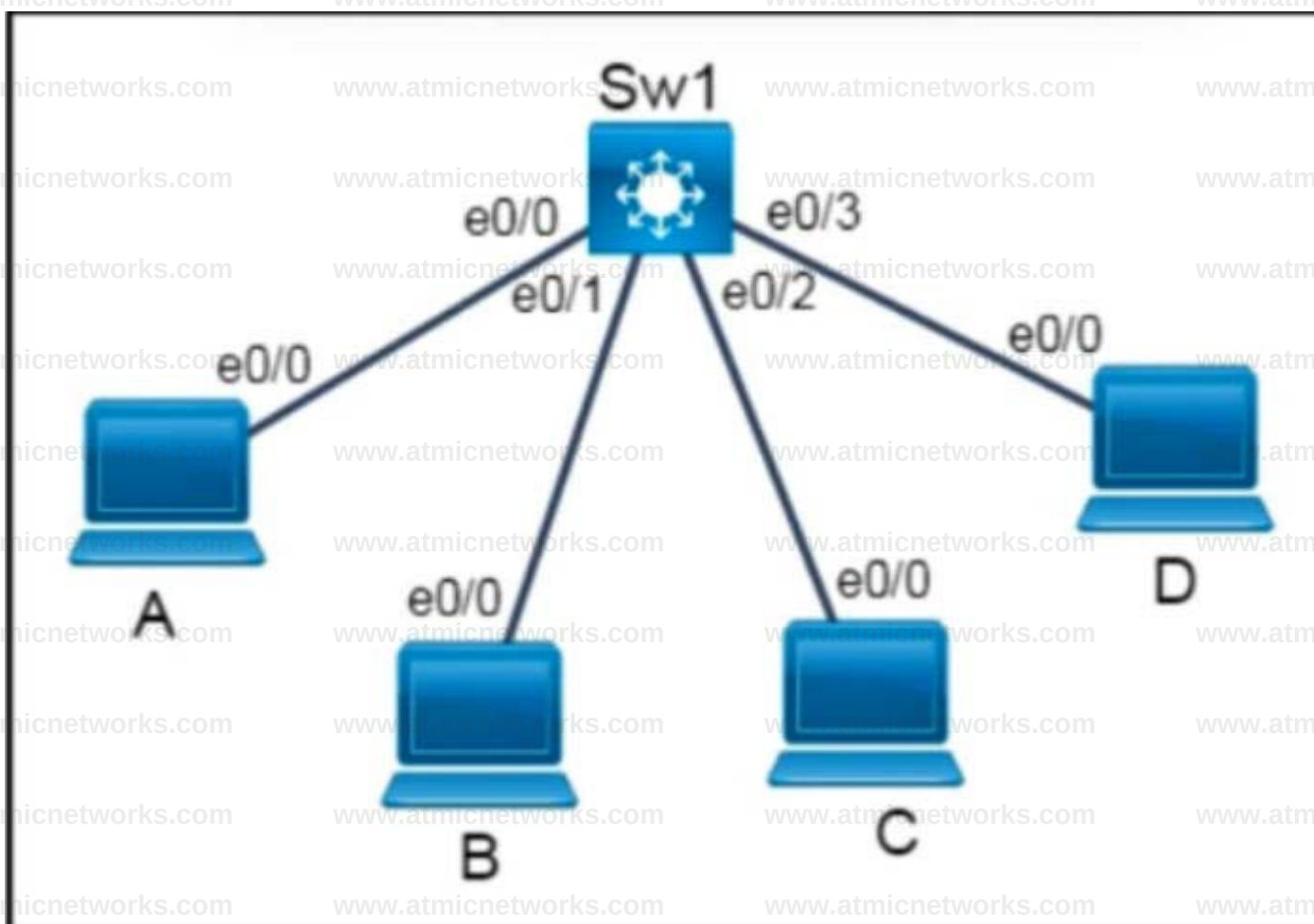
Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 113



Refer to the exhibit. Host A switch interface is configured in VLAN 2. Host D sends a unicast packet destined for the IP address of host A.

Sw1#show mac-address table

Mac Address Table

Vlan	Mac Address	Type	Ports
2	000c.859c.bb7b	DYNAMIC	e0/1
3	000c.859c.bb7b	DYNAMIC	e0/1
2	0010.11dc.3e91	DYNAMIC	e0/2
3	0010.11dc.3e91	DYNAMIC	e0/2
2	0043.54d3.c201	DYNAMIC	e0/3

Sw1#

What does the switch do when it receives the frame from host D?

- A. It floods the frame out of every port except the source port.
- B. It creates a broadcast storm.
- C. It drops the frame from the MAC table of the switch.
- D. It shuts down the source port and places it in err-disable mode.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

Which difference between point-to-point and shared Ethernet connectivity must be considered when addressing slow throughput in a server environment?

- A. Point-to-point connections in full-duplex mode require CSMA/CD, and shared Ethernet operates in full-duplex mode without CSMA/CD.
- B. Point-to-point requires stations to transmit and receive data one device at a time, and shared Ethernet transmits data from both devices at the same time.
- C. Shared Ethernet requires full-duplex connectivity, and point-to-point supports only half-duplex transmissions.
- D. Shared Ethernet connections operate in half-duplex mode because they require CSMA/CD, and point-to-point operates in full-duplex mode.

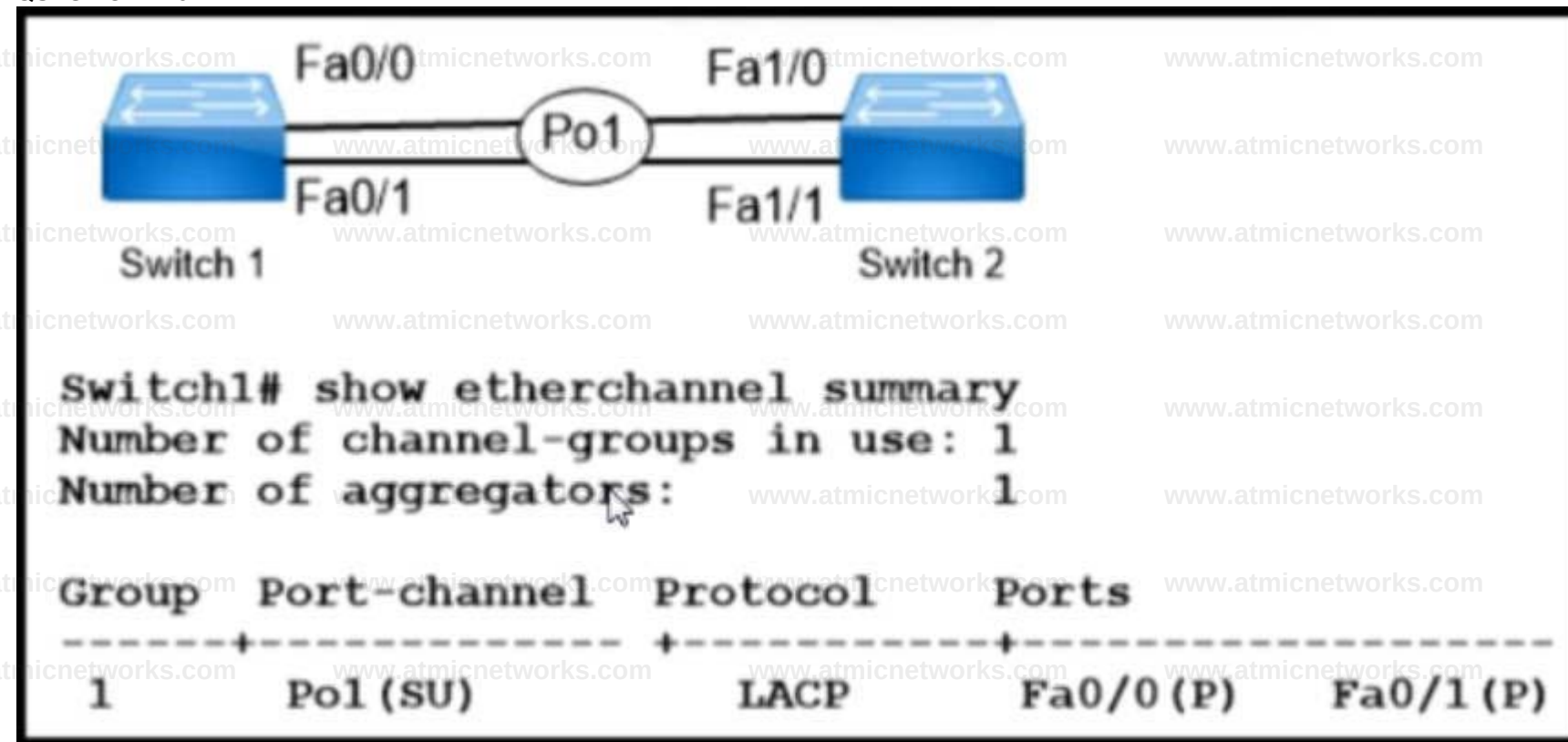
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115



Refer to the exhibit. A Cisco engineer is asked to update the configuration on switch 1 so that the EtherChannel stays up when one of the links fails. Which configuration meets this requirement?

- A. Switch1(config) # interface Fa0/0
Switch1(config-if) # lacp port-priority 200
Switch1(config) # interface Fa0/1
Switch1(config-if) # lacp port-priority 100
- B. Switch1(config) # interface port-channel 1
Switch1(config-if) #port-channel min-links 1
- C. Switch1(config) # interface Fa0/0
Switch1(config-if) # lacp port-priority 100
Switch1(config) #interface Fa0/1
Switch1(config-if) #lacp port-priority 200

- A. 3
- B. 5
- C. 6
- D. 15

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 120

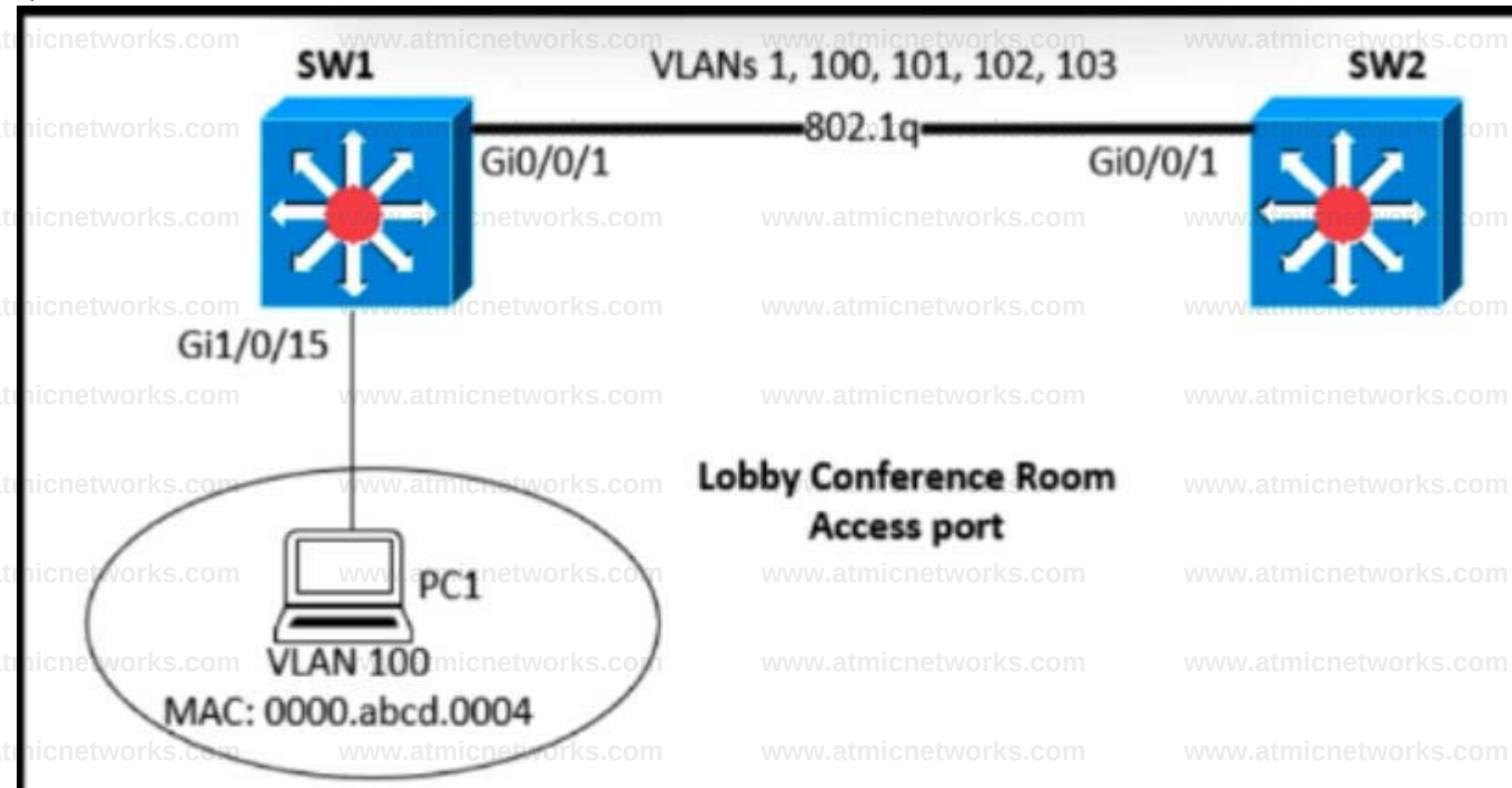
What is a function of the core and distribution layers in a collapsed-core architecture?

- A. The core and distribution layers are deployed on two different devices to enable failover.
- B. The router must use IPv4 and IPv6 addresses at Layer 3.
- C. The router operates on a single device or a redundant pair.
- D. The router can support HSRP for Layer 2 redundancy in an IPv6 network.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 121



SW1 supports connectivity for a lobby conference room and must be secured. The engineer must limit the connectivity from PC1 to the SW1 and SW2 network. The MAC addresses allowed must be limited to two. Which configuration secures the conference room connect

- A. interface gi1/0/15

www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
switchport port-security switchport port-security maximum 2						
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B. interface gi1/0/15 switchport port-security switchport port-security mac-address 0000.abcd.0004 vlan 100						
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C. interface gi1/0/15 switchport port-security mac-address 0000.abcd.0004 vlan 100 interface switchport secure-mac limit 2						
www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
D. interface gi1/0/15 switchport port-security mac-address 0000.abcd.0004 vlan 100						

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which two types of attack are categorized as social engineering? (Choose two.)

- A. probing
- B. phishing
- C. malvertising
- D. phoning
- E. pharming

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

答案存疑

QUESTION 123

Which two IP addressing schemes provide Internet access to users on the network while preserving the public IPv4 address space? (Choose two.)

- A. PAT with private internal addressing
- B. single public Class A network
- C. private networks only
- D. IPv6 addressing
- E. custom addresses from ARIN

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 124

What is a functionality of the control plane in the network?

- A. It provides CLI access to the network device.
- B. It exchanges topology information with other routers.
- C. It forwards traffic to the next hop.
- D. It looks up an egress interface in the forwarding information base.

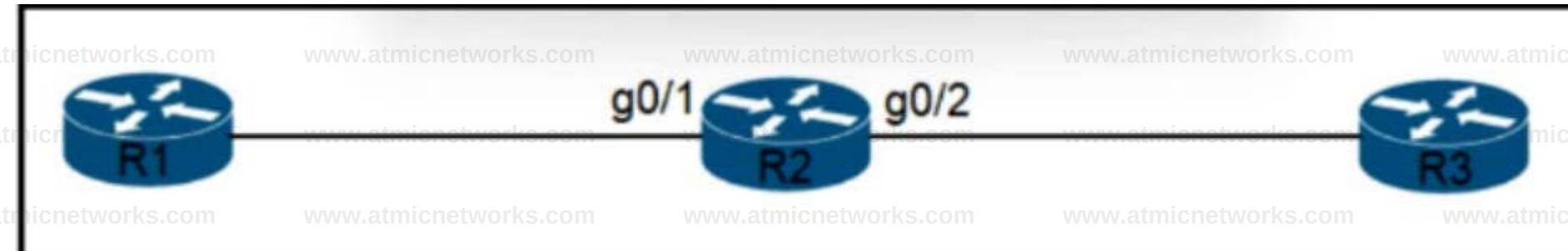
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125



Refer to the exhibit. Routers R1, R2, and R3 use a protocol to identify their neighbors' IP addresses, hardware platforms, and software versions. A network engineer must configure R2 to avoid sharing any neighbor information with R3, and maintain its relationship with R1. What action meets this requirement?

- A. Configure the no cdp run command globally.
- B. Configure the no cdp enable command on g0/2.
- C. Configure the no lldp receive command on g0/1
- D. Configure the no lldp run command globally.

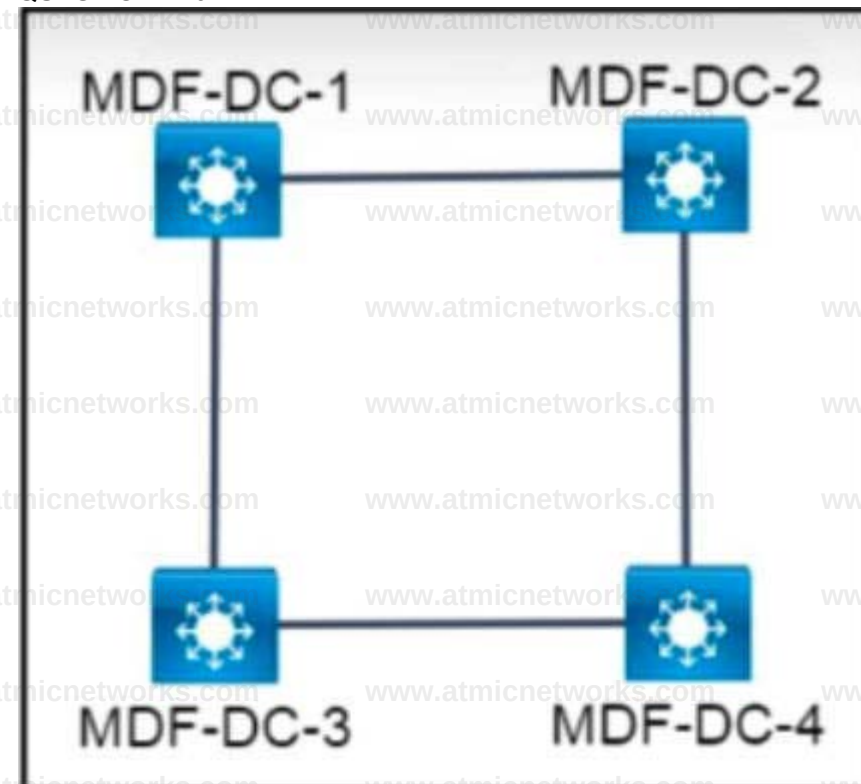
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126



Refer to the exhibit. All switches are configured with the default STP priorities. During STP elections, which switch becomes the root bridge if all interfaces are in the same VLAN?

- A. MDF-DC-2: 0d:0E:18:1B:05:97

- B. MDF-DC-3: 0d:0E:18:2A:3C:9D
C. MDF-DC-4: 0d:E0:19:A1:B3:19
D. MDF-DC-1: 0d:E0:XX:XX:XX:XX

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 127

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 6 subnets, 5 masks

S 10.0.0.0/8 is directly connected, GigabitEthernet0/0

C 10.1.1.0/24 is directly connected, GigabitEthernet0/0

L 10.1.1.1/32 is directly connected, GigabitEthernet0/0

S 10.10.0.0/22 is directly connected, GigabitEthernet0/0

S 10.10.10.0/28 is directly connected, GigabitEthernet0/0

S 10.10.10.1/32 is directly connected, GigabitEthernet0/0

S* 0.0.0.0/0 is directly connected, GigabitEthernet0/0

Refer to the exhibit. Which IP route command created the best path for a packet destined for 10.10.10.3?

- A. ip route 10.10.10.1 255.255.255.255 g0/0
B. ip route 10.10.0.0 255.255.252.0 g0/0
C. ip route 10.10.10.0 255.255.255.240 g0/0
D. ip route 10.0.0.0 255.0.0.0 g0/0

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 128

What happens when a switch receives a frame with a destination MAC address that recently aged out?

- A. The switch references the MAC address aging table for historical addresses on the port that received the frame.
B. The switch floods the frame to all ports in all VLANs except the port that received the frame.
C. The switch floods the frame to all ports in the VLAN except the port that received the frame.
D. The switch drops the frame and learns the destination MAC address again from the port that received the frame.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 129

```

R1#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.2/24, Area 0
Process ID 1, Router ID 192.168.1.2, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 15, Dead 20, Wait 20, Retransmit 5
Hello due in 00:00:08
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)

R2#show ip ospf interface g0/0/0
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.1/24, Area 0
Process ID 1, Router ID 10.1.1.1, Network Type POINT-TO-POINT, Cost: 1
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:11
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Suppress hello for 0 neighbor(s)

```

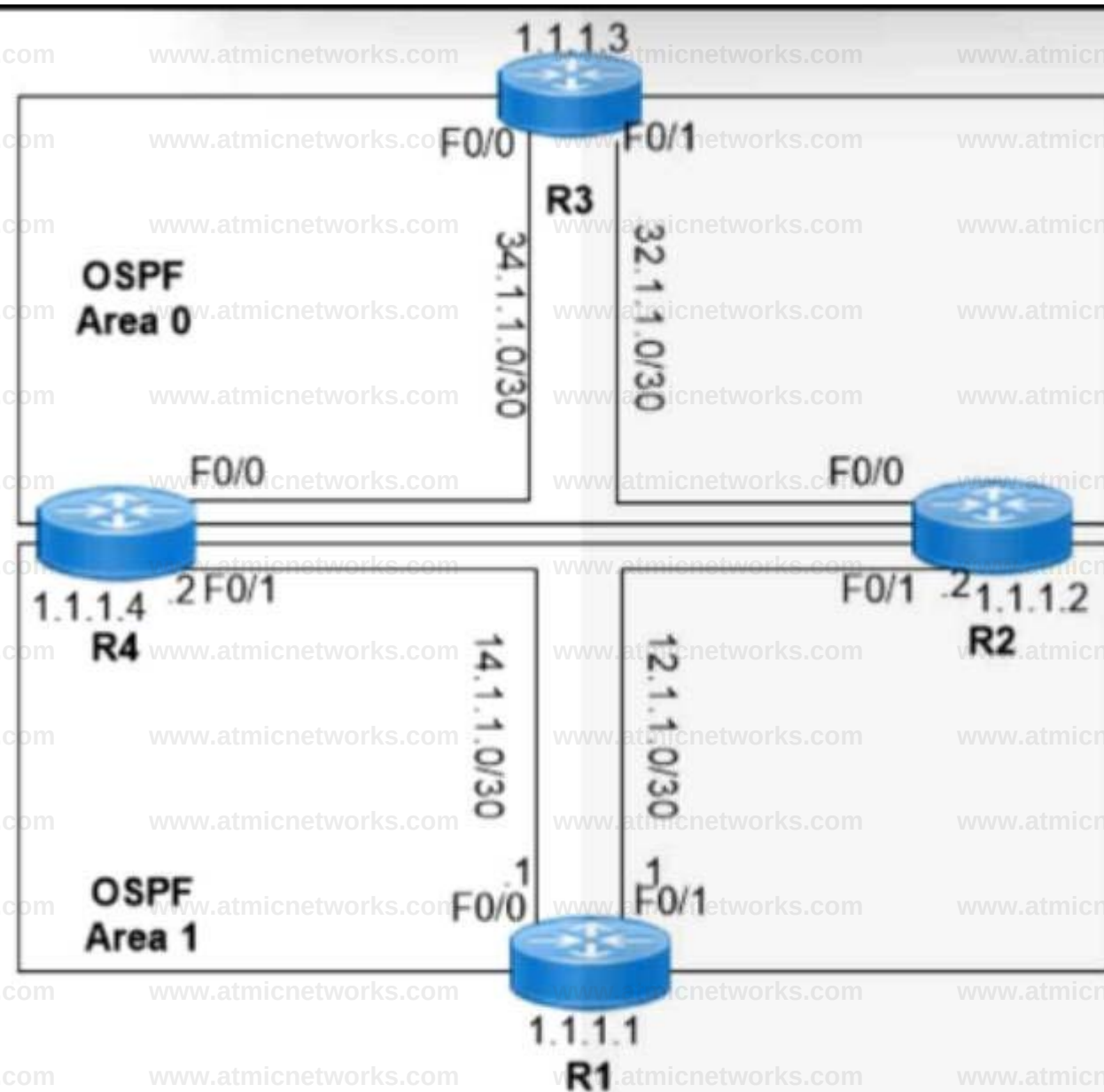
Refer to the exhibit. The network engineer is configuring router R2 as a replacement router on the network. After the initial configuration is applied, it is determined that R2 failed to show R1 as a neighbor. Which configuration must be applied to R2 to complete the OSPF configuration and enable it to establish the neighbor relationship with R1?

