

Cisco.200-301.v2023-07-05.q357

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NEW QUESTION: 1

Drag and drop the descriptions of AAA services from the left onto the corresponding services on the right.

allows the user to change to enable mode

limits the user's access permissions

logs session statistics

records user commands

secures access to routers

validates user credentials

Accounting

Authentication

Authorization

Answer:

allows the user to change to enable mode

limits the user's access permissions

logs session statistics

records user commands

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Accounting

records user commands

logs session statistics

Authentication

validates user credentials

allows the user to change to enable mode

Authorization

limits the user's access permissions

secures access to routers

NEW QUESTION: 2

Refer to the exhibit.

```

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

```

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

Answer: B (LEAVE A REPLY)

NEW QUESTION: 3

An office has 8 floors with approximately 30-40 users per floor. What command must be configured on the router Switched Virtual Interface to use address space efficiently?

- A. ip address 192.168.0.0 255.255.0.0
- B. ip address 192.168.0.0 255.255.255.128
- C. ip address 192.168.0.0 255.255.255.224
- D. ip address 192.168.0.0 255.255.254.0

Answer: D (LEAVE A REPLY)

NEW QUESTION: 4

An engineer is configuring NAT to translate the source subnet of 10.10.0.0/24 to any of three addresses 192.168.30.1, 192.168.3.2, 192.168.3.3. Which configuration should be used?

- enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
route-map permit 10.10.0.0 255.255.255.0
ip nat outside destination list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside
- enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.255
ip nat inside source list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside
- enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.255
ip nat outside destination list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside
- enable
configure terminal
ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
access-list 1 permit 10.10.0.0 0.0.0.254
ip nat inside source list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside

- A. Option C
- B. Option D
- C. Option B
- D. Option A

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 5

A network engineer is installing an IPv6-only capable device. The client has requested that the device IP address be reachable only from the internal network. Which type of IPv6 address must the engineer assign?

- A. IPv4-compatible IPv6 address
- B. aggregatable global address
- C. unique local address

D. link-local address

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 6

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     0043.49d4.c383    DYNAMIC  e0/3
Sw1#
```

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

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 7

Drag and drop the AAA features from the left onto the corresponding AAA security services on the right. Not all options are used.

Answer Area

It enables the device to allow user- or group-based access.

It leverages a RADIUS server to grant user access to a reverse Telnet session.

It records the amount of time for which a user accesses the network on a remote server.

It restricts the CLI commands that a user can perform.

It uses TACACS+ to log the configuration commands entered by a network administrator.

It verifies the user and password before granting access to the device.

Accounting

Authorization

Answer:

Answer Area

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Accounting

It records the amount of time for which a user accesses the network on a remote server.

It uses TACACS+ to log the configuration commands entered by a network administrator.

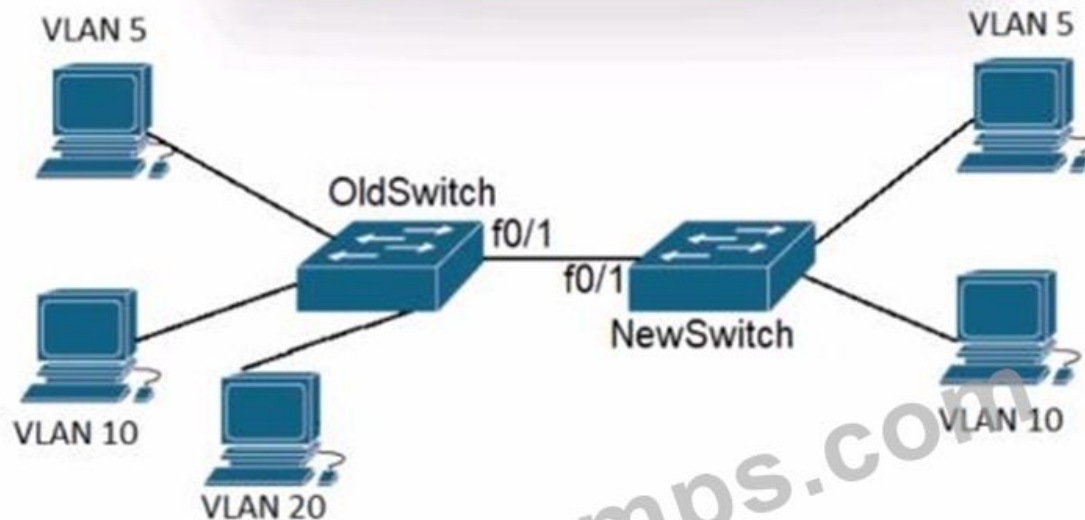
Authorization

It leverages a RADIUS server to grant user access to a reverse Telnet session.

It restricts the CLI commands that a user can perform.

NEW QUESTION: 8

Refer to the exhibit.