- A. R2(config)#router ospf 1
R2(config-router)#router-id 192.168.1.2
- B. R2(config)#router ospf 1
R2(config-router)#network 192.168.1.0 255.255.255.0 area 2
R2(config-router)#network 10.1.1.0 255.255.255.255 area 2
- C. R2(config)#interface g0/0/0
R2(config-if)#ip ospf hello-interval 15
R2(config-if)#ip ospf dead-interval 20
- D. R2(config)#interface g0/0/0
R2(config-if)#ip ospf dead-interval 20

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 130



R1#show ip route

1.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

O IA 1.1.1.0/24 [110/3] via 12.1.1.2, 00:00:25, FastEthernet0/0

C 24.1.1.0/30 is directly connected, FastEthernet2/0

C 34.1.1.0/30 is directly connected, FastEthernet3/0

S 1.1.1.3/32 [1/0] via 14.1.1.2

Refer to the exhibit. Which two values does router R1 use to identify valid routes for the R3 loopback address 1.1.1.3/32? (Choose two.)

- A. lowest metric
- B. highest metric
- C. highest administrative distance
- D. lowest administrative distance

E. lowest cost to reach the next hop

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

The screenshot shows the 'WLANs > Edit 'CCNA'' configuration page. The 'General' tab is active, displaying various settings. The 'Policy-Mapping' tab is also visible. Key settings include:

- General Tab:**
 - Allow AAA Override: ☐ Enabled
 - Coverage Hole Detection: ☐ Enabled
 - Enable Session Timeout: ☐ Enabled, Session Timeout (secs): 3600
 - Aironet IE: ☐ Enabled
 - Diagnostic Channel: ☐ Enabled
 - Override Interface ACL: IPv4: None, IPv6: None
 - Layer2 Acl: None
 - P2P Blocking Action: Disabled
 - Client Exclusion: ☐ Enabled, Timeout Value (secs): 3600
 - Maximum Allowed Clients: 10
 - Static IP Tunneling: ☐ Enabled
 - Wi-Fi Direct Clients Policy: Disabled
 - Maximum Allowed Clients Per AP Radio: 200
 - Clear HotSpot Configuration: ☐ Enabled
 - Client user idle timeout(15-100000): ☐
 - Client user idle threshold(0-10000000): 0 Bytes
- Policy-Mapping Tab:**
 - DHCP:**
 - DHCP Server: ☐ Override
 - DHCP Addr. Assignment: ☐ Required
 - OEAP:**
 - Split Tunnel: ☐ Enabled
 - Management Frame Protection (MFP):**
 - MFP Client Protection: Optional
 - DTIM Period (in beacon intervals): 802.11a/n (1 - 255): 1, 802.11b/g/n (1 - 255): 1
 - NAC:**
 - NAC State: None
 - Load Balancing and Band Select:**
 - Client Load Balancing: ☐

Refer to the exhibit. A network engineer configures the CCNA WLAN so that clients must reauthenticate hourly and to limit the number of simultaneous connections to the WLAN to 10. Which two actions complete this configuration? (Choose two.)

- A. Enable the Wi-Fi Direct Clients Policy option.
- B. Set the Maximum Allowed Clients Per AP Radio value to 10.
- C. Set the Maximum Allowed Clients value to 10.
- D. Enable the Client Exclusion option and set the value to 3600.
- E. Enable the Enable Session Timeout option and set the value to 3600.

Correct Answer: CE

Section: (none)

Explanation/Reference:

QUESTION 132

A client experiences slow throughput from a server that is directly connected to the core switch in a data center. A network engineer finds minimal latency on connections to the server, but data transfers are unreliable, and the output of the show interfaces counters errors command shows a high FCs-Err count on the interface that is connected to the server. What is the cause of the throughput issue?

A. a cable that is too long

B. a speed mismatch

C. a physical cable fault

D. high bandwidth usage

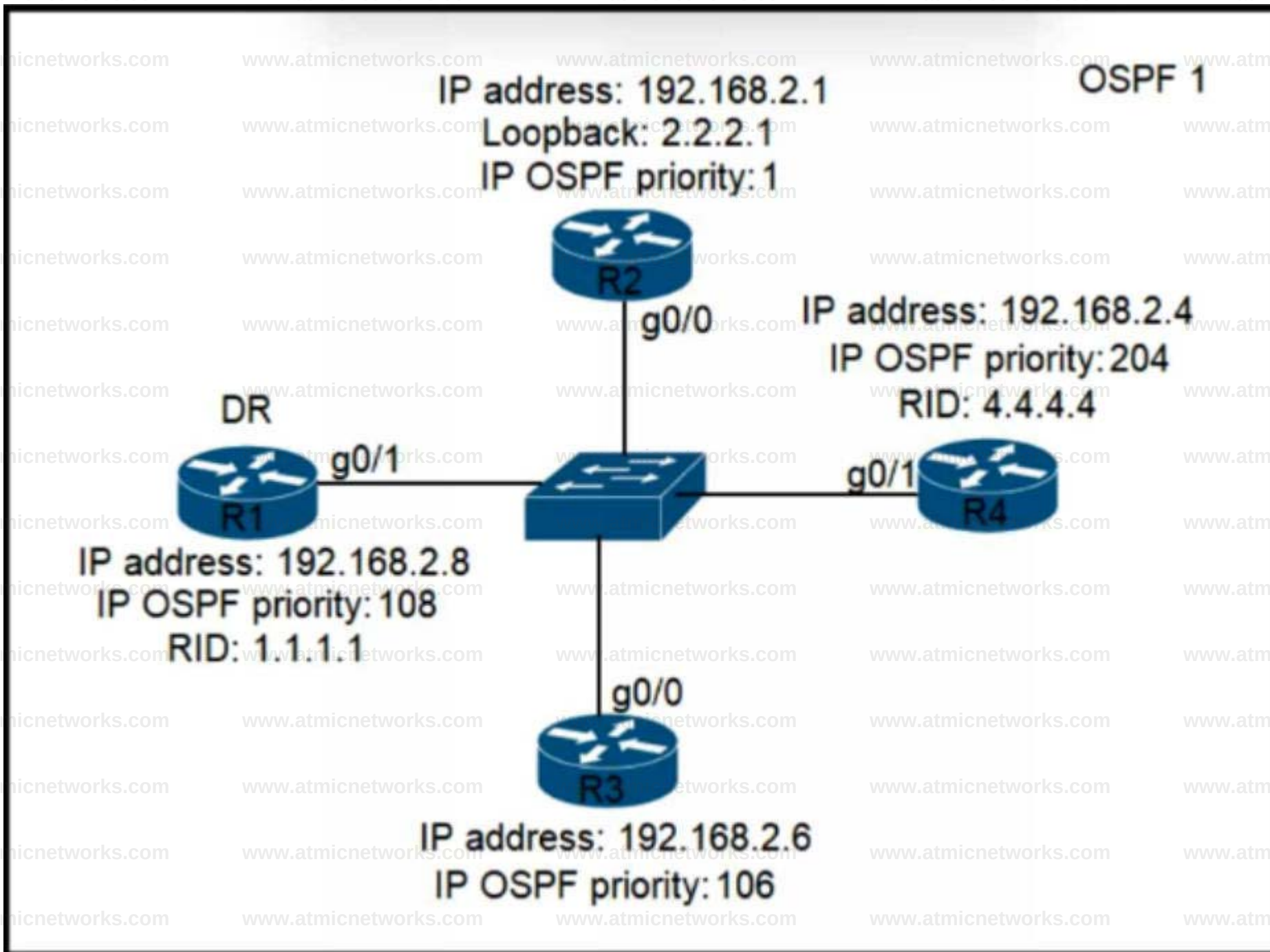
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133



Refer to the exhibit. A network engineer is verifying the settings on a new OSPF network. All OSPF configurations use the default values unless otherwise indicated. Which router does the engineer expect will be elected as the DR when all devices boot up simultaneously?

- A. R1
- B. R2
- C. R3
- D. R4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

What are two purposes of HSRP? (Choose two.)

- A. It groups two or more routers to operate as one virtual router
- B. It helps hosts on the network to reach remote subnets without a default gateway.
- C. It provides a mechanism for diskless clients to autoconfigure their IP parameters during boot.
- D. It improves network availability by providing redundant gateways.
- E. It passes configuration information to hosts in a TCP/IP network.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

What are two functions of a firewall within an enterprise? (Choose two.)

- A. It serves as an endpoint for a site-to-site VPN in standalone mode.
- B. It offers Layer 2 services between hosts.
- C. It enables wireless devices to connect to the network.
- D. It enables traffic filtering based on URLs.
- E. It provides support as an endpoint for a remote access VPN in multiple context mode.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

答案存疑

QUESTION 136

```

OldR#show ip ospf interface
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.2/24, Area 0
Process ID 1, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
Transmit Delay is 1 sec, State DROTHER, Priority 1
Designated Router (ID) 192.168.1.1, Interface address 192.168.1.1
Backup Designated Router (ID) 192.168.1.1, Interface address 192.168.1.1
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:01
Index 1/1, flood queue length 0
Neighbor Count is 1, Adjacent neighbor count is 2

R2#show ip ospf interface
GigabitEthernet0/0/0 is up, line protocol is up
Internet address is 192.168.1.1/24, Area 0
Process ID 1, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
Transmit Delay is 1 sec, State DROTHER, Priority 1
Designated Router (ID) 192.168.1.1, Interface address 192.168.1.2
Backup Designated Router (ID) 192.168.1.1, Interface address 192.168.1.2
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:02
Index 2/2, flood queue length 0
Neighbor Count is 1, Adjacent neighbor count is 2

```

Refer to the exhibit. Router OldR is replacing another router on the network with the intention of having OldR and R2 exchange routes. After the engineer applied the initial OSPF configuration, the routes were still missing on both devices. Which command sequence must be issued before the clear IP ospf process command is entered to enable the neighbor relationship?

- A. OldR(config)#router ospf 1
OldR(config-router)#no router-id 192.168.1.1
- B. OldR(config)#router ospf 1
OldR(config-router)#network 192.168.1.0 255.255.255.0 area 2
- C. OldR(config)#interface g0/0/0
OldR(config-if)#ip ospf hello-interval 15
- D. OldR(config)#interface g0/0/0
OldR(config-if)#ip ospf dead-interval 15

Correct Answer: A

Section: (none)

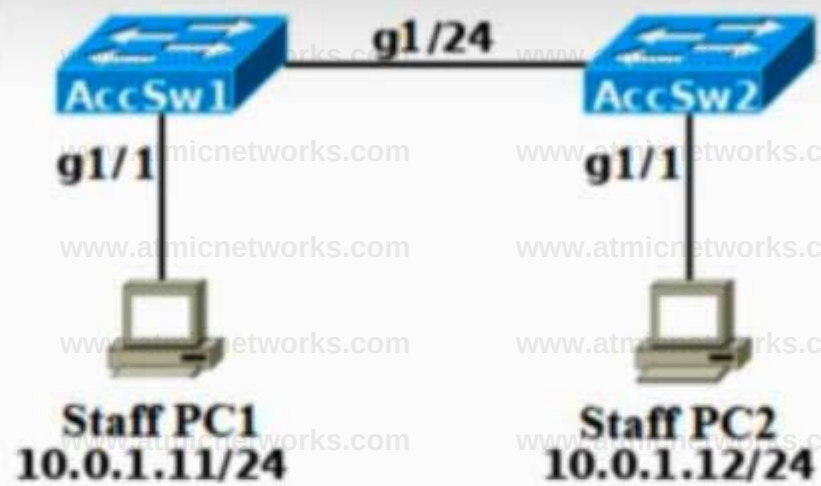
Explanation

Explanation/Reference:

QUESTION 137

What is a reason to implement LAG on a Cisco WLC?

- A. Increase the available throughput on the link.



AccSw1#sho vlan

VLAN Name	Status	Ports
1 default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24,
2 IT-Support	active	Fa0/1
3 Servers	active	Fa0/2
11 Staff	active	Gig1/1
12 Guests	active	Gig1/2

output suppressed

Refer to the exhibit. Switch AccSw2 has just been added to the network along with PC2. All VLANs have been implemented on AccSw2. How must the ports on AccSw2 be configured to establish Layer 2 connectivity between PC1 and PC2?

- A. interface GigabitEthernet1/2
switchport mode access
switchport access vlan 2
interface GigabitEthernet1/24
switchport mode trunk
- B. interface GigabitEthernet1/1
switchport mode access
switchport access vlan 11
interface GigabitEthernet1/24
switchport mode trunk
- C. interface GigabitEthernet1/24
switchport mode trunk

```
switchport trunk allowed vian 11,12
interface GigabitEthernet1/1
switchport access vlan 11
```

```
D. interface GigabitEthernet1/2
switchport mode access
switchport access vlan 12
interface GigabitEthernet1/2
switchport mode trunk
switchport trunk allowed vlan
```

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 140

What must be considered before deploying virtual machines?

- A. whether to leverage VSM to map multiple virtual processors to two or more virtual machines
- B. support for physical peripherals, such as monitors, keyboards, and mice
- C. resource limitations, such as the number of CPU cores and the amount of memory
- D. location of the virtual machines within the data center environment

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 141

What are two features of PortFast? (Choose two.)

- A. STP loops are mitigated for uplinks to other switches
- B. Ports transition directly from the blocking state to the forwarding state.
- C. Ports that connect to the backbone automatically detect indirect link failures.
- D. Ports operate normally without receiving BPDUs.
- E. Convergence is fast after a link failure.

Correct Answer: BD
Section: (none)
Explanation

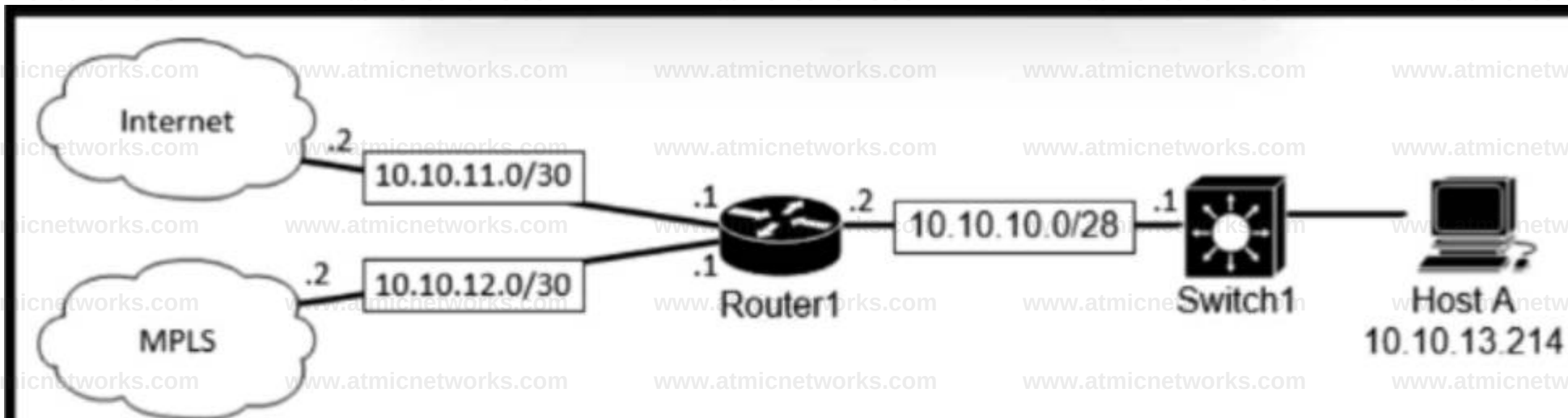
Explanation/Reference:

QUESTION 142

Which command must be entered so that the default gateway is automatically distributed when DHCP is configured on a router?

- A. dns-server
- B. ip helper-address
- C. default-router
- D. default-gateway

Correct Answer: C
Section: (none)
Explanation



```

Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

209.165.200.0/27 is subnetted, 1 subnets
B    209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
209.165.201.0/27 is subnetted, 1 subnets
B    209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
209.165.202.0/27 is subnetted, 1 subnets
B    209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C    10.10.10.0/28 is directly connected, GigabitEthernet0/0
C    10.10.11.0/30 is directly connected, FastEthernet2/0
C    10.10.12.0/30 is directly connected, GigabitEthernet0/1
O    10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O    10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O    10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O    10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O    10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
  
```

Refer to the exhibit. What is the prefix length for the route that router1 will use to reach host A?

- A. /25
- B. /27
- C. /28
- D. /29

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 145

What describes the functionality of southbound APIs?

- A. They enable communication between the controller and the network device.
- B. They convey information from the controller to the SDN applications.
- C. They use HTTP messages to communicate.
- D. They communicate with the management plane.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

Anetwork administrator wants the syslog server to filter incoming messages into different files based on their importance. Which filtering criteria must be used?

- A. process ID
- B. message body
- C. level
- D. facility

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

```
{ "Employee's name":"Arthur" }
```

Refer to the exhibit. Which type of JSON data is shown?

- A. boolean
- B. object
- C. array
- D. key

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

What is an enhancement implemented in WPA3?

- A. defends against deauthentication and disassociation attacks
- B. uses TKIP and per-packet keying

- C. employs PKI and RADIUS to identify access points
- D. applies 802.1x authentication and AES-128 encryption

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

The screenshot shows the Cisco Wireless LAN Controller (WLC) configuration page, specifically the Security tab. The configuration is as follows:

- General:**
 - Allow AAA Override: ☐ Enabled
 - Coverage Hole Detection: ☒ Enabled
 - Enable Session Timeout: ☒ 1800 (Session Timeout (secs))
 - Aironet IE: ☐ Enabled
 - Diagnostic Channel: 18
 - Override Interface ACL: IPv4: None, IPv6: None
 - Layer2 Acl: None
 - URL ACL: None
 - P2P Blocking Action: Disabled
 - Client Exclusion: ☒ Enabled, 180 (Timeout Value (secs))
 - Maximum Allowed Clients: 0
 - Static IP Tunneling: ☐ Enabled
 - Wi-Fi Direct Clients Policy: Disabled
 - Maximum Allowed Clients Per AP Radio: 200
- DHCP:**
 - DHCP Server: ☒ Override, 0.0.0.0 (DHCP Server IP Addr)
 - DHCP Addr. Assignment: ☐ Required
- Management Frame Protection (MFP):**
 - MFP Client Protection: ☐ Optional
- DTIM Period (in beacon intervals):**
 - 802.11a/n (1 - 255): 1
 - 802.11b/g/n (1 - 255): 1
- NAC:**
 - NAC State: None
- Load Balancing and Band Select:**
 - Client Load Balancing: ☐
 - Client Band Select: ☐

Refer to the exhibit. The P2P Blocking Action option is disabled on the WLC. The security team has a new requirement for each client to retain their assigned IP addressing as the clients move between locations in the campus network. Which action completes this configuration?

- A. Check the DHCP Addr. Assignment check box.
- B. Enable the Static IP Tunneling option.
- C. Set the P2P Blocking Action option to Forward-UpStream.
- D. Disable the Coverage Hole Detection option.

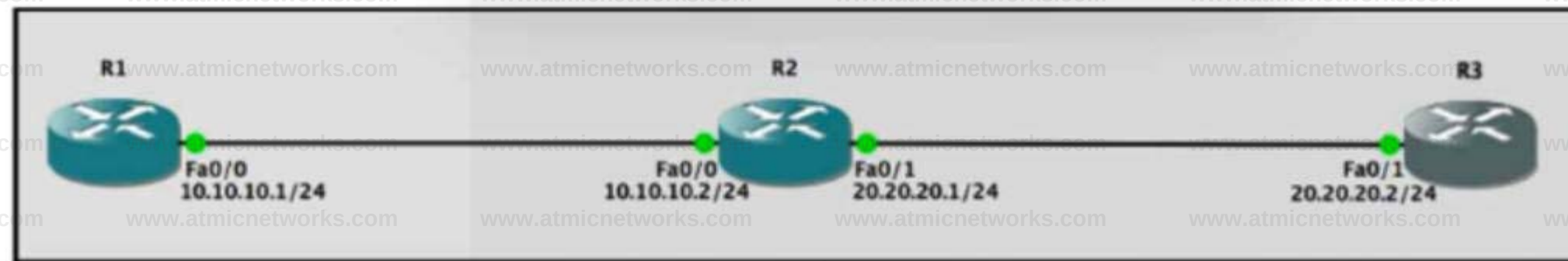
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150



```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

10.0.0.0/24 is subnetted, 1 subnets
C 10.10.10.0 is directly connected, FastEthernet0/0
```

```
R2#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

20.0.0.0/24 is subnetted, 1 subnets
C 20.20.20.0 is directly connected, FastEthernet0/1
C 10.0.0.0/24 is subnetted, 1 subnets
C 10.10.10.0 is directly connected, FastEthernet0/0
```

```
R3#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

20.0.0.0/24 is subnetted, 1 subnets
C 20.20.20.0 is directly connected, FastEthernet0/1
C 10.0.0.0/24 is subnetted, 1 subnets
S 10.10.10.0 [1/0] via 20.20.20.1
```

Refer to the exhibit. Router R1 Fa0/0 is unable to ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

- A. set the default gateway as 20.20.20.2
- B. set the default network as 20.20.20.0/24
- C. configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network
- D. configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

When a 5 GHz wireless network is implemented using 20 MHz channels with no DFS, how many nonoverlapping channels are available?

- A. 8
- B. 6
- C. 9
- D. 4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

```
{
  "Test_Questions" : [
    "Automation",
    "Configuration",
  ],
  "Test_Exam_Level" : [
    "CCNA",
    "CCNP",
  ],
  "Test_Response" : [
    "Correct",
    "Incorrect",
  ],
}
```

Refer to the exhibit. How many arrays are present in the JSON data?

- A. one
- B. three
- C. six
- D. nine

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 153

When deploying syslog, which severity level logs informational messages?


```
Router# show interface FastEthernet0/0

FastEthernet0/0 is up, line protocol is up
Hardware is Gt96K FE, address is 0017.59b2.7fb2 (bia 0017.59b2.7fb2)
Internet address is 10.0.0.2/30
MTU 1500 bytes, BW 100000 Kbit/sec, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Half-duplex, 100Mb/s, 100BaseTX/FX
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:04, output 00:00:04, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 1
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 516000 bits/sec, 45 packets/sec
5 minute output rate 516000 bits/sec, 46 packets/sec
 13282 packets input, 20075670 bytes
   Received 25 broadcasts, 0 runts, 0 giants, 0 throttles
  383 input errors, 383 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog
    0 input packets with dribble condition detected
 13438 packets output, 20084258 bytes, 0 underruns
    0 output errors, 831 collisions, 5 interface resets
    11 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
```

Refer to the exhibit. Users at a branch office are experiencing application performance issues, poor VoIP audio quality, and slow downloads. What is the cause of the issues?

- A. QoS queuing
- B. broadcast storm
- C. interface configuration
- D. overutilization

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 156

What occurs when a switch receives a frame that has a destination that is an unknown MAC address?

- A. The frame is flooded to all interfaces in the switch.
- B. The frame is discarded.
- C. The MAC address table of the switch is flushed.
- D. The frame is flooded to all interfaces in the VLAN to which the frame belongs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

What is the purpose of an ESSID?

- A. It serves as the wireless MAC address of the access point.
- B. It allows multiple access points to provide a common network for client connections
- C. It provides greater security than a standard SSID.
- D. it supports fast roaming features such as 802.11r, 802.11k, and 802.11v.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 158

```
router# show ip route
```

```
....
```

```
D 172.16.32.0/26 [90/25789217] via 10.0.0.1
```

```
R 172.16.32.0/24 [120/4] via 10.0.0.2
```

```
O 172.16.32.0/19 [110/229840] via 10.0.0.3
```

```
C 172.16.32.32/32 is directly connected, Loopback0
```

```
C 172.16.32.4/30 is directly connected, GigabitEthernet0/0
```

Refer to the exhibit. A packet sourced from 172.16.32.254 is destined for 172.16.32.8. What is the subnet mask of the preferred destination route?

- A. 255.255.224.0
- B. 255.255.255.0
- C. 255.255.255.192
- D. 255.255.255.252

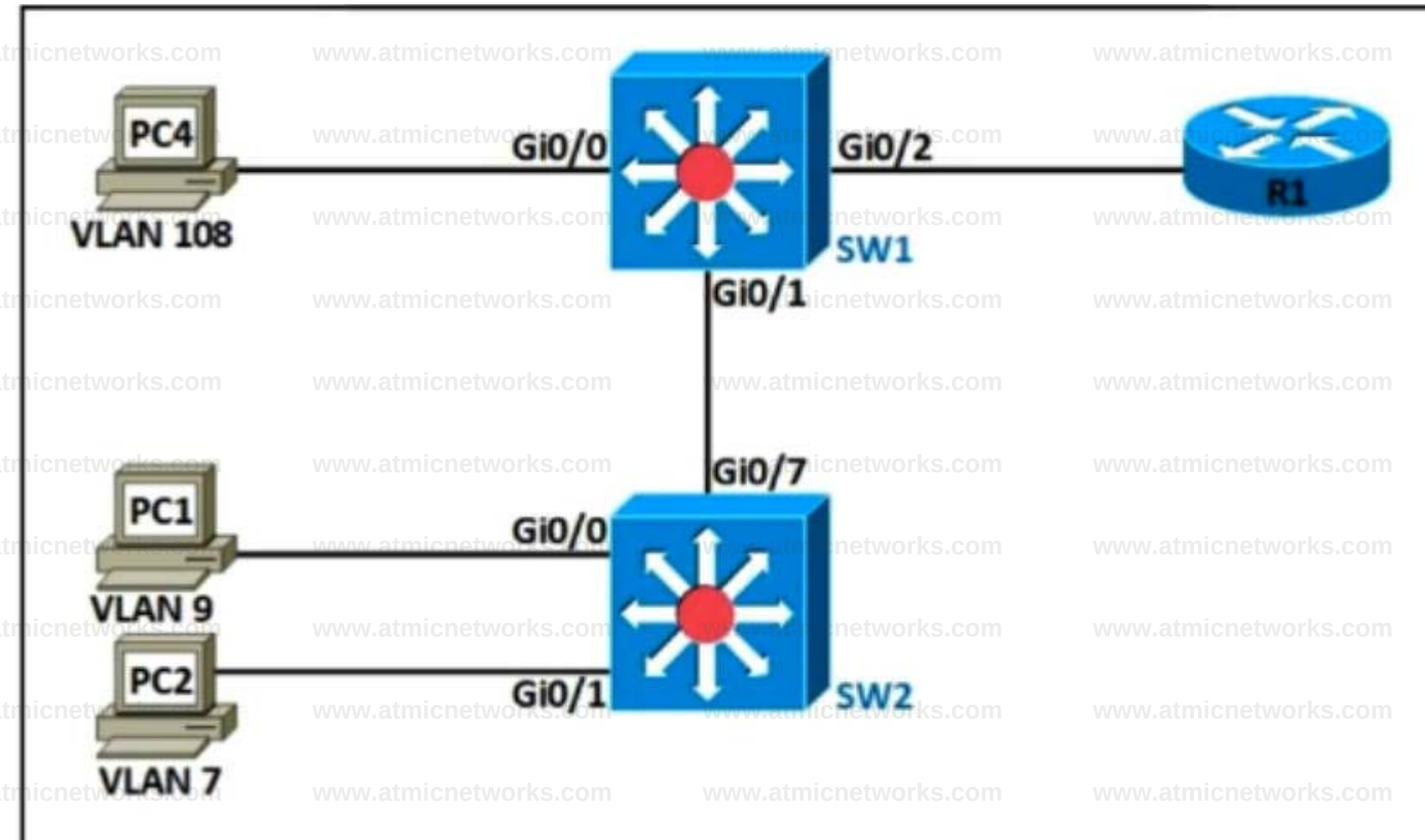
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 159



Refer to the exhibit. The SW1 and SW2 Gi0/0 ports have been preconfigured. An engineer is given these requirements:

Allow all PCs to communicate with each other at Layer 3.

Configure untagged traffic to use VLAN 5.

Disable VLAN 1 from being used.

Which configuration set meets these requirements?

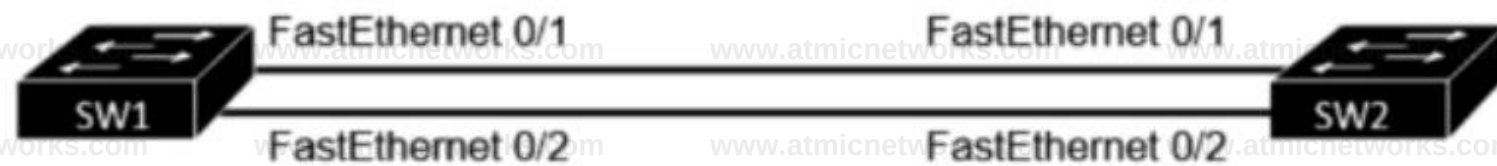
A. SW1#
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 5,7,9,108
switchport trunk native vlan 5

interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 5,7,9,108

SW2#
interface Gi0/1
switchport mode access
switchport access vlan 7

interface Gi0/7
switchport mode trunk
switchport trunk allowed vlan 5,7,9,108
switchport trunk native vlan 5

B. SW1#



```
SW1#show run interface fastEthernet 0/1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode active
```

```
SW1#show run interface fastEthernet 0/2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200
channel-group 1 mode active
```

```
SW2#show run interface fastEthernet 0/1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode active
```

```
SW2#show run interface fastEthernet 0/2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode active
```

Refer to the exhibit. An engineer is building a new Layer 2 LACP EtherChannel between SW1 and SW2, and they executed the given show commands to verify the work. Which additional task must be performed so that the switches successfully bundle the second member in the LACP port-channel? I

- A. Configure the switchport trunk allowed vlan add 300 command on interface Fa0/2 on Sw2.
- B. Configure the switchport trunk allowed vlan 300 command on SW1 port-channel 1.
- C. Configure the switchport trunk allowed vlan add 300 command on SW1 port-channel 1.
- D. Configure the switchport trunk allowed vlan 300 command on interface Fa0/2 on SW1.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, 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, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR
Gateway of last resort is not set

C    172.16.0.0/16 is directly connected, Loopback0
     172.16.0.0/16 is variably subnetted, 4 subnets, 2 masks
O    172.16.1.3/32 [110/100] via 10.0.1.100, 00:39:08, Serial0
O    172.16.1.9/32 [110/5] via 172.16.1.50, 00:43:01, Gigabit Ethernet 0/0
D    172.16.1.4/30 [90/7445] via 172.16.9.5, 00:39:08, Gigabit Ethernet 0/0
     [90/7445] via 172.16.4.4, 00:39:08, Gigabit Ethernet 0/4
```

Refer to the exhibit. How does router R1 handle traffic to the 172.16.1.4 /30 subnet?

- A. It sends all traffic over the path via 10.0.1.100.
- B. It sends all traffic over the path via 172.16.4.4
- C. It sends all traffic over the path via 172.16.9.5 using 172.16.4.4 as a backup.
- D. It load-balances traffic over 172.16.9.5 and 172.16.4.4.

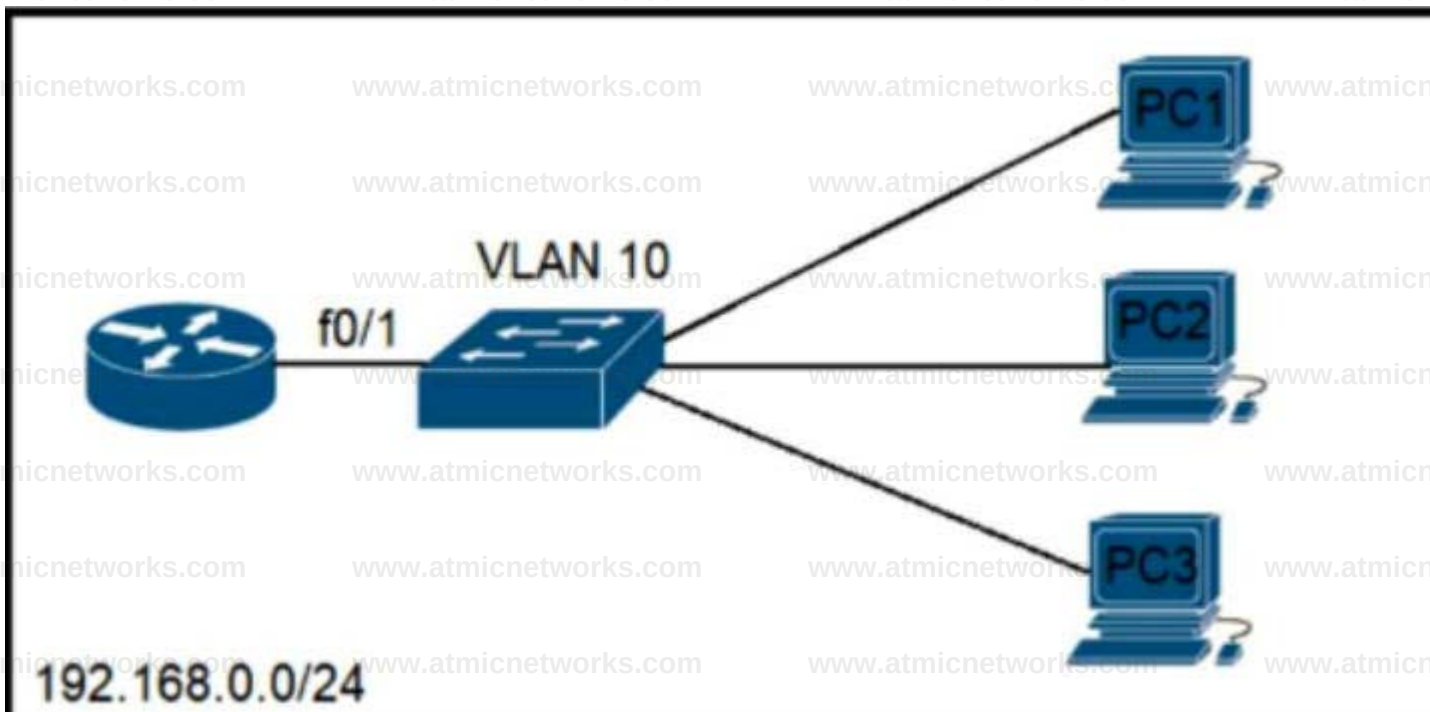
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162



Refer to the exhibit. An engineer assigns IP addressing to the current VLAN with three PCs. The configuration must account for the expansion of 30 additional VLANs that use the same Class C subnet for subnetting and host count. Which command set meets the requirement and reserves address space for the expected growth?

- A. Switch(config)#interface vlan 10
Switch(config-if)#ip address 192.168.0.1 255.255.255.0
- B. Switch(config)#interface vlan 10
Switch(config-if)#ip address 192.168.0.1 255.255.255.248
- C. Switch(config)#interface vlan 10
Switch(config-if)#ip address 192.168.0.1 255.255.255.128
- D. Switch(config)#interface vlan 10
Switch(config-if)#ip address 192.168.0.1 255.255.255.252

Correct Answer: B

Section: (none)

Explanation

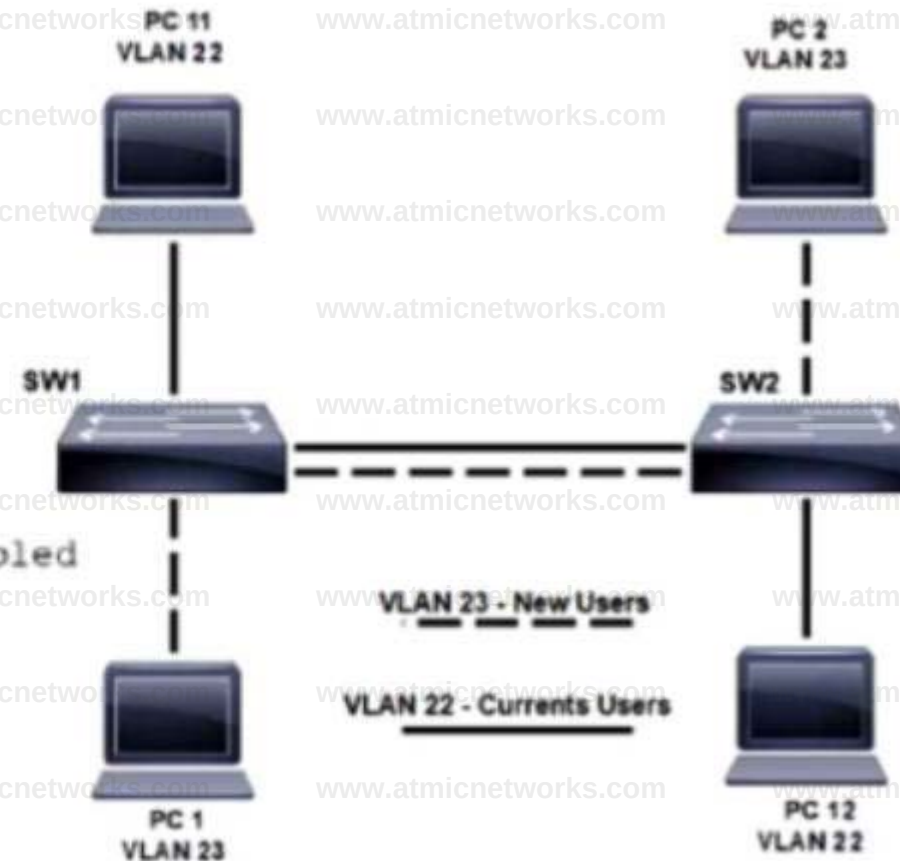
Explanation/Reference:

QUESTION 163

```

SW1#
Name: Et0/0
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk Native VLAN tagging: enabled
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk associations: none
Administrative private-vlan trunk mappings: none
Operational private-vlan: none
Trunking VLANs Enabled: 1,22
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

```



Refer to the exhibit. VLAN 23 is being implemented between SW1 and SW2. The command show interface ethernet0/0 switchport has been issued on SW1. Ethernet0/0 on SW1 is the uplink to SW2. Which command when entered on the uplink interface allows PC 1 and PC 2 to communicate without impact to the communication between PC 11 and PC 12?

- A. switchport trunk allowed vlan add 23
- B. switchport trunk allowed vlan 2-1001
- C. switchport trunk allowed vlan 23
- D. switchport trunk allowed vlan 22-23

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

What must a network administrator consider when deciding whether to configure a new wireless network with APs in autonomous mode or APs running in cloud-based mode?

- A. Cloud-based mode APs are easy to deploy but harder to automate than APs in autonomous mode.
- B. Cloud-based mode APs rely on underlays and are more complex to maintain than APs in autonomous mode.
- C. Autonomous mode APs are easy to deploy and automate than APs in cloud-based mode.
- D. Autonomous mode APs are less dependent on an underlay but more complex to maintain than APs in cloud-based mode.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 165

When the LAG configuration is updated on a Cisco WLC, which additional task must be performed when changes are complete?

- A. Reboot the WLC.
- B. Re-associate the WLC with the access point.
- C. Re-enable the WLC interfaces
- D. Flush all MAC addresses from the WLC.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 166

Output from R1

```
GigabitEthernet0/0/1 is up, line protocol is down
Hardware is SPA-10X1GE-V2, address is 0023.33ee.7c00 (bia 0023.33ee.7c00)
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
Half Duplex, 1000Mbps, link type is auto, media type is LX
output flow-control is off, input flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:01, output 00:02:31, output hang never

10 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 314 multicast, 0 pause input
1 packets output, 77 bytes, 0 underruns
0 output errors, 50 collisions, 6 interface resets
17 unknown protocol drops
0 babbles, 0 late collision, 0 deferred
```

Refer to the exhibit. What is the issue with the interface GigabitEthernet0/0/1?

- A. port security

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www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
B. high throughput						
C. duplex mismatch						
D. cable disconnect						
Correct Answer: C						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 167						
A project objective is to minimize the association time to the different access points as mobile devices move around the office. The ideal solution must cover numerous devices and device types, including laptops, mobile phones, tablets, and wireless printers. What must be configured?						
A. 802.11v BSS Max Idle Service						
B. 802.11ax BSS Configuration						
C. 802.11k Neighbor List Dual Band						
D. 802.11v Disassociation Imminent						
Correct Answer: A						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 168						
Which SNMP message type is reliable and precedes an acknowledgment response from the SNMP manager?						
A. Set						
B. Inform						
C. Traps						
D. Get						
Correct Answer: B						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 169						
What is the default port-security behavior on a trunk link?						
A. It places the port in the err-disabled state after 10 MAC addresses are statically configured.						
B. It causes a network loop when a violation occurs.						
C. It places the port in the err-disabled state if it learns more than one MAC address.						
D. It disables the native VLAN configuration as soon as port security is enabled.						
Correct Answer: C						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 170						
How are RFC 1918 IP addresses used in a network?						

- A. They are used instead of public addresses for increased security.
- B. They are used by internet service providers to route over the internet.
- C. They are used to access the internet from the internal network without conversion.
- D. They are used with NAT to preserve public IPv4 addresses.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

When more than one AP-Manager interface is provisioned on a wireless LAN controller, how is the request handled by the AP?

- A. The AP join request fails and must be configured statically on the AP-Manager interface.
- B. The discovery response from the AP to the AP-Manager interface disables the WLAN port.
- C. The AP-Manager with the fewest number of APs is used by the AP to join.
- D. The first AP-Manager interface to respond is chosen by the AP.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 172

Which plane is centralized in software-defined networking?

- A. application
- B. data
- C. control
- D. services

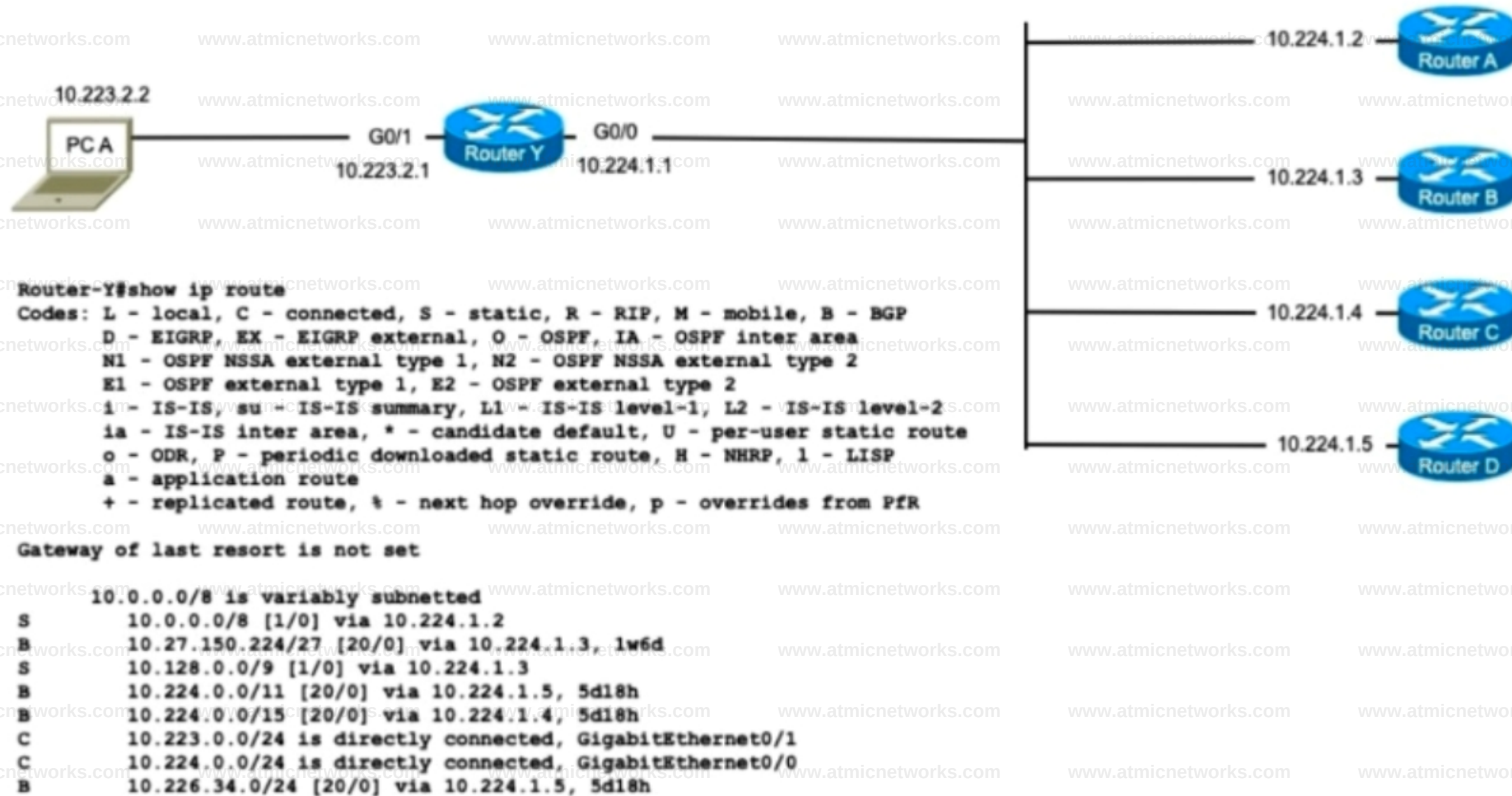
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 173



Refer to the exhibit. PC A is communicating with another device at IP address 10.225.34.225. Through which router will router Y route the traffic?

- A. router A
- B. router B
- C. router C
- D. router D

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

A network administrator is evaluating network security in the aftermath of an attempted ARP spoofing attack. If Port-channel1 is the uplink interface of the access-layer switch toward the distribution-layer switch, which two configurations must the administrator configure on the access-layer switch to provide adequate protection? (Choose two.)

- ### QUESTION 175

Switch A Configuration:

```
vlan 500
 name sales
!
vlan 550
 name support
!
interface GigabitEthernet0/0
 switchport mode trunk
!
interface GigabitEthernet0/1
 switchport mode access
 spanning-tree portfast
 spanning-tree bpduguard enable
```



Switch B Configuration:

```
vlan 500
 name sales
!
vlan 550
 name support
!
interface GigabitEthernet0/0
 switchport mode trunk
!
interface GigabitEthernet0/1
 switchport mode access
 spanning-tree portfast
 spanning-tree bpduguard enable
```



Refer to the exhibit. Two new switches are being installed. The remote monitoring team uses the support network to monitor both switches. Which configuration is the next step to establish a Layer 2 connection between the two PCs?

- A. SwitchA(config)#interface GigabitEthernet0/0
SwitchA(config-if)#spanning-tree portfast
SwitchA(config-if)#spanning-tree bpduguard enable

SwitchB(config)#interface GigabitEthernet0/0
SwitchB(config-if)#spanning-tree portfast
SwitchB(config-if)#spanning-tree bpduguard enable
- B. SwitchA(config)#interface GigabitEthernet0/0
SwitchA(config-if)#switchport trunk allowed vlan 500, 550

SwitchB(config)#interface GigabitEthernet0/0
SwitchB(config-if)#switchport trunk allowed vlan 500, 550
- C. SwitchA(config)#interface GigabitEthernet0/1
SwitchA(config-if)#switchport mode trunk

SwitchB(config)#interface GigabitEthernet0/1
SwitchB(config-if)#switchport mode trunk


```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  :
Description . . . . . : Intel(R) Dual Band Wireless-AC 7265
Physical Address. . . . . : C8-21-58-B4-D3-E0
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . : Yes
Link-local IPv6 Address . . . . : fe80::45a1:b3fa:2f37:bf37%2 (Preferred)
IPv4 Address. . . . . : 192.168.25.103(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : June 11, 2019 10:21:31 AM
Lease Expires . . . . . : June 12, 2019 10:21:36 AM
Default Gateway . . . . . : 192.168.25.1
DHCP Server . . . . . : 192.168.25.100
DHCPv6 IAID . . . . . : 46670168
DHCPv6 Client DUID. . . . . : 00-01-00-01-20-FF-05-55-3C-52-82-33-D3-84
DNS Servers . . . . . : 192.168.25.254
                        192.168.25.254
```

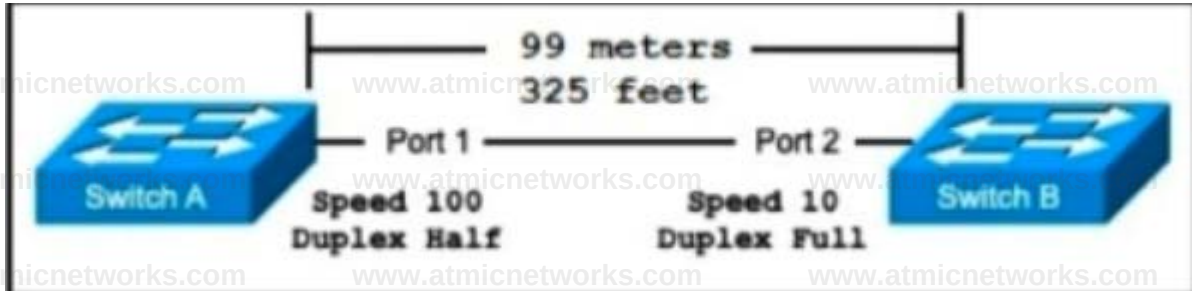
Refer to the exhibit. Which address will the client contact to renew their IP address when the current lease expires?

- A. 192.168.25.254
- B. 192.168.25.1
- C. 192.168.25.100
- D. 192.168.25.103

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

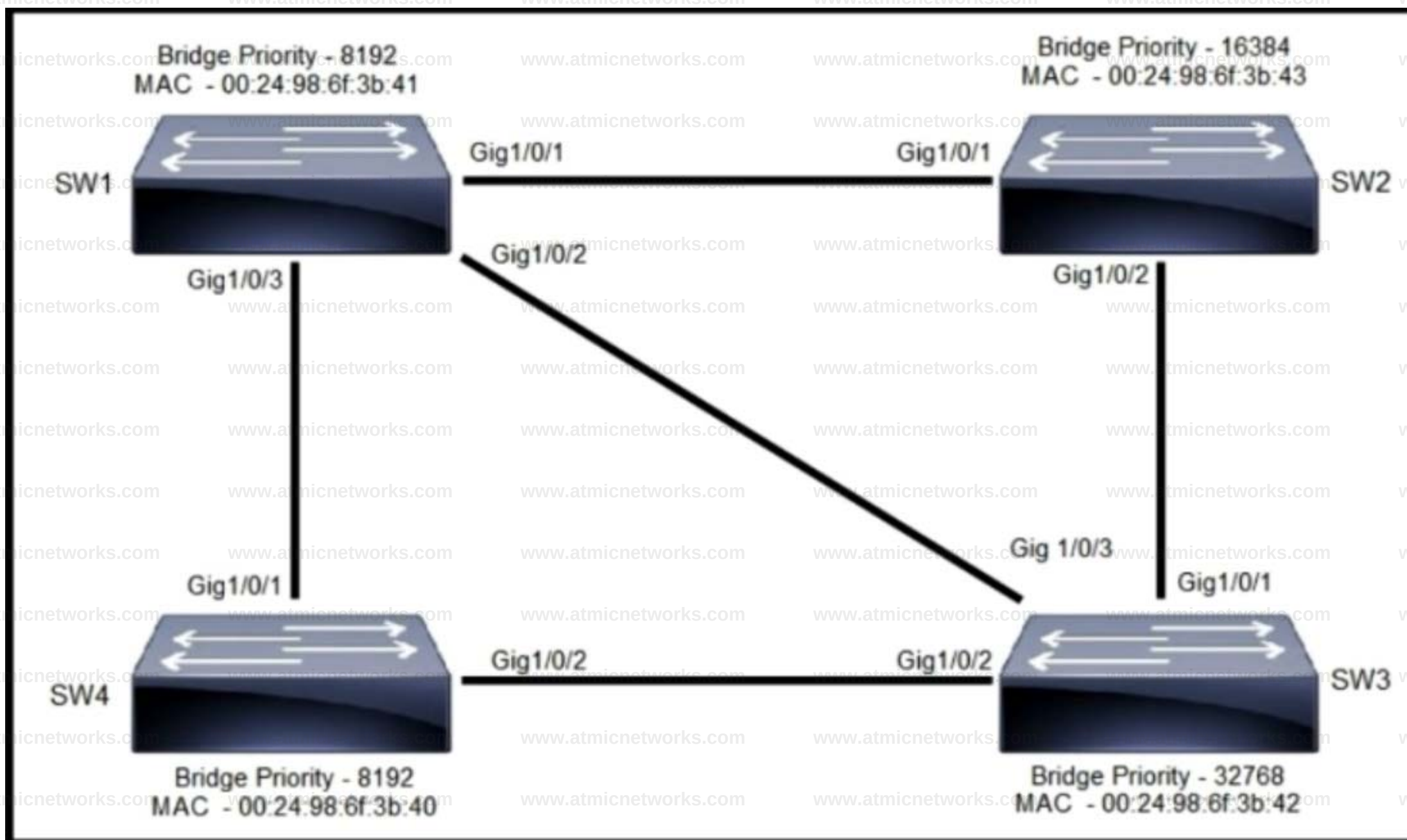
QUESTION 179



Refer to the exhibit. The switches are connected via a Cat5 Ethernet cable that was successfully tested. The interfaces are configured as access ports and are both in a "down" status. What is the cause of this issue?

- A. The portfast command is missing from the configuration.
- B. The distance between the two switches is not supported by Cat5.
- C. The speed settings on the switches are mismatched.
- D. The switches are configured with incompatible duplex settings.

Correct Answer: C
Section: (none)
Explanation



Refer to the exhibit. Rapid PVST+ mode is on the same VLAN on each switch. Which switch becomes the root bridge and why?

- A. SW1, because its priority is the lowest and its MAC address is higher
- B. SW3, because its priority is the highest
- C. SW2, because its MAC address is the highest
- D. SW4, because its priority is highest and its MAC address is lower

Correct Answer: D

Section: (none)

Explanation

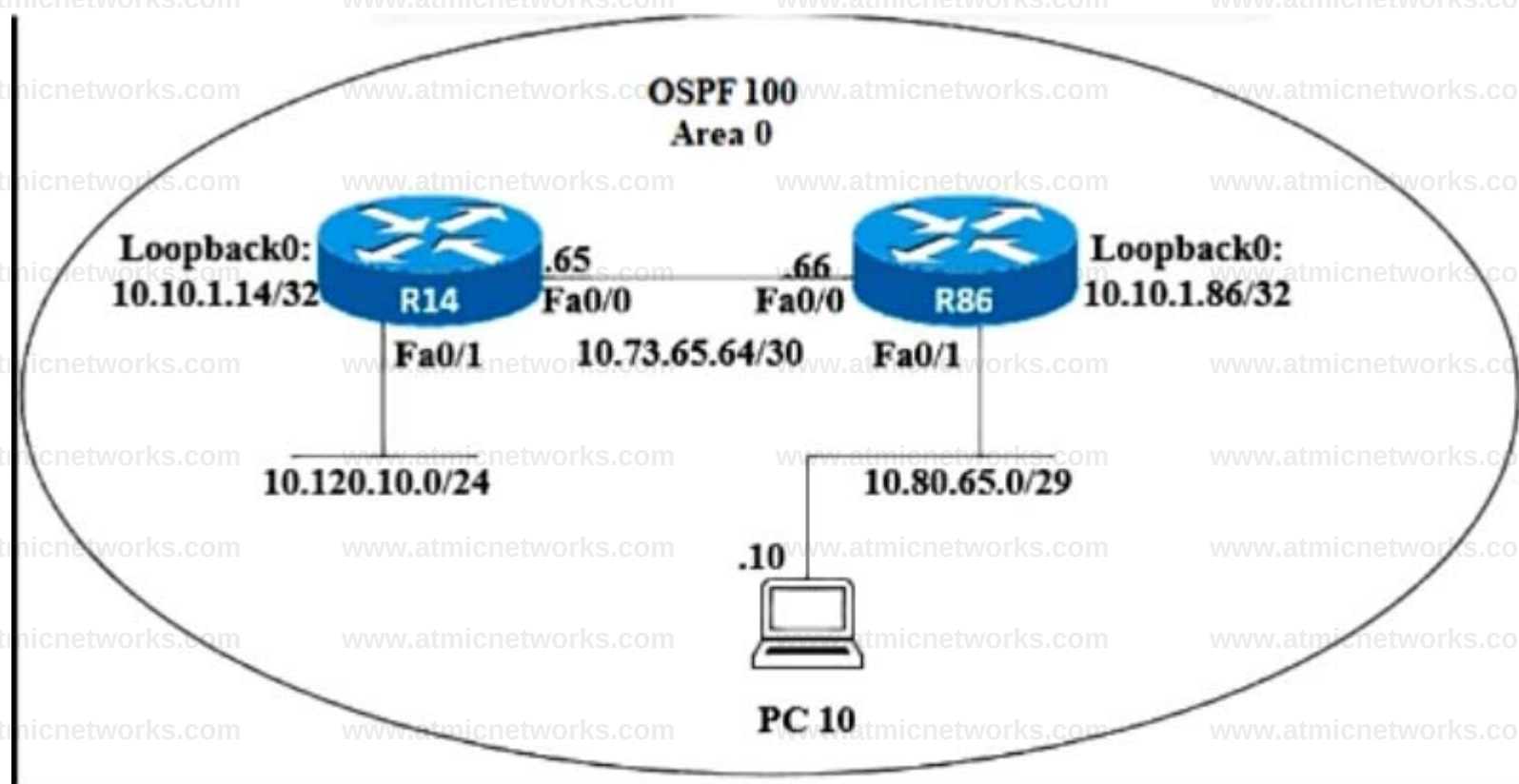
Explanation/Reference:

QUESTION 183

Which IPsec encryption mode is appropriate when the destination of a packet differs from the security termination point?

- A. transport

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www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
B. aggressive						
C. tunnel						
D. main						
Correct Answer: C						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 184						
Why is UDP more suitable than TCP for applications that require low latency, such as VoIP?						
A. TCP uses congestion control for efficient packet delivery, and UDP uses flow control mechanisms for the delivery of packets.						
B. UDP reliably guarantees delivery of all packets, and TCP drops packets under heavy load.						
C. UDP uses sequencing data for packets to arrive in order, and TCP offers the capability to receive packets in random order.						
D. TCP sends an acknowledgment for every packet that is received, and UDP operates without acknowledgments						
Correct Answer: B						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 185						
What is a function of store-and-forward switching?						
A. It buffers frames and forwards regardless of errors within the frames.						
B. It produces an effective level of error-free network traffic using CRCs.						
C. It reduces latency by eliminating error checking within the frame.						
D. It forwards a frame by checking only the destination MAC address.						
Correct Answer: B						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 186						
Which type of hypervisor operates without an underlying OS to host virtual machines?						
A. Type 1						
B. Type 2						
C. Type 3						
D. Type 12						
Correct Answer: A						
Section: (none)						
Explanation						
Explanation/Reference:						
QUESTION 187						
Why would a network administrator choose to implement automation in a network environment?						



An engineer just installed network 10.120.10.0/24. Which configuration must be applied to the R14 router to add the new network to its OSPF routing table?

- A. router ospf 100
network 10.120.10.0 255.255.255.0 area 0
- B. router ospf 120
network 10.120.10.0 255.255.255.0 area 0
ip route 10.120.10.0 255.255.255.0 fa0/1
- C. router ospf 100
network 10.120.10.0 0.0.0.255 area 0
- D. router ospf 100 area 0
network 10.120.10.0 0.0.0.255

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 192

What is a function of a northbound API in an SDN environment?

- A. It supports distributed processing for configuration.
- B. It provides orchestration and network automation services.
- C. It upgrades software and restores files.
- D. It relies on global provisioning and configuration.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

What are two behaviors of a point-to-point WAN topology? (Choose two.)

- A. It uses a single router to route traffic between sites.
- B. It delivers redundancy between the central office and branch offices.
- C. It connects remote networks through a single line.
- D. It provides direct connections between each router in the topology.
- E. It leverages a dedicated connection.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 194

```
GigabitEthernet1 is up, line protocol is up
Hardware is CSR vNIC, address is 5000.0004.0000 (bia 5000.0004.0000)
Internet address is 192.168.1.1/24
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 set (10 sec)
Full Duplex, 1000Mbps, link type is auto, media type is RJ45
```

Refer to the exhibit. Which format matches the Modified EUI-64 IPv6 interface address for the network 2001:db8::/64?

- A. 2001:db8::5000:00ff:fe04:0000/
- B. 642001:db8::5000:0004:5678:0090/64
- C. 2001:db8::5200:00ff:fe04:0000/64
- D. 2001:db8:XXXX:XXXX:XXff:fe05:/64

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 195