```
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
```

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)
- ```
no switchport trunk encapsulation isl
switchport trunk encapsulation dot1q
switchport trunk allowed vlan add 20
```
- B)
- ```
> switchport nonegotiate
no switchport trunk allowed vlan 5,10
switchport trunk allowed vlan 5,10,15,20
```
- C)
- ```
> no switchport mode trunk
switchport trunk encapsulation isl
switchport mode access vlan 20
```
- D)

```
switchport mode dynamic
channel-group 1 mode active
switchport trunk allowed vlan 5,10,15, 20
```

- A. Option A
- B. Option C
- C. Option D
- D. Option B

Answer: (SHOW ANSWER)

#### NEW QUESTION: 9

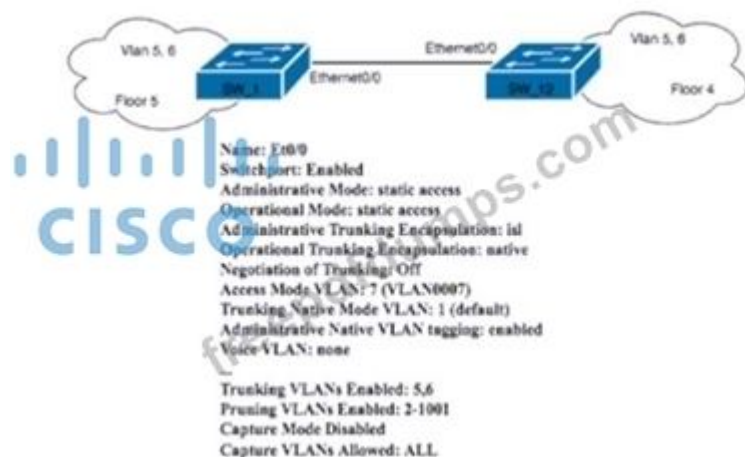
When DHCP is configured on a router, which command must be entered so the default gateway is automatically distributed?

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

Answer: B (LEAVE A REPLY)

#### NEW QUESTION: 10

Refer to the exhibit.



SW\_1 and SW\_12 represent two companies that are merging. They use separate network vendors. The VLANs on both Sides have been migrated to share IP subnets. Which command sequence must be issued on both sides to join the two companies and pass all VLANs between the companies?

- A. switchport mode trunk  
switchport trunk encapsulation dot1q
- B. switchport mode dynamic desirable  
switchport trunk allowed vlan all  
switchport trunk native vlan 7
- C. switchport dynamic auto  
switchport nonegotiate
- D. switchport mode trunk  
switchport trunk allowed vlan all

switchport dot1q ethertype 0800

**Answer:** ([SHOW ANSWER](#))

### NEW QUESTION: 11

What occurs to frames during the process of frame flooding?

- A. Frames are sent to every port on the switch in the same VLAN.
- B. Frames are sent to every port on the switch in the same VLAN except from the originating port
- C. Frames are sent to every port on the switch that has a matching entry in the MAC address table.
- D. Frames are sent to all ports, including those that are assigned to other VLANs.

**Answer:** B ([LEAVE A REPLY](#))

### NEW QUESTION: 12

Refer to the exhibit.