```

R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S   172.16.3.0/24 [1/0] via 209.165.200.250, Serial0/0/0
O   172.16.3.0/28 [110/1] via 209.165.200.254, 00:00:28, Serial0/0/1
    209.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C   209.165.200.244/30 is directly connected, Serial0/1/0
L   209.165.200.245/32 is directly connected, Serial0/1/0
C   209.165.200.248/30 is directly connected, Serial0/0/0
L   209.165.200.249/32 is directly connected, Serial0/0/0
C   209.165.200.252/30 is directly connected, Serial0/0/1
L   209.165.200.253/32 is directly connected, Serial0/0/1

```

Refer to the exhibit. A packet is being sent across router R1 to host 172.16.0.14. What is the destination route for the packet?

- A. 209.165.200.246 via Serial0/1/0
- B. 209.165.200.250 via Serial0/0/0
- C. 209.165.200.254 via Serial0/0/0
- D. 209.165.200.254 via Serial0/0/1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 196

What are two disadvantages of a full-mesh topology? (Choose two.)

- A. It has a high implementation cost.
- B. It needs a high MTU between sites.
- C. It must have point-to-point communication
- D. It works only with BGP between sites
- E. It requires complex configuration.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 197

What is a function of a Next-Generation IPS?

- A. It integrates with a RADIUS server to enforce Layer 2 device authentication rules.
- B. It serves as a controller within a controller-based network.
- C. It makes forwarding decisions based on learned MAC addresses.
- D. It analyzes and mitigates observed vulnerabilities in a network.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 198

What is the advantage of separating the control plane from the data plane within an SDN network?

- A. offloads the creation of virtual machines to the data plane
- B. decreases overall network complexity
- C. reduces cost
- D. limits data queries to the control plane

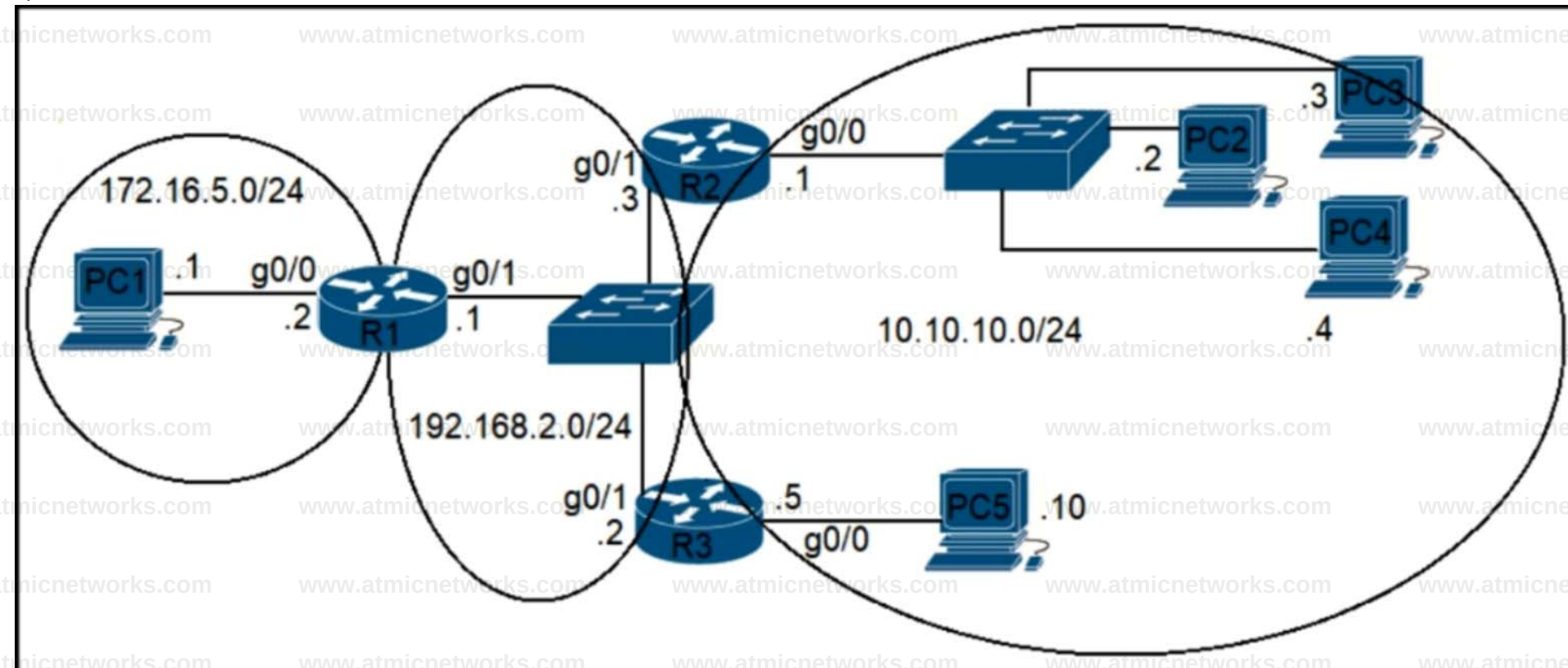
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199



Refer to the exhibit. The router R1 is in the process of being configured. Routers R2 and R3 are configured correctly for the new environment. Which two commands must be configured on R1 for PC1 to communicate to all PCs on the 10.10.10.0/24 network?

- A. ip route 10.10.10.0 255.255.255.0 192.168.2.3
ip route 10.10.10.8 255.255.255.252 g0/0

- B. ip route 10.10.10.0 255.255.255.0 192.168.2.3
ip route 10.10.10.10 255.255.255.255 192.168.2.2
- C. ip route 10.10.10.0 255.255.255.248 192.168.2.2
ip route 10.10.2.8 255.255.255.252 g0/1
- D. ip route 10.10.10.0 255.255.255.0 192.168.2.2
ip route 10.10.2.2 255.255.255.255 10.10.10.10

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 200

Which is a fact related to FTP?

- A. It uses block numbers to identify and mitigate data-transfer errors.
- B. It always operates without user authentication.
- C. It uses two separate connections for control and data traffic.
- D. It relies on the well-known UDP port 69.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

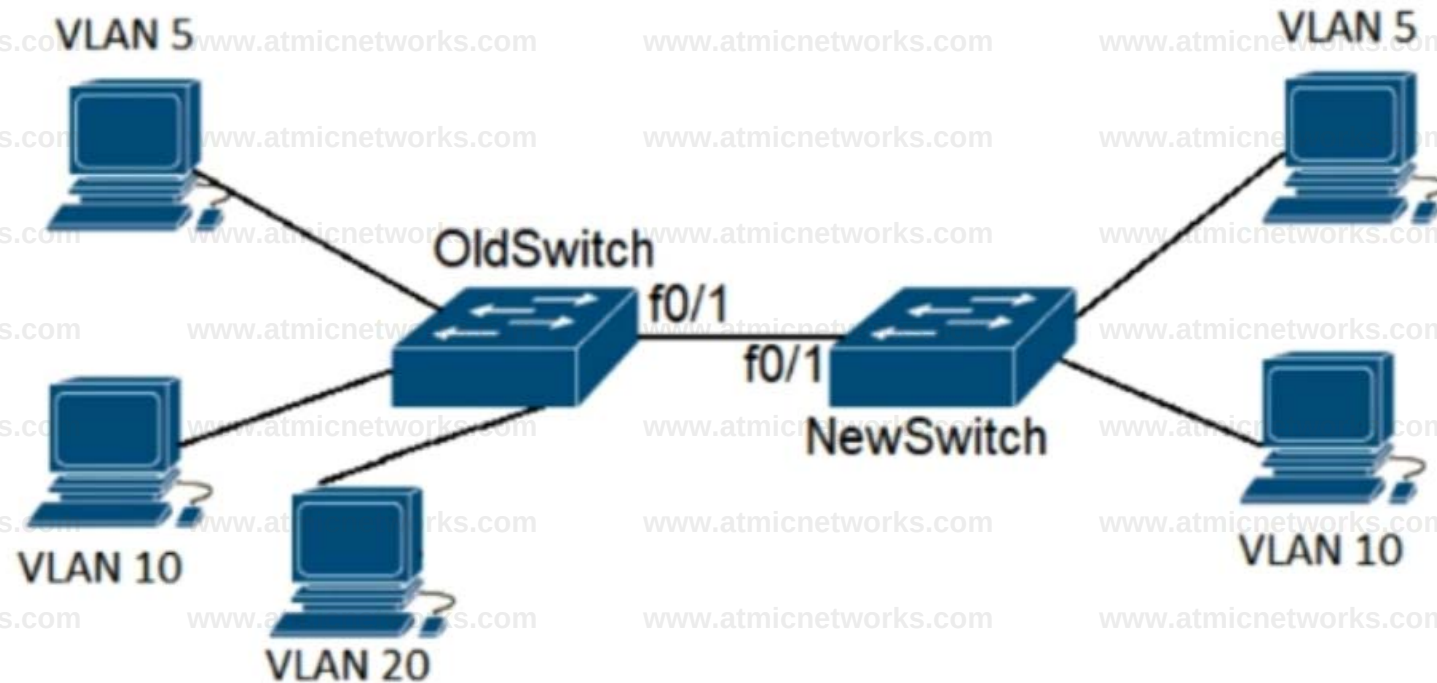
QUESTION 201

```
R1#sho ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       + - replicated route, % - next hop override

Gateway of last resort is 10.56.0.1 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 10.56.0.1
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C      10.56.0.0/17 is directly connected, Vlan56
L      10.56.0.19/32 is directly connected, Vlan56
C      10.56.128.0/18 is directly connected, Vlan57
L      10.56.128.19/32 is directly connected, Vlan57
```

Refer to the exhibit. When router R1 is sending traffic to IP address 10.56.192.1, which interface or next hop address does it use to route the packet?



```

OldSwitch(config)#interface fastEthernet 0/1
OldSwitch(config-if)#switchport mode trunk
OldSwitch(config-if)#switchport trunk allowed vlan 5,10
OldSwitch(config-if)#switchport trunk native vlan 15
**output suppressed**

NewSwitch(config)#interface fastEthernet 0/1
NewSwitch(config-if)#switchport mode trunk
NewSwitch(config-if)#switchport trunk encapsulation isl
NewSwitch(config-if)#switchport trunk allowed vlan 5,10
NewSwitch(config-if)#switchport trunk native vlan 15

```

Refer to the exhibit. A new VLAN and switch are added to the network. A remote engineer configures OldSwitch and must ensure that the configuration meets these requirements:

- accommodates current configured VLANs
- expands the range to include VLAN 20
- allows for IEEE standard support for virtual LANs

Which configuration on the NewSwitch side of the link meets these requirements?

- A. switchport nonegotiate
no switchport trunk allowed vlan 5,10
switchport trunk allowed vlan 5,10,15,20
- B. no switchport trunk encapsulation isl
switchport trunk encapsulation dot1q
switchport trunk allowed vlan add 20
- C. switchport mode dynamic
channel-group 1 mode active
switchport trunk allowed vlan 5,10,15, 20

- D. no switchport mode trunk
switchport trunk encapsulation isl
switchport mode access vlan 20

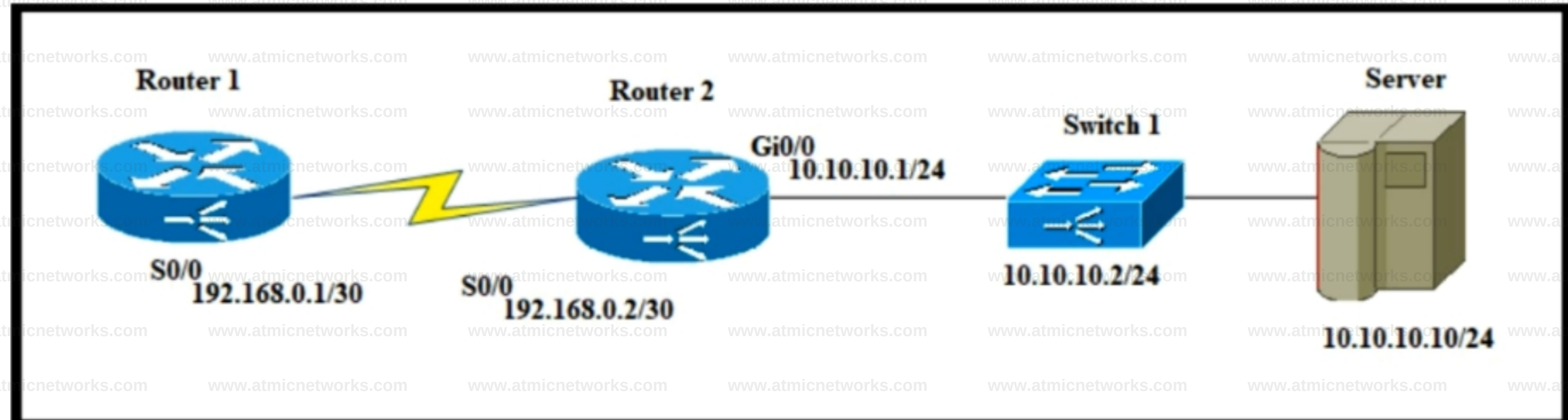
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 207



Refer to the exhibit. A network engineer must configure router R1 with a host route to the server. Which command must the engineer configure?

- A. R1(config)#ip route 192.168.0.2 255.255.255.255 10.10.10.10
B. R1(config)#ip route 0.0.0.0 0.0.0.0 192.168.0.2
C. R1(config)#ip route 10.10.10.0 255.255.255.0 192.168.0.2
D. R1(config)#ip route 10.10.10.10 255.255.255.255 192.168.0.2

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

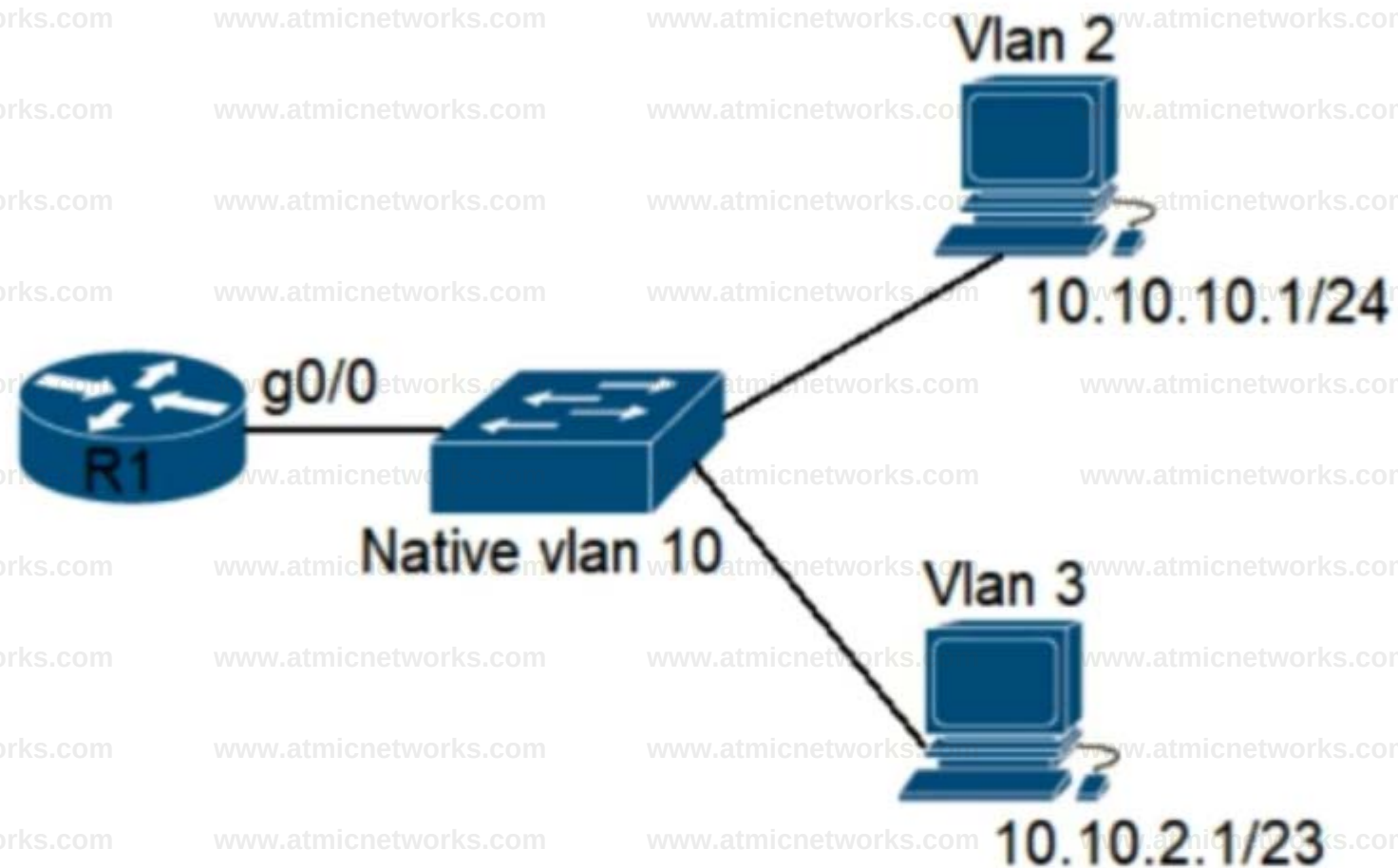
QUESTION 208

Which security protocol is appropriate for a WPA3 implementation?

- A. AES
B. TKIP
C. CCMP
D. GCMP

Correct Answer: A

Section: (none)



```
R1#show run
Building configuration...
!
interface GigabitEthernet0/0.2
 encapsulation dot1Q 2
 ip address 10.10.10.10 255.255.255.0
!
end
```

Refer to the exhibit. Configurations for the switch and PCs are complete. Which configuration must be applied so that VLANs 2 and 3 communicate back and forth?

- A. interface GigabitEthernet0/0.10
 encapsulation dot1Q3
 ip address 10.10.2.10 255.255.254
- B. interface GigabitEthernet0/0

www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
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ip address 10.10.2.10 255.255.252.0						
C. interface GigabitEthernet0/0.3						
www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
encapsulation dot1Q 3 native						
ip address 10.10.2.10 255.255.252.0						
D. interface GigabitEthernet0/0.3						
www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com	www.atmicnetworks.com
encapsulation dot1Q 10						
ip address 10.10.2.10 255.255.255.252						

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 211

How do UTP and STP cables compare?

- A. STP cables are cheaper to procure and easier to install and UTP cables are more expensive and harder to install.
- B. UTP cables provide faster and more reliable data transfer rates and STP cables are slower and less reliable.
- C. UTP cables are less prone to crosstalk and interference and STP cables are more prone to crosstalk and interference.
- D. STP cables are shielded and protect against electromagnetic interference and UTP lacks the same protection against electromagnetic interference.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 212

Which technology prevents client devices from arbitrarily connecting to the network without state remediation?

- A. 802.11n
- B. 802.1x
- C. MAC Authentication Bypass
- D. IP Source Guard

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 213

Connection-specific DNS Suffix . :

Description : Intel(R) Ethernet Connection (2) I218-V
Physical Address. : D0-50-99-47-A9-7F
DHCP Enabled. : Yes
Autoconfiguration Enabled : Yes
Link-local IPv6 Address : fe80::8809:9772:c583:6b18%15 (Preferred)
IPv4 Address. : 192.168.69.132 (Preferred)
Subnet Mask : 255.255.255.0
Lease Obtained. : Thursday, January 21, 2021 11:10:46 PM
Lease Expires : Wednesday, February 3, 2021 11:27:29 AM
Default Gateway : 192.168.69.1
DHCP Server : 192.168.69.1
DHCPv6 IAID : 231755929
DHCPv6 Client DUID. : 00-01-00-01-26-D7-BB-3F-D0-50-99-47-A9-7F
DNS Servers : 192.168.69.1
NetBIOS over Tcpip. : Enabled

Refer to the exhibit. What does the host do when using the IPv4 Preferred function?

- A. It continues to use a statically assigned IPv4 address.
- B. It prefers a pool of addresses when renewing the IPv4 host IP address.
- C. It requests the same IPv4 address when it renews its lease with the DNS server.
- D. It forces the DNS server to provide the same IPv4 address at each renewal.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 214

Under the CRUD model, which two HTTP methods support the UPDATE operation? (Choose two.)

- A. GET
- B. PATCH
- C. POST
- D. DELETE
- E. PUT

[illegible]

QUESTION 218

```
Cat9300# show cdp
Global CDP information:
  Sending CDP packets every 60 seconds
  Sending a holdtime value of 180 seconds
  Sending CDPv2 advertisements is enabled
```

Refer to the exhibit. Which action must be taken so that neighboring devices rapidly discover switch Cat9300?

- A. Configure the cdp timer 10 command on the neighbors of switch Cat9300.
- B. Configure the cdp timer 10 command on switch Cat9300.
- C. Enable portfast on the ports that connect to neighboring devices.
- D. Configure the cdp holdtime 10 command on switch Cat9300.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

```

CPE# show run | include ip route
ip route 0.0.0.0 0.0.0.0 203.0.113.1 21

CPE# show ip route 203.0.113.1
Routing entry for 203.0.113.0/30
  Known via "connected", distance 0, metric 0 (connected, via interface)
  Routing Descriptor Blocks:
    * directly connected, via Ethernet0/1
      Route metric is 0, traffic share count is 1

CPE# ping 203.0.113.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 203.0.113.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/1 ms