```
Switch(config)#hostname R1
R1(config)#interface FastEthernet0/1
R1(config-if)#no switchport
R1(config-if)#ip address 10.100.20.42 255.255.255.0
R1(config-if)#line vty 0 4
R1(config-line)#login
```

An engineer booted a new switch and applied this configuration via the console port. Which additional configuration must be applied to allow administrators to authenticate directly to enable privilege mode via Telnet using a local username and password?

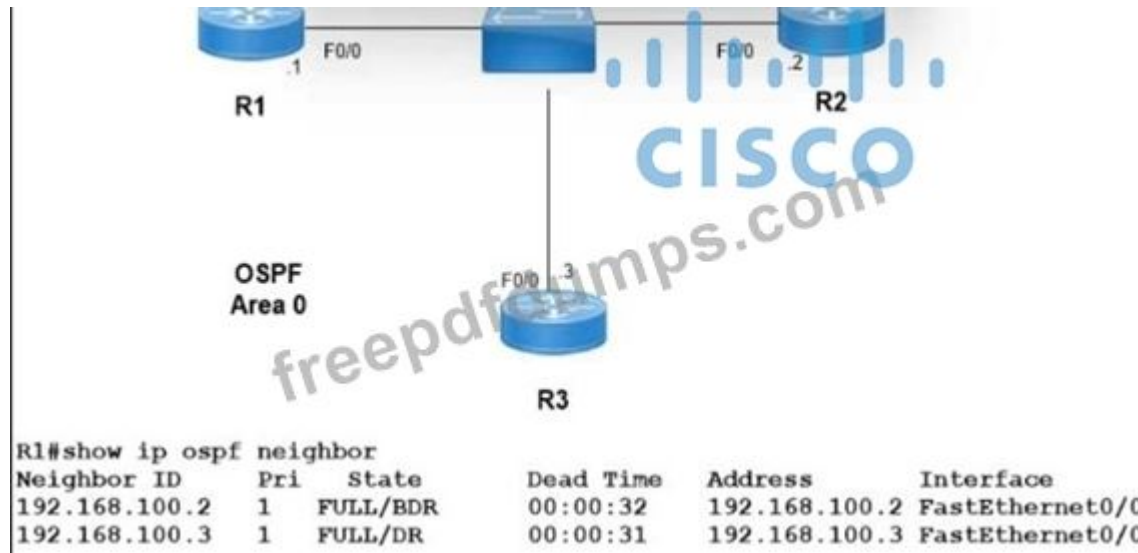
- R1(config)#username admin privilege 15 secret p@ss1234  
R1(config-if)#line vty 0 4  
R1(config-line)#login local
- R1(config)#username admin secret p@ss1234  
R1(config-if)#line vty 0 4  
R1(config-line)#login local  
R1(config)#enable secret p@ss1234
- R1(config)#username admin  
R1(config-if)#line vty 0 4  
R1(config-line)#password p@ss1234  
R1(config-line)#transport input telnet
- R1(config)#username admin  
R1(config-if)#line vty 0 4  
R1(config-line)#password p@ss1234

- A. Option C
- B. Option A
- C. Option D
- D. Option B

**Answer:** ([SHOW ANSWER](#))

### NEW QUESTION: 13

Refer to the exhibit.



Which two configurations must the engineer apply on this network so that R1 becomes the DR? (Choose two.) A)

```
R1(config)#router ospf 1
R1(config-router)#router-id 192.168.100.1
```

B)

```
R1(config)#interface fastethernet 0/0
R1(config-if)#ip ospf priority 200
```

C)

```
R3(config)#interface fastethernet 0/0
R3(config-if)#ip ospf priority 0
```

D)

```
R1(config)#interface fastethernet 0/0
R1(config-if)#ip ospf priority 0
```

E)