CPE# show ip route
Gateway of last resort is 198.51.100.1 to network 0.0.0.0
B*    0.0.0.0/0 [20/0] via 198.51.100.1, 00:02:07
      198.51.100.0/24 is variably subnetted, 2 subnets, 2 masks
C      198.51.100.0/30 is directly connected, Ethernet0/0
L      198.51.100.2/32 is directly connected, Ethernet0/0
      203.0.113.0/24 is variably subnetted, 2 subnets, 2 masks
C      203.0.113.0/30 is directly connected, Ethernet0/1
L      203.0.113.2/32 is directly connected, Ethernet0/1

```

Refer to the exhibit. After configuring a new static route on the CPE, the engineer entered this series of commands to verify that the new configuration is operating normally. When is the static default route installed into the routing table?

- A. when the default route learned over external BGP changes its next hop
- B. when 203.0.113.1 is no longer reachable as a next hop
- C. when a route to 203.0.113.1 is learned via BGP
- D. when the default route learned over external BGP becomes invalid

Correct Answer: D

Section: (none)

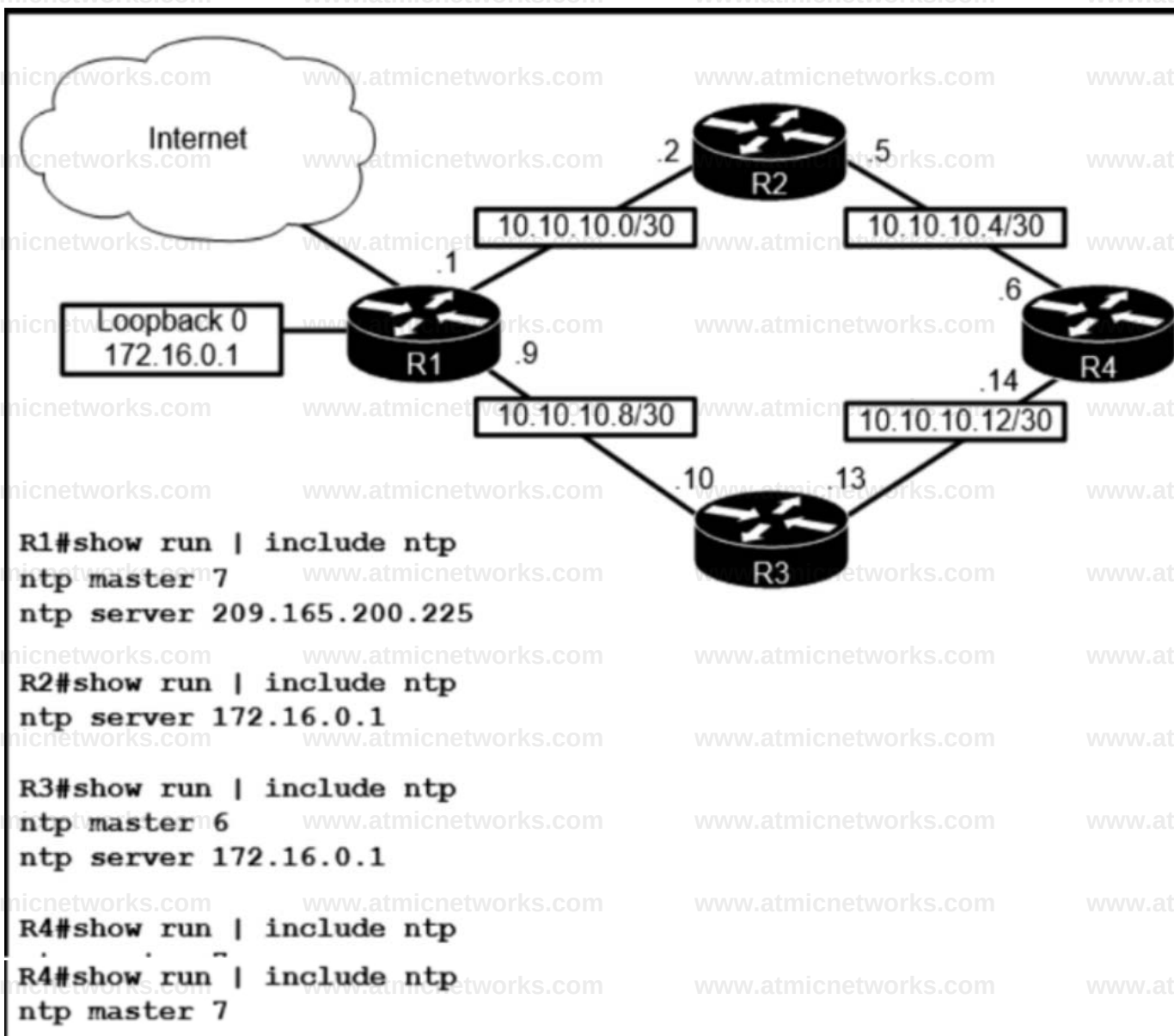
Explanation

Explanation/Reference:

QUESTION 220

Why would VRRP be implemented when configuring a new subnet in a multivendor environment?

- A. to interoperate normally with all vendors and provide additional security features for Cisco devices
- B. to ensure that the spanning-tree forwarding path to the gateway is loop-free
- C. when a gateway protocol is required that supports more than two Cisco devices for redundancy



Refer to the exhibit. Which router or router group are NTP clients?

- A. R1, R3, and R4
- B. R1, R2, and R3
- C. R1
- D. R2 and R3

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

A technician receives a report of network slowness and the issue has been isolated to the interface FastEthernet0/13. What is the root cause of the issue?

FastEthernet0/13 is up, line protocol is up
Hardware is Fast Ethernet, address is 0001.4d27.66cd (bia 0001.4d27.66cd)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 250/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not set
Auto-duplex (Full), Auto Speed (100), 100BaseTX/FX
ARP type: ARPA, ARP Timeout 04:00:00
Last input 18:52:43, output 00:00:01, output hang never
Last clearing of "show interface" counters never
Queueing strategy: fifo
Output queue 0/40, 0 drops; input queue 0/75, 0 drops
5 minute input rate 12000 bits/sec, 6 packets/sec
5 minute output rate 24000 bits/sec, 6 packets/sec
14488019 packets input, 2437442474 bytes
Received 345346 broadcasts, 0 runts, 0 giants, 0 throttles
261028 input errors, 259429 CRC, 1599 frame, 0 overrun, 0 ignored
0 watchdog, 84207 multicast
0 input packets with dribble condition detected
19658279 packets output, 3529106068 bytes, 0 underruns
0 output errors, 0 collisions, 1 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

- A. physical errors
- B. err-disabled port on the far end
- C. duplicate IP addressing
- D. local buffer overload

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 225

Which switching feature removes unused MAC addresses from the MAC address table, which allows new MAC addresses to be added?

- A. MAC address auto purge
- B. MAC move

- C. MAC address aging
- D. dynamic MAC address learning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 226

The screenshot shows the Cisco WLC configuration interface for a new RADIUS Authentication Server. The left sidebar contains a navigation menu with the following items: Security, AAA, General, RADIUS (selected), Authentication, Accounting, Fallback, DNS, Downloaded AVP, TACACS+, LDAP, Local Net Users, MAC Filtering, Disabled Clients, User Login Policies, AP Policies, Password Policies, Local EAP, Advanced EAP, Priority Order, Certificate, Access Control Lists, Wireless Protection, and Policies. The main configuration area is titled 'RADIUS Authentication Servers > New' and contains the following fields and options:

Field/Option	Value
Server Index (Priority)	1
Server IP Address(Ipv4/Ipv6)	192.168.25.2
Shared Secret Format	ASCII
Shared Secret	*****
Confirm Shared Secret	*****
Key Wrap	☐ (Designed for FIPS customers and requires a key wrap compliant RADIUS server)
Port Number	1812
Server Status	Enabled
Support for CoA	Disabled
Server Timeout	2 seconds
Network User	☐ Enable
Management	☐ Enable
Management Retransmit Timeout	2 seconds
Tunnel Proxy	☐ Enable
IPSec	☐ Enable

Refer to the exhibit. A network engineer configures the Cisco WLC to authenticate local wireless clients against a RADIUS server. Which action completes this configuration?

- A. Disable the Server Status option
- B. Enable the Support for CoA option.

- C. Enable the Network User option.
- D. Enable the Management option.

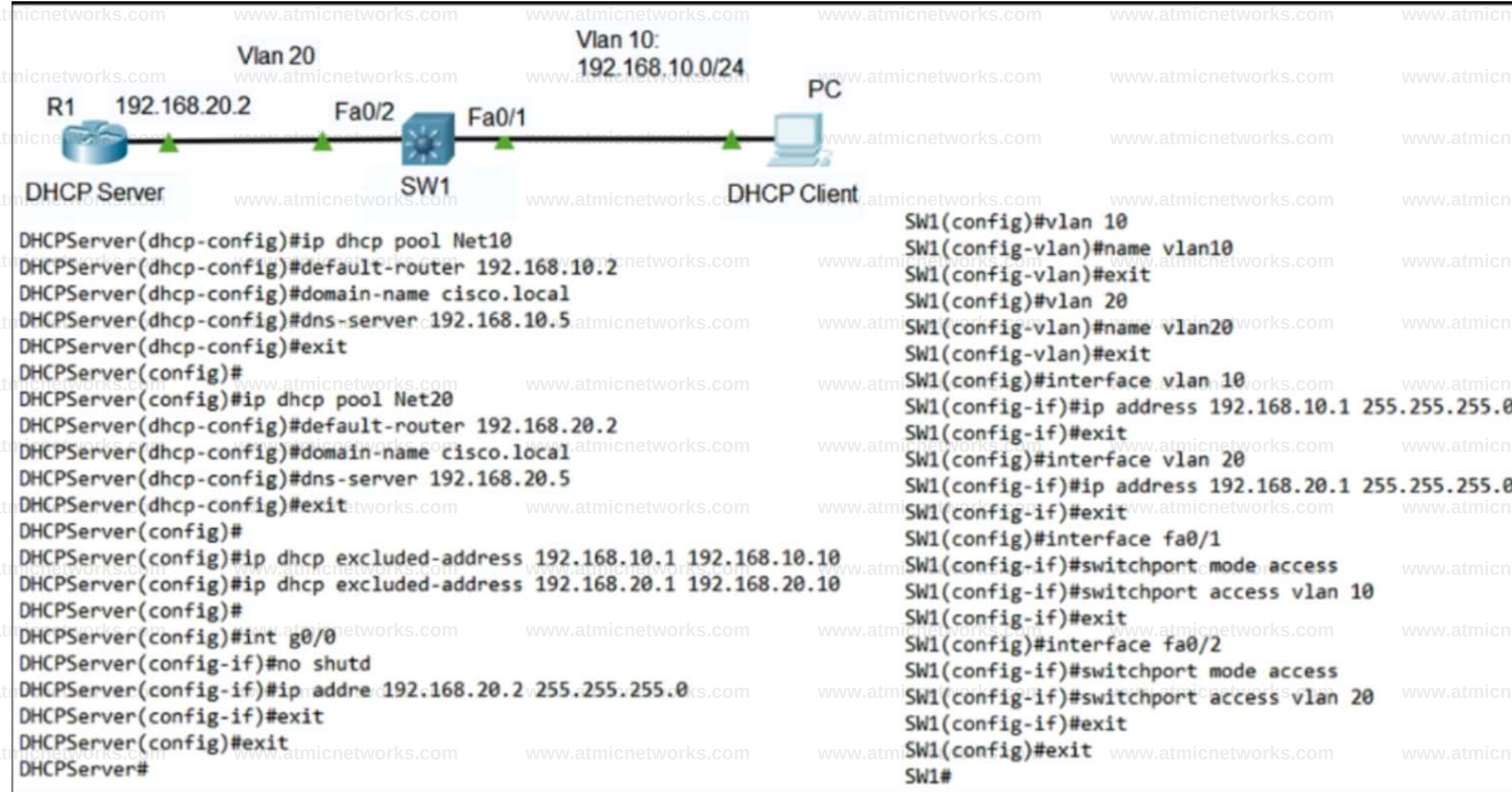
Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227



Refer to the exhibit. The DHCP server is configured with a DHCP pool for each of the subnets represented. Which command must be configured on switch SW1 to allow DHCP clients on VLAN 10 to receive dynamic IP addresses from the DHCP server?

- A. SW1(config-if)#ip helper-address 192.168.10.2
- B. SW1(config-if)#ip helper-address 192.168.20.1
- C. SW1(config-if)#ip helper-address 192.168.10.1
- D. SW1(config-if)#ip helper-address 192.168.20.2

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

What are two facts that differentiate optical-fiber cabling from copper cabling? (Choose two.)

- A. It provides greater throughput options.
- B. It is less expensive when purchasing patch cables.
- C. It carries electrical current further distances for PoE devices
- D. It carries signals for longer distances.
- E. It has a greater sensitivity to changes in temperature and moisture.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 229

What is a function of a southbound API?

- A. Facilitate the information exchange between an SDN controller and application.
- B. Automate configuration changes between a server and a switching fabric.
- C. Manage flow control between an SDN controller and a switching fabric.
- D. Use orchestration to provision a virtual server configuration from a web server.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

```
R_1# show ip route
....
D   192.168.20.0/26 [90/24513456] via 10.10.10.1
R   192.168.20.0/24 [120/5] via 10.10.10.2
O   192.168.0.0/19 [110/219414] via 10.10.10.13
B   192.168.0.0/16 is variably subnetted, 4 subnets, 4 masks
D   192.168.20.0/27 [90/4123710] via 10.10.10.12
D   192.168.20.0/25 [90/14464211] via 10.10.10.11
S.   0.0.0.0/0 [1/0] via 10.10.10.14
```

Refer to the exhibit. Packets are flowing from 192.168.10.1 to the destination at IP address 192.168.20.75. Which next hop will the router select for the packet?

General	Security	QoS	Policy-Mapping	Advanced
Off Channel Scanning Defer				
Scan Defer Priority		0 1 2 3 4 5 6 7		
		☐ ☐ ☐ ☐ ☒ ☒ ☒ ☐		
Scan Defer Time(msecs)		100		
FlexConnect				
FlexConnect Local Switching		☐ Enabled		
FlexConnect Local Auth		☐ Enabled		
Learn Client IP Address		☒ Enabled		
Vlan based Central Switching		☐ Enabled		
Central DHCP Processing		☐ Enabled		
Override DNS		☐ Enabled		
NAT-PAT		☐ Enabled		
Central Assoc		☐ Enabled		
Lync				
Lync Server		Disabled		
HTTP Profiling				
		☐		
Local Client Profiling				
DHCP Profiling		☐		
HTTP Profiling		☐		
PMIP				
PMIP Mobility Type		☐		
PMIP NAI Type		Hexadecimal		
PMIP Profile		None		
PMIP Realm				
Universal AP Admin Support				
Universal AP Admin		☐		
11v BSS Transition Support				
BSS Transition		☒		
Disassociation Imminent		☐		
Disassociation Timer(0 to 3000 TBTT)		200		
Optimized Roaming Disassociation Timer(0 to 40 TBTT)		40		

Refer to the exhibit. An architect is managing a wireless network with APs from several branch offices connecting to the WLC in the data center. There is a new requirement for a single WLAN to process the client data traffic without sending it to the WLC. Which action must be taken to complete the request?

- A. Enable local HTTP profiling.
- B. Enable FlexConnect Local Switching.
- C. Enable Disassociation Imminent.
- D. Enable local DHCP Profiling.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 233

What are two reasons to implement IPv4 private addressing on a network? (Choose two.)

- A. to expand the routing table on the router
- B. to enable internal applications to treat the private IPv4 addresses as unique
- C. to provide protection from external denial-of-service attacks
- D. to facilitate renumbering when merging networks
- E. to conserve global unique IPv4 addresses

Correct Answer: CE

- A. Both cable types support LR connectors.
- B. Both cable types support RJ-45 connectors.
- C. Both support up to 550 meters between nodes.
- D. Both use the same data-link header and trailer formats.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 238

Which function forwards frames to ports that have a matching destination MAC address?

- A. frame flooding
- B. frame switching
- C. frame pushing
- D. frame filtering

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 239

A network engineer is replacing the switches that belong to a managed-services client with new Cisco Catalyst switches. The new switches will be configured for updated security standards, including replacing Telnet services with encrypted connections and doubling the modulus size from 1024. Which two commands must the engineer configure on the new switches? (Choose two.)

- A. transport input ssh
- B. transport input all
- C. crypto key generate rsa usage-keys
- D. crypto key generate rsa modulus 2048
- E. crypto key generate rsa general-keys modulus 1024

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 240



Refer to the exhibit. A network engineer must configure the link with these requirements:
Consume as few IP addresses as possible.
Leave at least two additional useable IP addresses for future growth.

Which set of configurations must be applied?

- A. R1(config-if)#ip address 10.10.10.1 255.255.255.240
R2(config-if)#ip address 10.10.10.12 255.255.255.240
- B. R1(config-if)#ip address 10.10.10.1 255.255.255.0
R2(config-if)#ip address 10.10.10.5 255.255.255.0

- C. R1(config-if)#ip address 10.10.10.1 255.255.255.248
R2(config-if)#ip address 10.10.10.4 255.255.255.248
- D. R1(config-if)#ip address 10.10.10.1 255.255.255.252
R2(config-if)#ip address 10.10.10.2 255.255.255.252

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 241

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
is directly connected, Serial0/1/0
172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S 172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O 172.16.0.128/25 [110/32445] via 207.165.200.254, 00:00:23, Serial0/0/1
D 172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
207.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C 207.165.200.248/30 is directly connected, Serial0/0/0
L 207.165.200.249/32 is directly connected, Serial0/0/0
C 207.165.200.252/30 is directly connected, Serial0/0/1
L 207.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. With which metric does router R1 learn the route to host 172.16.0.202?

- A. 90
B. 110
C. 32445
D. 3184439

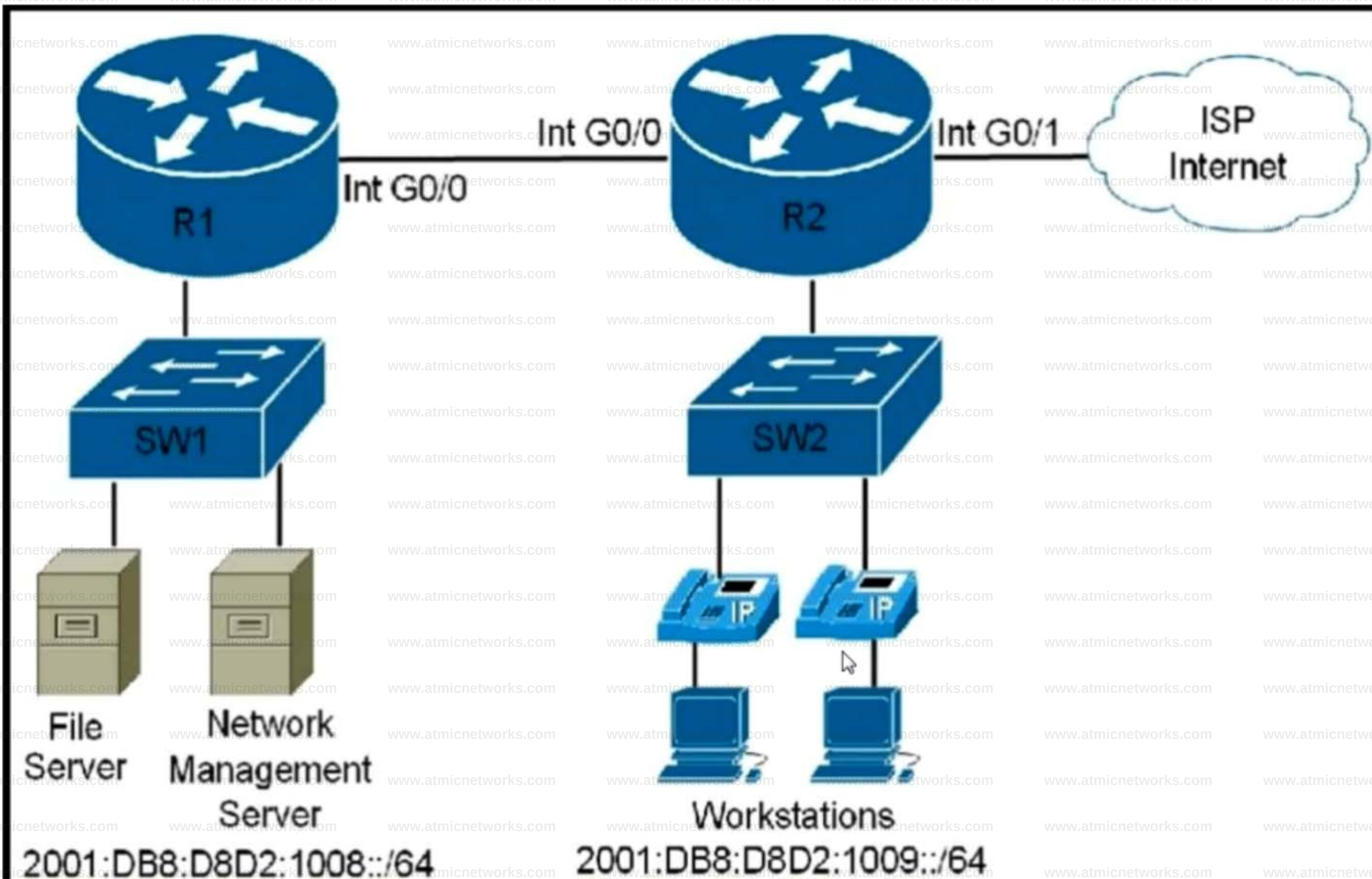
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 242



Refer to the exhibit. A public IPv6 address must be configured for internet access. Which command must be configured on the R2 WAN interface to the service provider?

A. ipv6 address 2001:db8:437:33:7670::ffff:ffff/64 anycast

B. ipv6 address fe80::/10

C. ipv6 address fe80::260:3EFF:FE11:6770 link-local

D. ipv6 address 2001:db8:123:45::4/64

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 243

What is a function of Layer 3 switches?

A. They route traffic between devices in different VLANs.

B. They move frames between endpoints limited to IP addresses.

C. They transmit broadcast traffic when operating in Layer 3 mode exclusively.

D. They forward Ethernet frames between VLANs using only MAC addresse

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 244

A network administrator plans an update to the Wi-Fi networks in multiple branch offices. Each location is configured with an SSID called "Office". The administrator wants every user who connects to the SSID at any location to have the same access level. What must be set the same on each network to meet the requirement?

A. NAS-ID configuration

B. security policies

C. radio policy

D. profile name

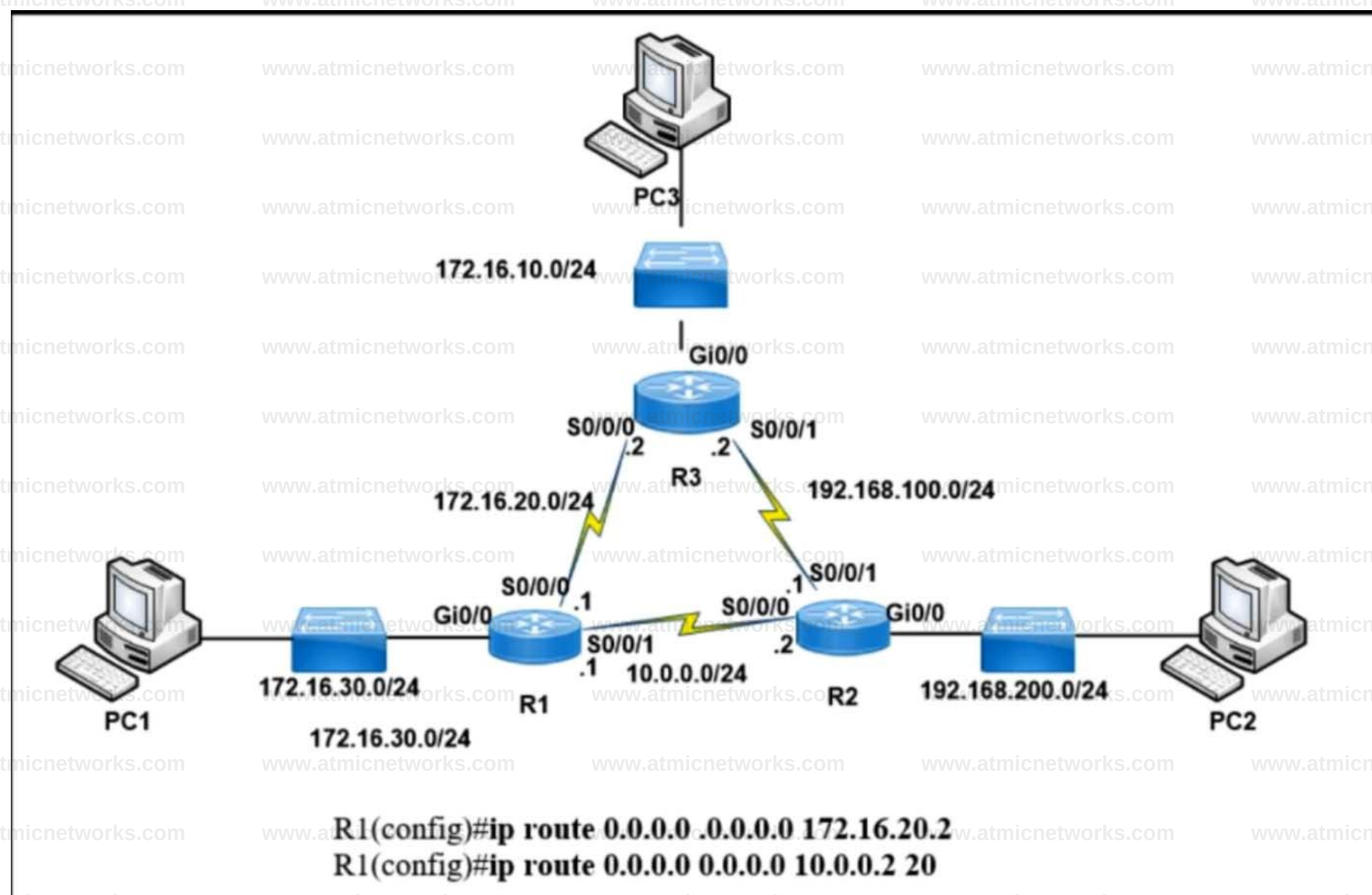
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 245



Refer to the exhibit. After applying this configuration to router R1, a network engineer is verifying the implementation. If all links are operating normally, and the engineer sends a series of packets from PC1 to PC3, how are the packets routed?

- A. They are distributed sent round robin to interfaces S0/0/0 and S0/0/1.
- B. They are routed to 10.0.0.2.
- C. They are routed to 172.16.20.2.
- D. They are routed to 192.168.100.2.

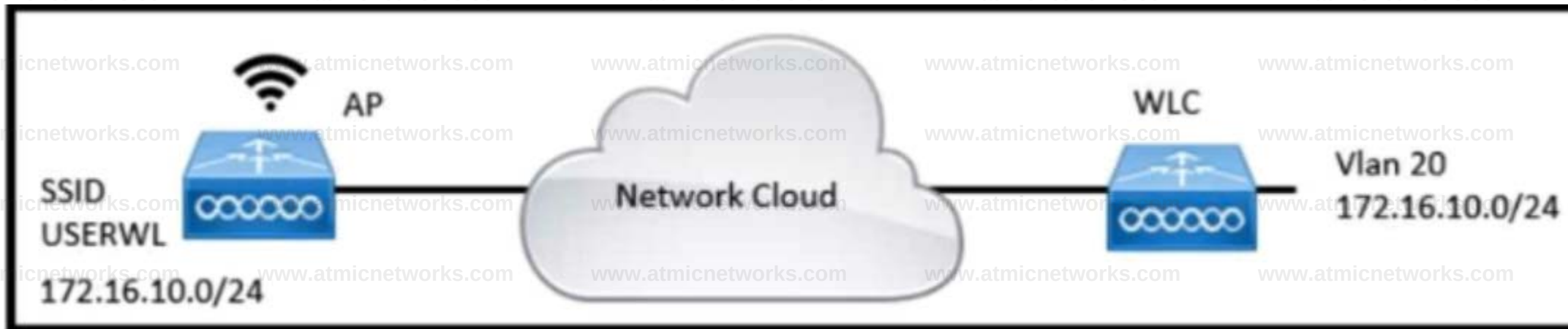
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 246



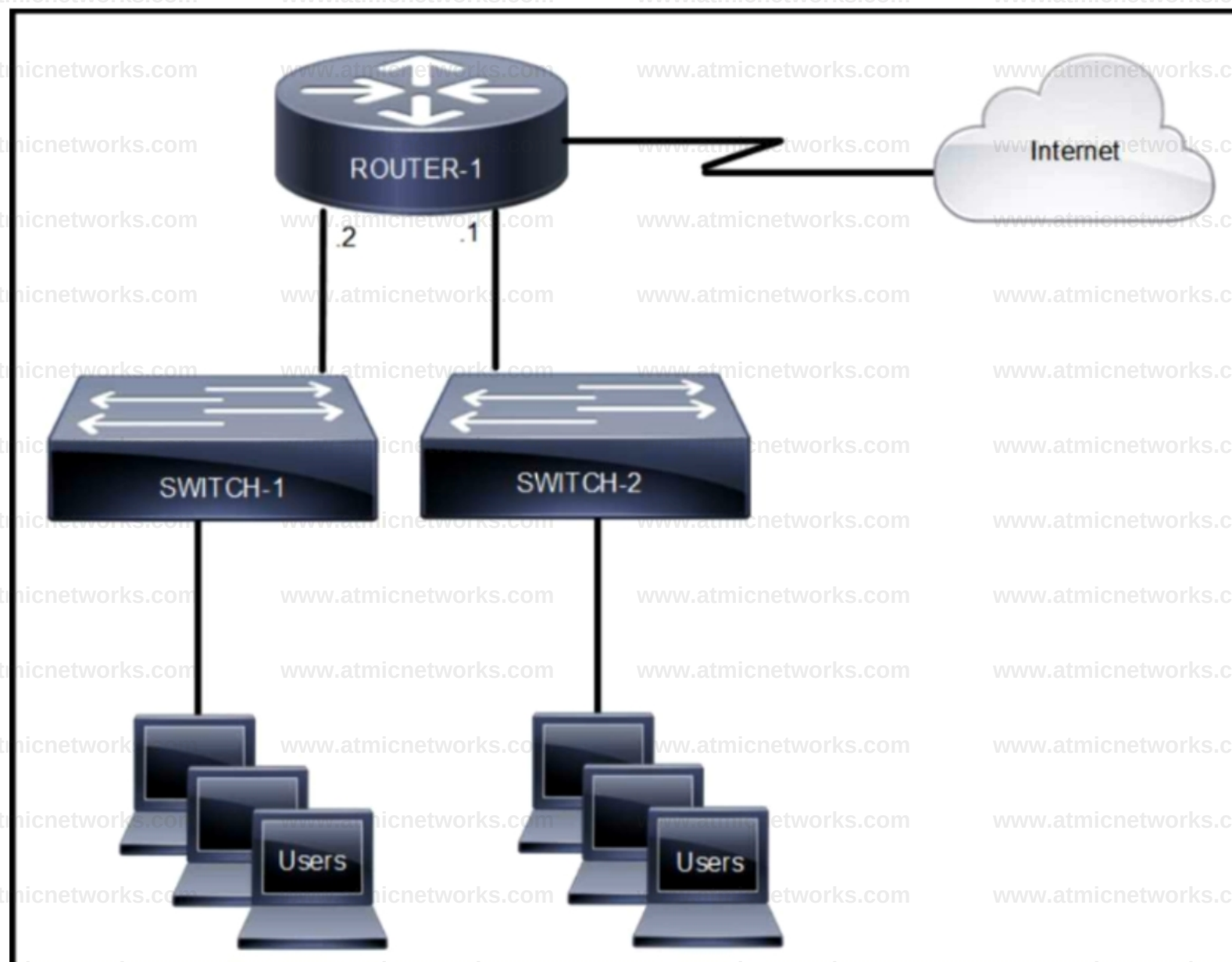
Refer to the exhibit. A network engineer is configuring a WLAN to connect with the 172.16.10.0/24 network on VLAN 20. The engineer wants to limit the number of devices that connect to the WLAN on the USERWL SSID to 125. Which configuration must the engineer perform on the WLC?

- A. In the WLAN configuration, set the Maximum Allowed Clients value to 125.
- B. In the Controller IPv6 configuration, set the Throttle value to 125.
- C. In the Management Software activation configuration, set the Clients value to 125.
- D. In the Advanced configuration, set the DTIM value to 125.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 247



Refer to the exhibit. Which command set configures ROUTER-1 to allow Internet access for users on the 192.168.1.0/24 subnet while using 209.165.202.129 for Port Address Translation?

- A.

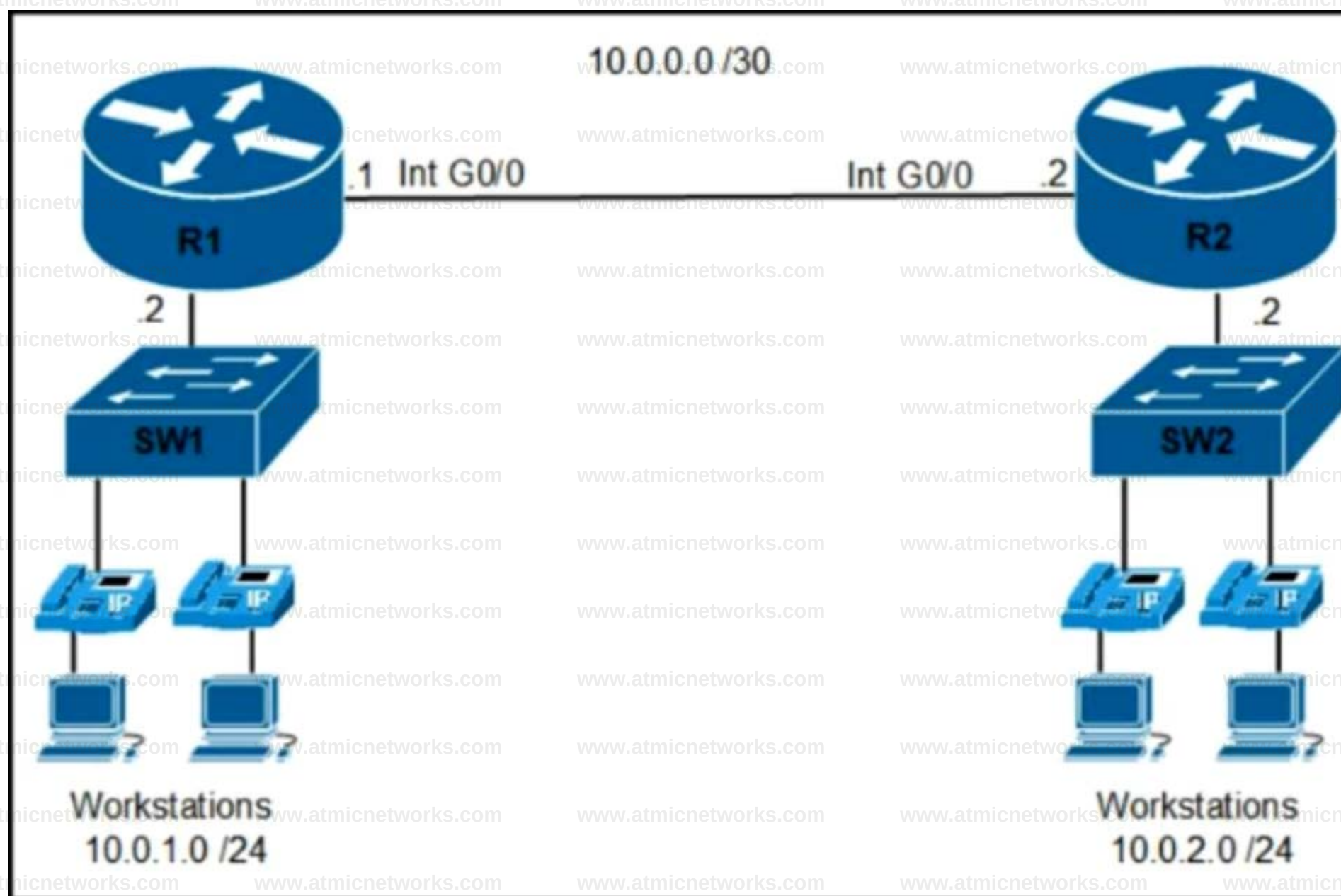
```
ip nat pool CCNA 209.165.202.129 209.165.202.129 netmask 255.255.255.255
access-list 10 permit 192.168.1.0 0.0.0.255
ip nat inside source list 10 pool CCNA overload
```
- B.