```
R3(config)#interface fastethernet 0/0
R3(config-if)#ip ospf priority 200
```

A. Option C

B. Option B

C. Option D

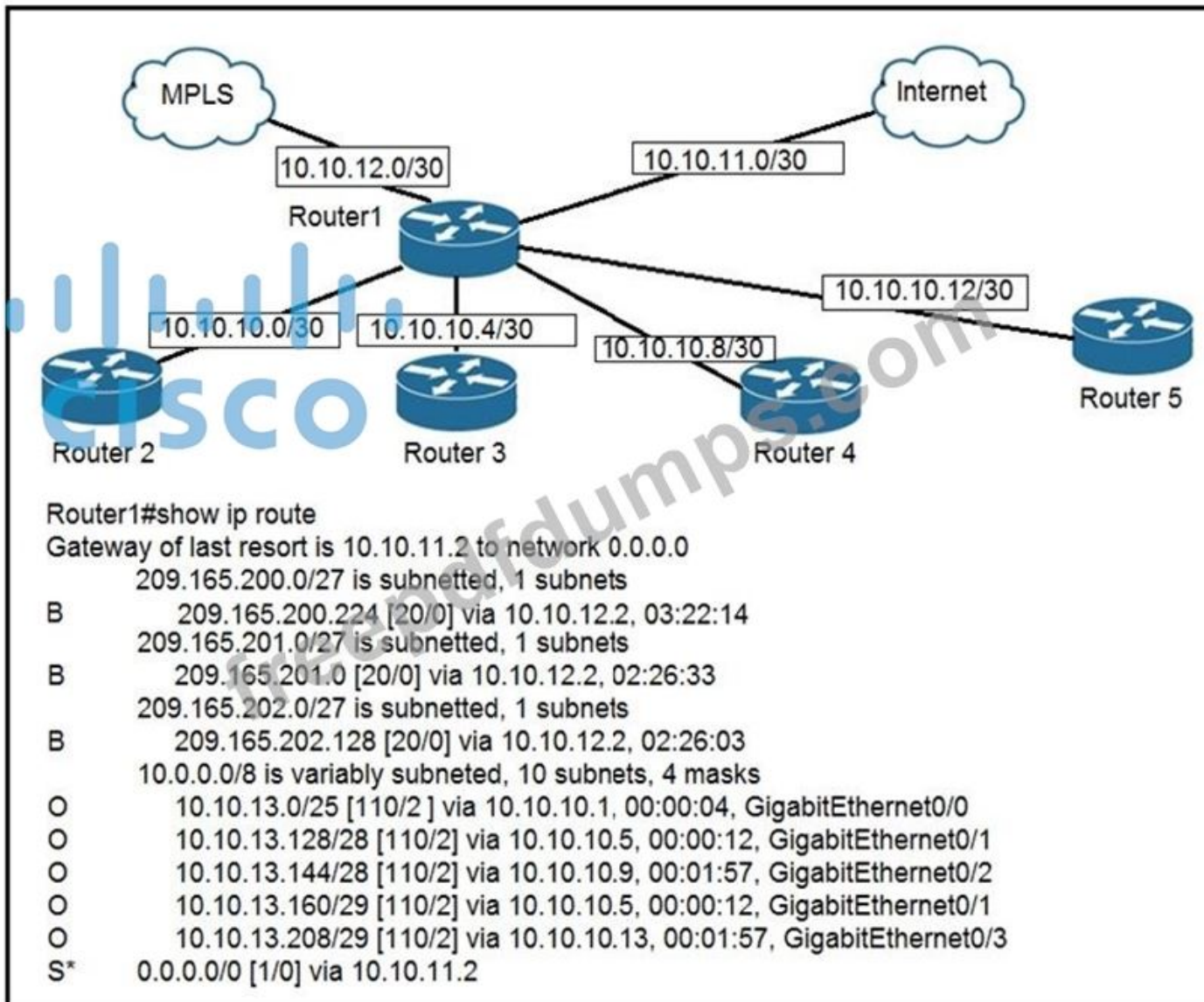
D. Option E

E. Option A

**Answer: A,B (LEAVE A REPLY)**

**NEW QUESTION: 14**

Refer to the exhibit.



To which device does Router1 send packets that are destined to host 10.10.13.165?

- A. Router2
- B. Router4
- C. Router5
- D. Router3

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 15

Which two IPv6 addresses are used to provide connectivity between two routers on a shared link? (Choose two)

- A. ;jff06bb43cd4dd111bbff02 4545234d
- B. FF02::0WIFF00:0I)00/104
- C. ::ffif 1014 1011/96
- D. 2001 7011046:1111:1/64
- E. 2002 5121204b 1111:1/64

Answer: D ([LEAVE A REPLY](#))

#### NEW QUESTION: 16

Which access layer threat-mitigation technique provides security based on identity?

- A. Dynamic ARP Inspection
- B. using a non-default native VLAN
- C. DHCP snooping
- D. 802.1x

Answer: D ([LEAVE A REPLY](#))

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#### NEW QUESTION: 17

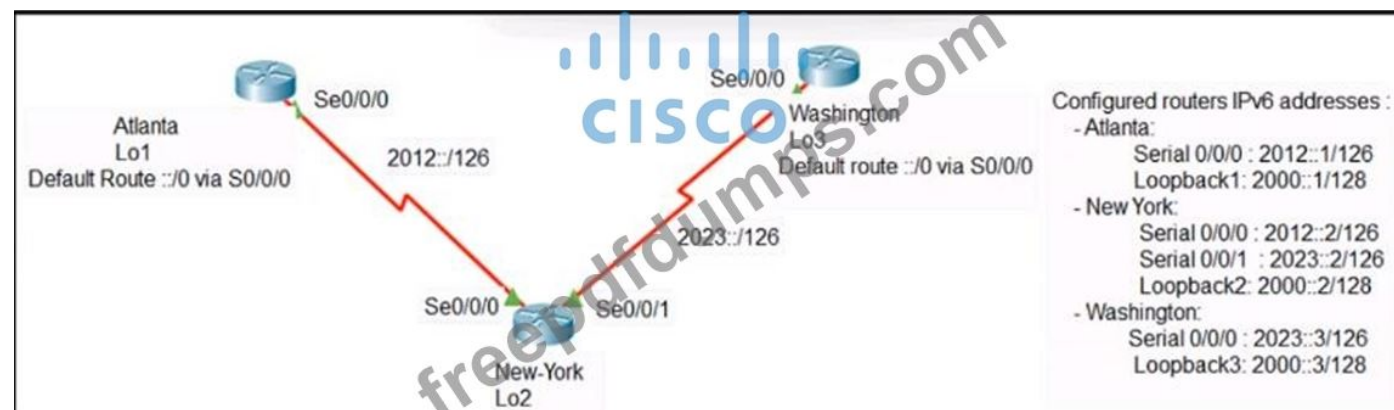
How do TCP and UDP fit into a query-response model?

- A. TCP encourages out-of-order packet delivery, and UDP prevents re-ordering.
- B. TCP uses error detection for packets, and UDP uses error recovery.
- C. TCP avoids using sequencing, and UDP avoids using acknowledgments.
- D. TCP establishes a connection prior to sending data, and UDP sends immediately.

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 18

Refer to the exhibit.



The loopback1 interface of the Atlanta router must reach the lookback3 interface of the Washington router.

- A. ipv6 route 2000::1/128 s0/0/1
- B. ipv6 route 2000::1/128 2012::2
- C. ipv6 route 2000::3/128 s0/0/0
- D. ipv6 route 2000::1/128 2012::1
- E. ipv6 route 2000::3/128 2023::3

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 19**

Which JSON data type is an unordered set of attribute- value pairs?

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

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 20**

Refer to the exhibit.