```
ip nat pool CCNA 209.165.202.129 209.165.202.129 netmask 255.255.255.255
access-list 10 permit 192.168.1.0 255.255.255.0
ip nat inside source list 10 pool CCNA overload
```
- C.

```
ip nat pool CCNA 192.168.0.0 192.168.1.255 netmask 255.255.255.0
access-list 10 permit 192.168.0.0 255.255.255.0
ip nat inside source list 10 pool CCNA overload
```
- D.

```
ip nat pool CCNA 192.168.0.0 192.168.1.255 netmask 255.255.255.0
access-list 10 permit 192.168.0.0 0.0.0.255
ip nat inside source list 10 pool CCNA overload
```

Correct Answer: A
Section: (none)



Refer to the exhibit. An engineer is asked to configure router R1 so that it forms an OSPF single-area neighbor relationship with R2. Which command sequence must be implemented to configure the router?

- A. router ospf 10
network 10.0.0.0 0.0.0.3 area 0
network 10.0.1.0 0.0.0.255 area 0
- B. router ospf 100
network 10.0.0.0 0.0.0.3 area 0
network 10.0.2.0 255.255.255.0 area 0
- C. router ospf 10
network 10.0.0.0 0.0.0.3 area 0
network 10.0.2.0 0.0.0.255 area 0
- D. router ospf 100
network 10.0.0.0 0.0.0.252 area 0
network 10.0.1.0 0.0.0.255 area 0

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 251

General	Security	QoS	Policy-Mapping	Advanced
Allow AAA Override	☐ Enabled			
Coverage Hole Detection	☐ Enabled			
Enable Session Timeout	☐			
Aironet IE	☐ Enabled			
Diagnostic Channel ¹⁸	☐ Enabled			
Override Interface ACL	IPv4 None IPv6 None			
Layer2 Acl	None			
URL ACL	None			
P2P Blocking Action	Disabled			
Client Exclusion ²	☒ Enabled 180			
	Timeout Value (secs)			
Maximum Allowed Clients ⁸	0			
Static IP Tunneling ¹¹	☐ Enabled			
Wi-Fi Direct Clients Policy	Disabled			
Maximum Allowed Clients Per AP Radio	200			
Clear HotSpot Configuration	☐ Enabled			

DHCP	
DHCP Server	☐ Override
DHCP Addr. Assignment	☐ Required
Management Frame Protection (MFP)	
MFP Client Protection ⁴	Optional
DTIM Period (in beacon intervals)	
802.11a/n (1 - 255)	1
802.11b/g/n (1 - 255)	1
NAC	
NAC State	None
Load Balancing and Band Select	
Client Load Balancing	☐
Client Band Select	☐
Passive Client	

Refer to the exhibit. An administrator is configuring a new WLAN for a wireless network that has these requirements:

Dual-band clients that connect to the WLAN must be directed to the 5-GHz spectrum.

Wireless clients on this WLAN must be able to apply VLAN settings on the returned RADIUS attributes.

Which two actions meet these requirements? (Choose two.)

- A. Set the MFP Client Protection option to Required.
- B. Enable the Client Band Select option
- C. Enable the Allow AAA Override option
- D. Enable the Coverage Hole Detection option
- E. Enable the Aironet IE option.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 252

Which IPsec transport mode encrypts the IP header and the payload?

- A. pipe
- B. transport
- C. tunnel
- D. control

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 253

```
Gateway of last resort is 172.16.2.2 to network 0.0.0.0

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C    10.10.8.0/28 is directly connected, GigabitEthernet0/0/2
C    10.10.10.0/24 is directly connected, GigabitEthernet0/0/0
L    10.10.10.3/32 is directly connected, GigabitEthernet0/0/0
172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
S    172.16.1.33/32 is directly connected, GigabitEthernet0/0/1
C    172.16.2.0/23 is directly connected, GigabitEthernet0/0/1
L    172.16.2.1/32 is directly connected, GigabitEthernet0/0/1
S*   0.0.0.0/0 [1/0] via 172.16.2.2
```

Refer to the exhibit. A packet sourced from 10.10.10.1 is destined for 10.10.8.14. What is the subnet mask of the destination route?

- A. 255.255.254.0
- B. 255.255.255.240
- C. 255.255.255.248
- D. 255.255.255.252

Correct Answer: B

Section: (none)
Explanation
Explanation/Reference:

QUESTION 254

```
{
  "myCar": {
    "name": "thunder",
    "wheels": ["good", "good", "pressureLow", "warning"],
    "gasLight": false
  },
  "oldCar": {
    "name": "sleepy",
    "wheels": ["pressureLow", "pressureLow", "pressureLow", "pressureLow"],
    "color": "rust"
    "gasLight": true
  },
  "newCar": {
    "name": "lightning",
    "wheels": ["pressureLow", "good", "pressureLow", "good"],
    "color": "blue"
    "gasLight": true
  }
}
```

Refer to the exhibit. In which structure does the word "warning" directly reside?

- A. array
- B. object
- C. Boolean
- D. string

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 255

Gateway of last resort is not set

10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks

C 10.1.1.0/30 is directly connected, GigabitEthernet0/0

L 10.1.1.2/32 is directly connected, GigabitEthernet0/0

S 192.168.0.0/20 [1/0] via 10.1.1.1

192.168.1.0/30 is subnetted, 1 subnets

S 192.168.1.0/30 [1/0] via 10.1.1.1

192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks

S 192.168.2.0/28 [1/0] via 10.1.1.1

S 192.168.2.0/29 [1/0] via 10.1.1.1

Refer to the exhibit. An engineer is checking the routing table in the main router to identify the path to a server on the network. Which route does the router use to reach the server at 192.168.2.2?

- A. S 192.168.2.0/29 [1/0] via 10.1.1.1
- B. S 192.168.2.0/28 [1/0] via 10.1.1.1
- C. S 192.168.1.0/30 [1/0] via 10.1.1.1
- D. S 192.168.0.0/20 [1/0] via 10.1.1.1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 256

Which two actions are taken as the result of traffic policing? (Choose two.)

- A. remarking
- B. dropping
- C. bursting
- D. buffering
- E. fragmentation

Correct Answer: AB

Section: (none)

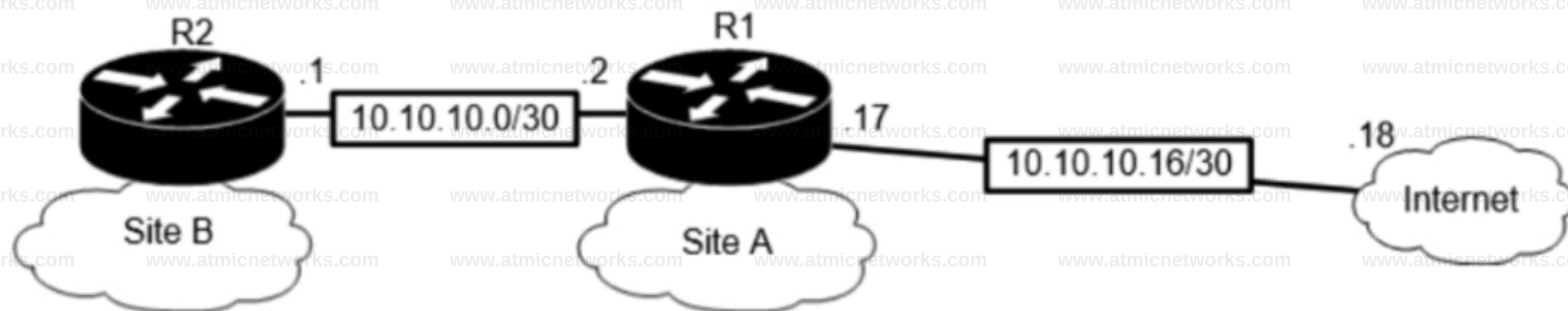
Explanation

Explanation/Reference:

QUESTION 257

What does WPA3 provide in wireless networking?

- A. increased security and requirement of a complex configuration
- B. optional Protected Management Frame negotiation
- C. safeguards against brute force attacks with SAE



```

R2#sh run | b router ospf
router ospf 1
router-id 2.2.2.2
log-adjacency-changes
auto-cost reference-bandwidth 10000
network 10.10.10.1 0.0.0.0 area 0
network 10.10.13.1 0.0.0.0 area 0

```

```

R2#show ip route
Gateway of last resort is not set
10.0.0.0/8 is variably subnetted, 3 subnets, 3 masks
C 10.10.10.0/30 is directly connected
C 10.10.13.0/25 is directly connected, Vlan20
C 10.10.13.144/28 is directly connected, Vlan40

```

```

R1#show ip route
Gateway of last resort is not set
10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C 10.10.10.0/30 is directly connected, FastEthernet0/1
O 10.10.13.0/25 [110/6576] via 10.10.10.1, 01:37:03
C 10.10.10.16/30 is directly connected, FastEthernet0/24
O 10.10.13.144/28 [110/110] via 10.10.10.1, 01:37:03

```

```

R1#sh run | b router ospf
router ospf 1
router-id 1.1.1.1
log-adjacency-changes
auto-cost reference-bandwidth 10000
network 10.10.10.2 0.0.0.0 area 0
default-information originate

```

Refer to the exhibit. The default-information originate command is configured under the R1 OSPF configuration. After testing, workstations on VLAN 20 at Site B are unable to reach a DNS server on the Internet. Which action corrects the configuration issue?

- Add the always keyword to the default-information originate command on R1.
- Add the default-information originate command on R2.
- Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.2 command on R2.
- Configure the ip route 0.0.0.0 0.0.0.0 10.10.10.18 command on R1.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 262

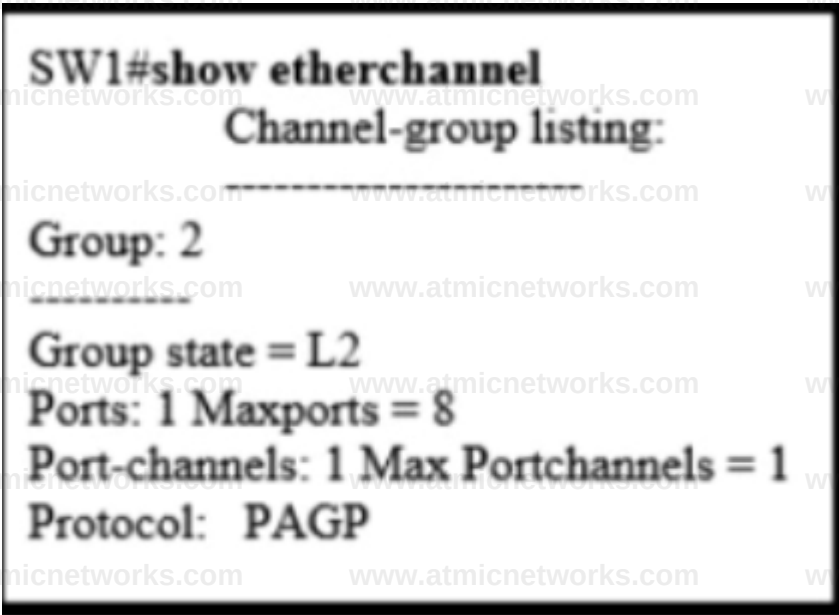
A packet from a company's branch office is destined to host 172.31.0.1 at headquarters. The sending router has three possible matches in its routing table for the packet: prefixes 172.31.0.0/16, 172.31.0.0/24, and 172.31.0.0/25. How does the router handle the packet?

- A. It sends the traffic via prefix 172.31.0.0/25
- B. It sends the traffic via prefix 172.31.0.0/24.
- C. It sends the traffic via the default gateway 0.0.0.0/0.
- D. It sends the traffic via prefix 172.31.0.0/16.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 263



Refer to the exhibit. A network engineer updates the existing configuration on interface fastethernet1/1 switch SW1. It must establish an EtherChannel by using the same group designation with another vendor switch. Which configuration must be performed to complete the process?

- A. interface port-channel 2
channel-group 2 mode desirable
- B. interface fastethernet 1/1
channel-group 2 mode active
- C. interface fastethernet 1/1
channel-group 2 mode on
- D. interface port-channel 2
channel-group 2 mode auto

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 264

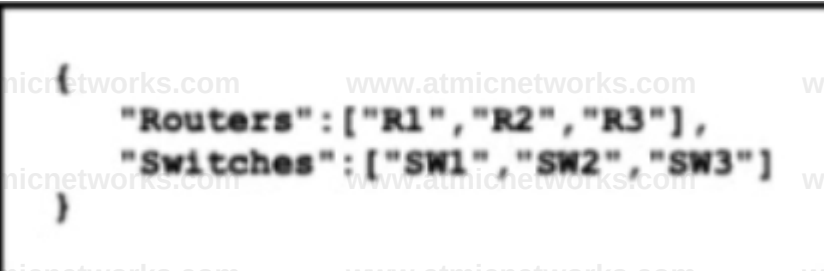
What is a feature of TFTP?

- A. relies on the well-known TCP port 20 to transmit data
- B. offers anonymous user login ability
- C. uses two separate connections for control and data traffic
- D. provides secure data transfer

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 265



Refer to the exhibit. What is represented by "R1" and "SW1" within the JSON output?

- A. value
- B. array
- C. object
- D. key

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 266

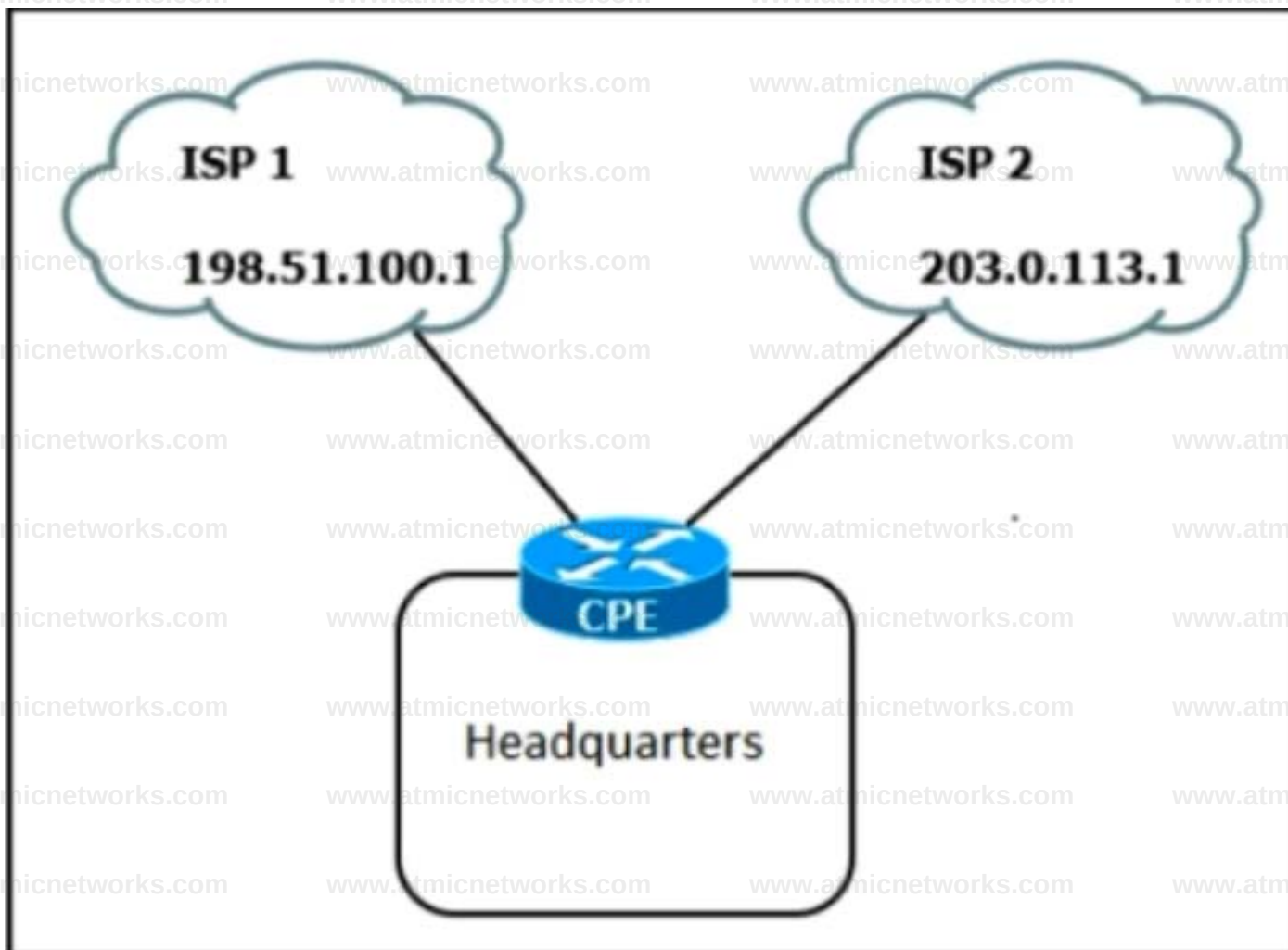
Which two characteristics are representative of virtual machines (VMs)? (Choose two.)

- A. multiple VMs operate on the same underlying hardware
- B. Each VMs operating system depends on its hypervisor.
- C. A VM on an individual hypervisor shares resoufces equally.
- D. A VM on a hypervisor is automatically interconnected to other VMs.
- E. Each VM runs independently of any other VM in the same hypervisor.

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 267



Refer to the exhibit. A network administrator configures the CPE to provide internet access to the company headquarters. Traffic must be load-balanced via ISP1 and ISP2 to ensure redundancy. Which two command sets must be configured on the CPE router? (Choose two.)

- A. `ip route 0.0.0.0 0.0.0.0 198.51.100.1`
`ip route 0.0.0.0 0.0.0.0 203.0.113.1`
- B. `ip route 0.0.0.0 128.0.0.0 198.51.100.1`
`ip route 128.0.0.0 128.0.0.0 203.0.113.1`
`ip route 0.0.0.0 0.0.0.0 198.51.100.1`
`ip route 0.0.0.0 0.0.0.0 203.0.113.1`
- C. `ip route 0.0.0.0 0.0.0.0 198.51.100.1 255`
`ip route 0.0.0.0 0.0.0.0 203.0.113.1 255`
`ip route 128.0.0.0 128.0.0.0 203.0.113.1`
- D. `ip route 0.0.0.0 0.0.0.0 198.51.100.1`
`ip route 0.0.0.0 0.0.0.0 203.0.113.12`
- E. `ip route 0.0.0.0 128.0.0.0 198.51.100.1`
`ip route 128.0.0.0 128.0.0.0 203.0.113.1`

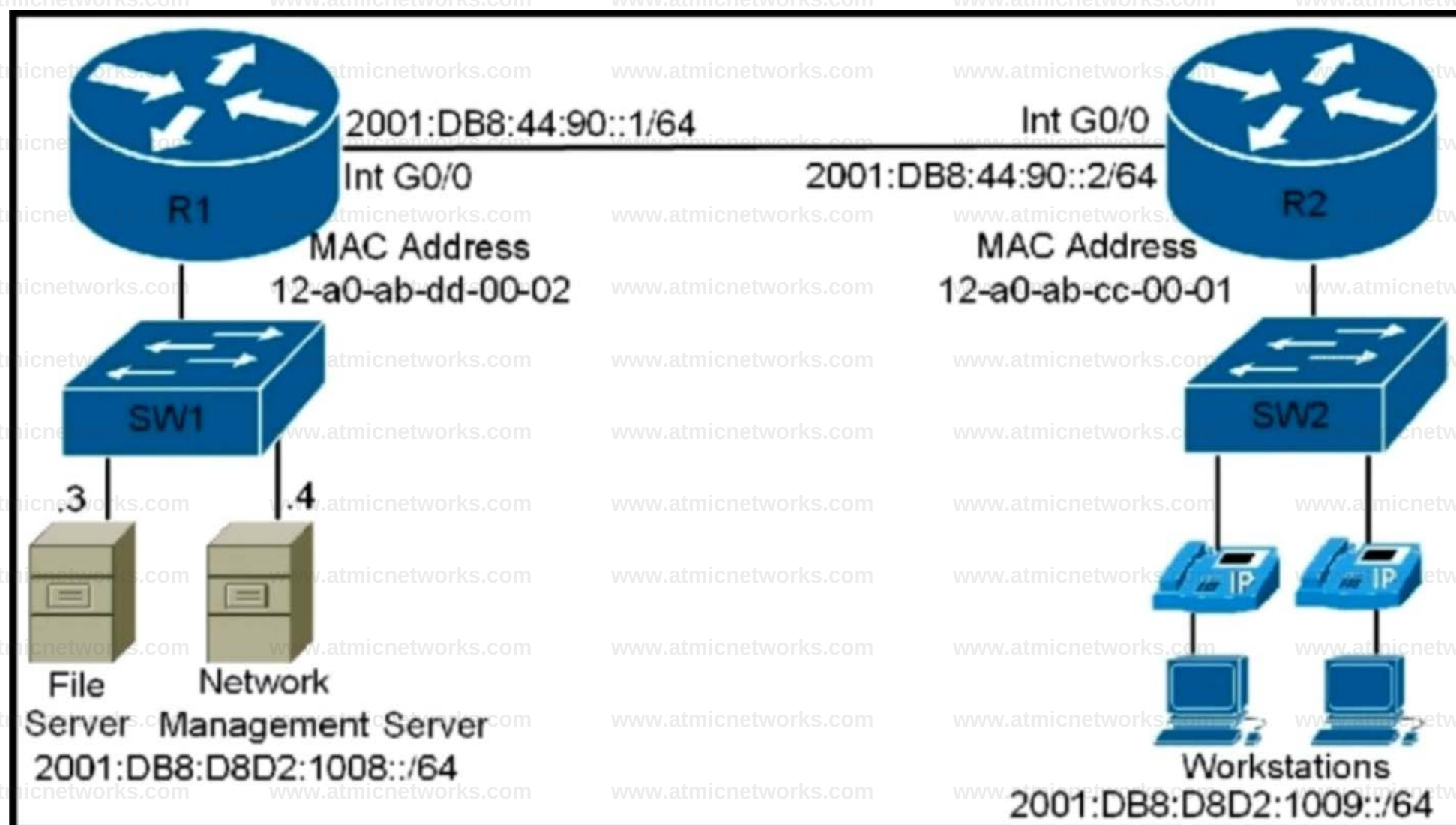
Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 268



Refer to the exhibit. The IPv6 address for the LAN segment on router R2 must be configured using the EUI-64 format. Which address must be used?

- A. ipv6 address 2001:DB8:D8D2:1009:4383:88FF:FF94:2 eui-64
- B. ipv6 address 2001:DB8:D8D2:1009:12A0:AB34:FFCC:1 eui-64
- C. ipv6 address 2001:DB8:D8D2:1009:1230:ABFF:FECC:1 eui-64
- D. ipv6 address 2001:DB8:D8D2:1009:10A0:ABFF:FECC:1 eui-64

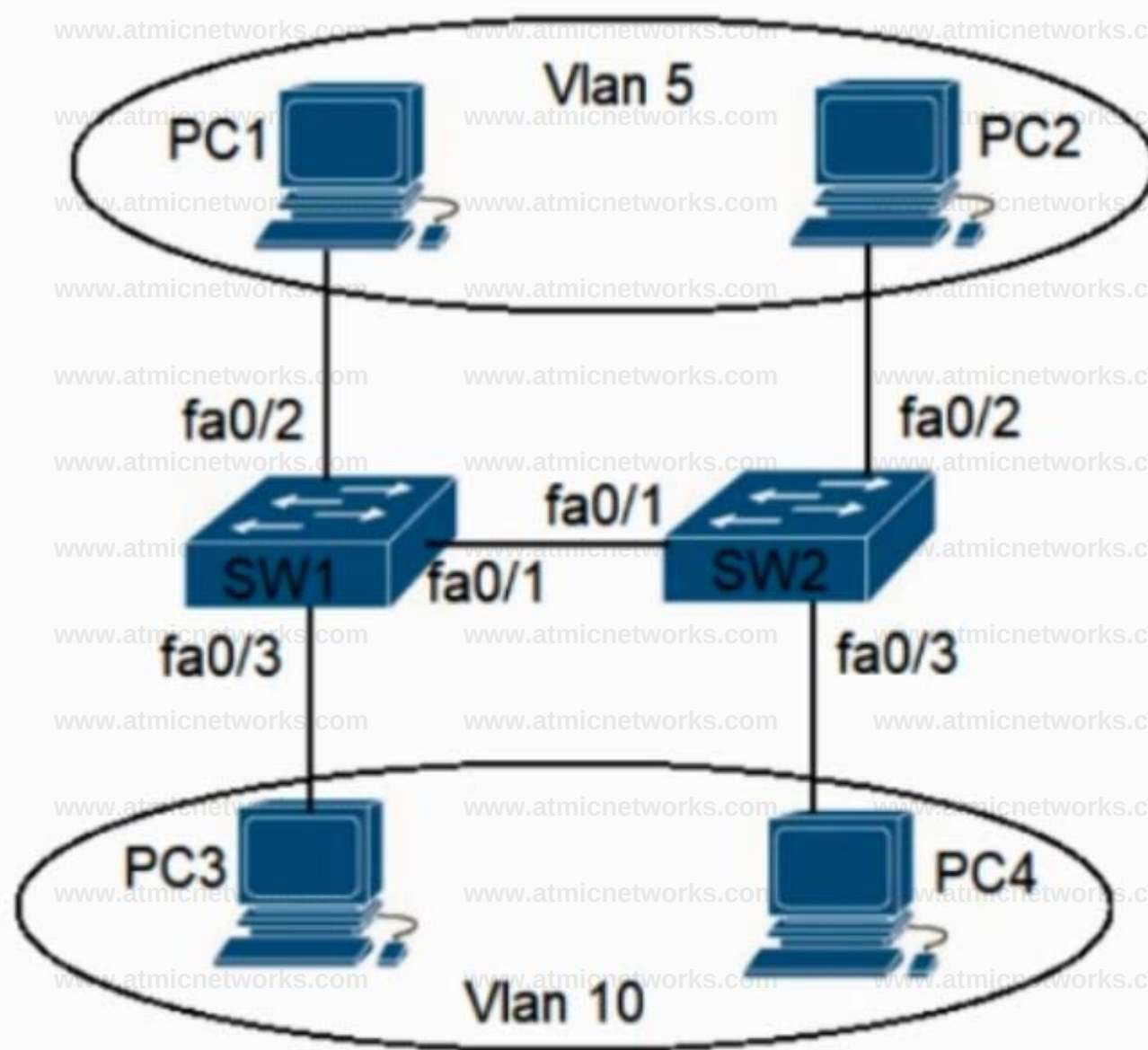
Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 269



```
Switch2 (config) #interface fa0/1
Switch2 (config-if) #switchport mode dynamic auto
Switch2 (config-if) #switchport trunk allowed vlan 5,10
```

Refer to the exhibit. SW2 is replaced because of a hardware failure. A network engineer starts to configure SW2 by copying the fa0/1 interface configuration from SW1. Which command must be configured on the fa0/1 interface of SW2 to enable PC1 to connect to PC2?

- A. switchport trunk native vlan 10
- B. switchport mode trunk
- C. switchport trunk allowed remove 10
- D. switchport mode access

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 270

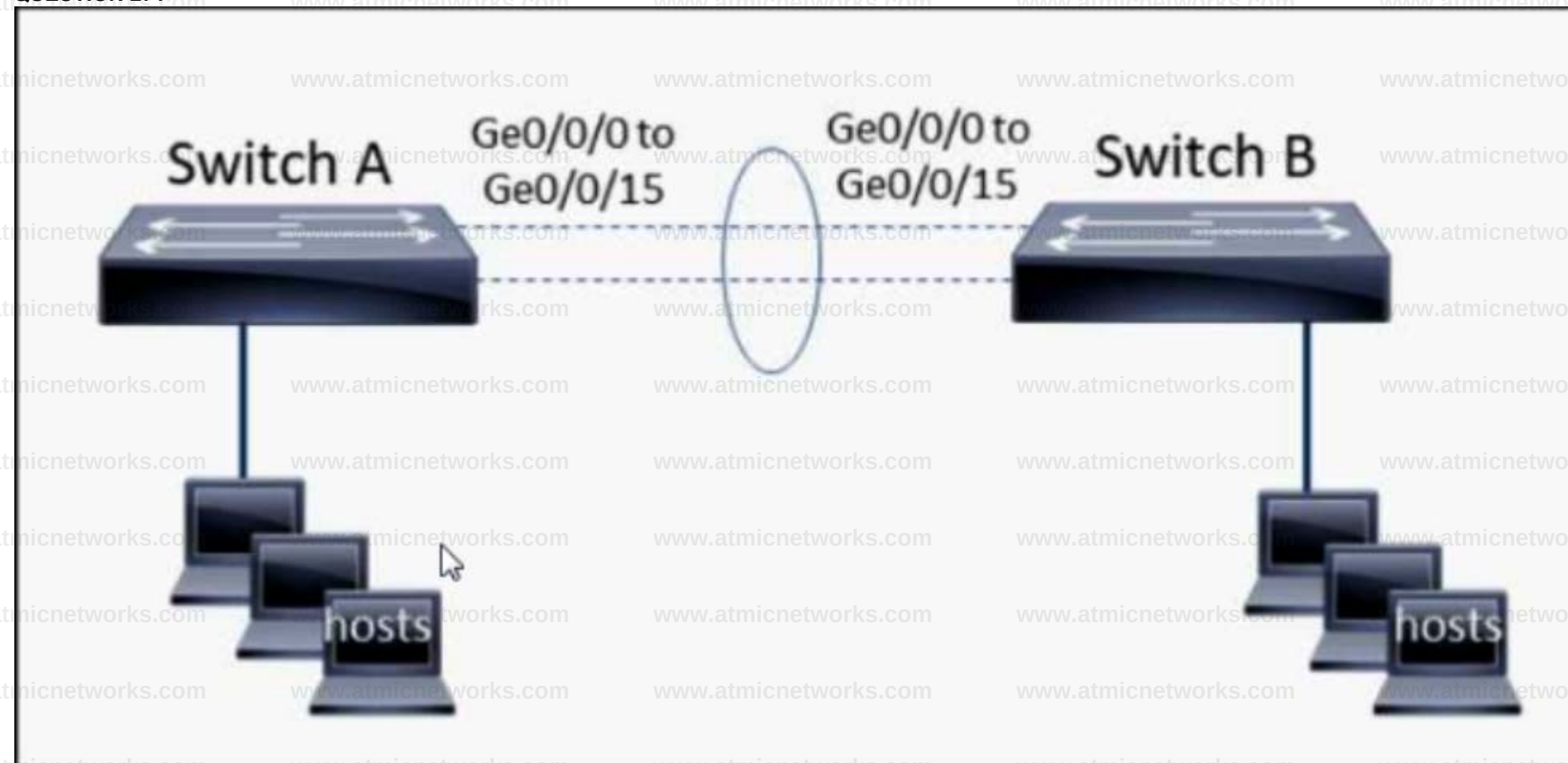
What is the benefit of using private IPv4 addressing?

- A. to enable secure connectivity over the Internet
- B. to shield internal network devices from external access
- C. to provide reliable connectivity between like devices
- D. to be routable over an external network

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 271



Refer to the exhibit. The EtherChannel is configured with a speed of 1000 and duplex as full on both ends of channel group 1. What is the next step to configure the channel on switch A to respond to but not initiate LACP communication?

- A. interface port-channel 1
channel-group 1 mode auto
- B. interface range gigabitethernet0/0/0-15
channel-group 1 mode on

- C. interface port-channel 1
channel-group 1 mode passive
- D. interface range gigabitethernet0/0/0-15
channel-group 1 mode desirable

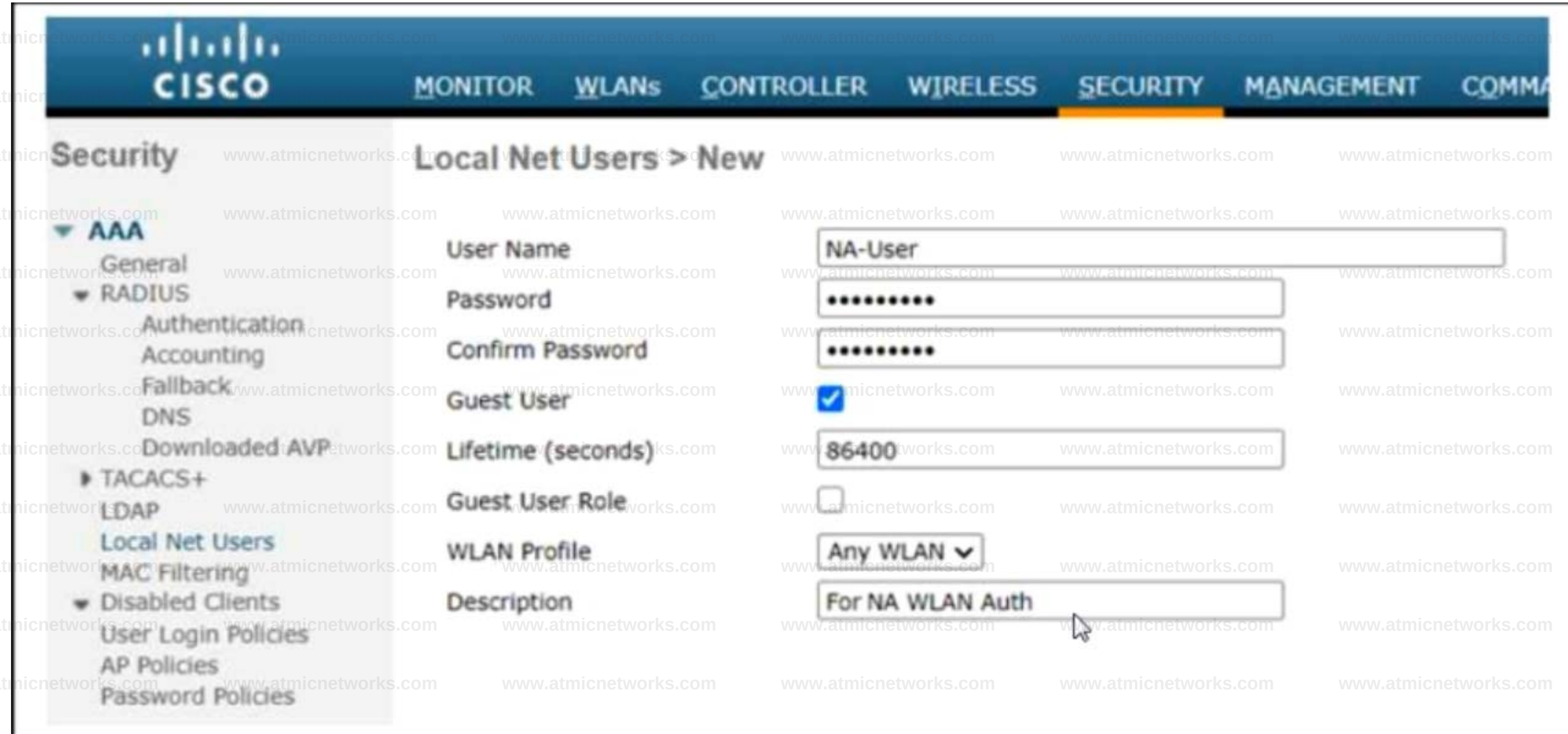
Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 272



The image shows the Cisco Wireless LAN Controller (WLC) configuration interface. The top navigation bar includes tabs for MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY (highlighted), MANAGEMENT, and CQMM. The left sidebar shows the Security menu with options: AAA, General, RADIUS, Authentication, Accounting, Fallback, DNS, Downloaded AVP, TACACS+, LDAP, Local Net Users (selected), MAC Filtering, Disabled Clients, User Login Policies, AP Policies, and Password Policies. The main content area is titled 'Local Net Users > New'. It contains several fields: 'User Name' with the value 'NA-User', 'Password' and 'Confirm Password' both masked with dots, 'Guest User' checked with a blue checkmark, 'Lifetime (seconds)' with the value '86400', 'Guest User Role' unchecked, 'WLAN Profile' with a dropdown menu showing 'Any WLAN', and 'Description' with the text 'For NA WLAN Auth'. A mouse cursor is pointing at the Description field.

Refer to the exhibit. Wireless LAN access must be set up to force all clients from the NA WLAN to authenticate against the local database. The WLAN is configured for local EAP authentication. The time that users access the network must not be limited. Which action completes this configuration?

- A. Set the Lifetime (seconds) value to 0.
- B. Clear the Lifetime (seconds) value
- C. Uncheck the Guest User check box.
- D. Check the Guest User Role check box.

Correct Answer: A