```
RI# 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 207.165.200.250, Serial0/0/0
O 172.16.3.0/28 [110/84437] via 207.165.200.254, 00:00:28, Serial0/0/1
 207.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C 207.165.200.244/30 is directly connected, Serial0/1/0
L 207.165.200.245/32 is directly connected, Serial0/1/0
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
```

A packet is being sent across router R1 to host 172.163.3.14. To which destination does the router send the packet?

- A. 207.165.200.254 via Serial0/0/0
- B. 207.165.200.250 via Serial0/0/0
- C. 207.165.200.246 via Serial0/1/0
- D. 207.165.200.254 via Serial0/0/1

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 21**

An engineer has configured the domain name, user name, and password on the local router. What is the next step to complete the configuration for a Secure Shell access RSA key?

- A. crypto key zeroize rsa
- B. crypto key pubkey-chain rsa
- C. crypto key Import rsa pem
- D. crypto key generate rsa

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 22**

How does QoS optimize voice traffic?

- A. reducing bandwidth usage
- B. by differentiating voice and video traffic
- C. by reducing packet loss

D. by increasing jitter

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 23**

PC1 tries to send traffic to newly installed PC2. The PC2 MAC address is not listed in the MAC address table of the switch, so the switch sends the packet to all ports in the same VLAN Which switching concept does this describe?

- A. MAC address table
- B. frame flooding
- C. MAC address aging
- D. spanning-tree protocol

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 24**

What is the function of the controller in a software-defined network?

- A. fragmenting and reassembling packets
- B. multicast replication at the hardware level
- C. forwarding packets
- D. making routing decisions

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 25**

What does an SDN controller use as a communication protocol to relay forwarding changes to a southbound API?

- A. Java
- B. OpenFlow
- C. REST
- D. XML

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 26**

What is a function of TFTP in network operations?

- A. transfers a backup configuration file from a server to a switch using a username and password
- B. transfers files between file systems on a router
- C. transfers a configuration files from a server to a router on a congested link
- D. transfers IOS images from a server to a router for firmware upgrades

**Answer: D (LEAVE A REPLY)**

TFTP is mostly used (Firmware upgrade) whereby the admin have the IOS image on one device and uses TFTP to load the image to all other devices quickly.

**NEW QUESTION: 27**

What is the function of "off-the-shell" switches in a controller-based network?

- A. making routing decisions

- B. setting packet-handling policies
- C. providing a central view of the deployed network
- D. forwarding packets

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 28**

When configuring a WLAN with WPA2 PSK in the Cisco Wireless LAN Controller GUI, which two formats are available to select? (Choose two)

- A. decimal
- B. ASCII
- C. binary
- D. base64
- E. hexadecimal

**Answer: B,E (LEAVE A REPLY)**

**NEW QUESTION: 29**

Refer to the exhibit.



The P2P blocking action option is disabled on the WLC.

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

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 30**

Refer to the exhibit.

```

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

Gateway of last resort is 209.165.202.131 to network 0.0.0.0

S* 0.0.0.0/0 [1/0] via 209.165.202.131
 209.165.200.0/27 is subnetted, 1 subnets
S 209.165.200.224 [254/0] via 209.165.202.129
 209.165.201.0/27 is subnetted, 1 subnets
S 209.165.201.0 [1/0] via 209.165.202.130

```

Which command configures a floating static route to provide a backup to the primary link?

- A. ip route 0.0.0.0 0.0.0.0 209.165.202.131
- B. ip route 0.0.0.0 0.0.0.0 209.165.200.224
- C. ip route 209.165.201.0 255.255.255.224 209.165.202.130
- D. ip route 209.165.200.224 255.255.255.224 209.165.202.129 254

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 31

Which type of traffic is sent with pure IPsec?

- A. broadcast packets from a switch that is attempting to locate a MAC address at one of several remote sites
- B. multicast traffic from a server at one site to hosts at another location
- C. spanning-tree updates between switches that are at two different sites
- D. unicast messages from a host at a remote site to a server at headquarters

Answer: D ([LEAVE A REPLY](#))

"The original poster makes a correct observation that EIGRP does not work in a pure IPSEC environment. IPSEC was designed to process unicast traffic.

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#### NEW QUESTION: 32

An engineer must configure Interswitch VLAN communication between a Cisco switch and a third-party switch. Which action should be taken?

- A. configure IEEE 802.1p

- B. configure DSCP
- C. configure IEEE 802.1q
- D. configure ISL

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 33**

When should an engineer implement a collapsed-core architecture?

- A. for large networks that are connected to multiple remote sites
- B. only when using VSS technology
- C. the access and distribution layers must be on the same device
- D. for small networks with minimal need for growth

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 34**

In a cloud-computing environment what is rapid elasticity?

- A. control and monitoring of resource consumption by the tenant
- B. self-service of computing resources by the tenant
- C. pooling resources in a multitenant model based on need
- D. automatic adjustment of capacity based on need

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 35**

A network engineer must create a diagram of a multivendor network. Which command must be configured on the Cisco devices so that the topology of the network can be mapped?

- A. Device(Config)#cdp run
- B. Device(Config)#lldp run
- C. Device(Config-if)#cdp enable
- D. Device(Config)#flow-sampler-map topology

**Answer:** B ([LEAVE A REPLY](#))

**NEW QUESTION: 36**

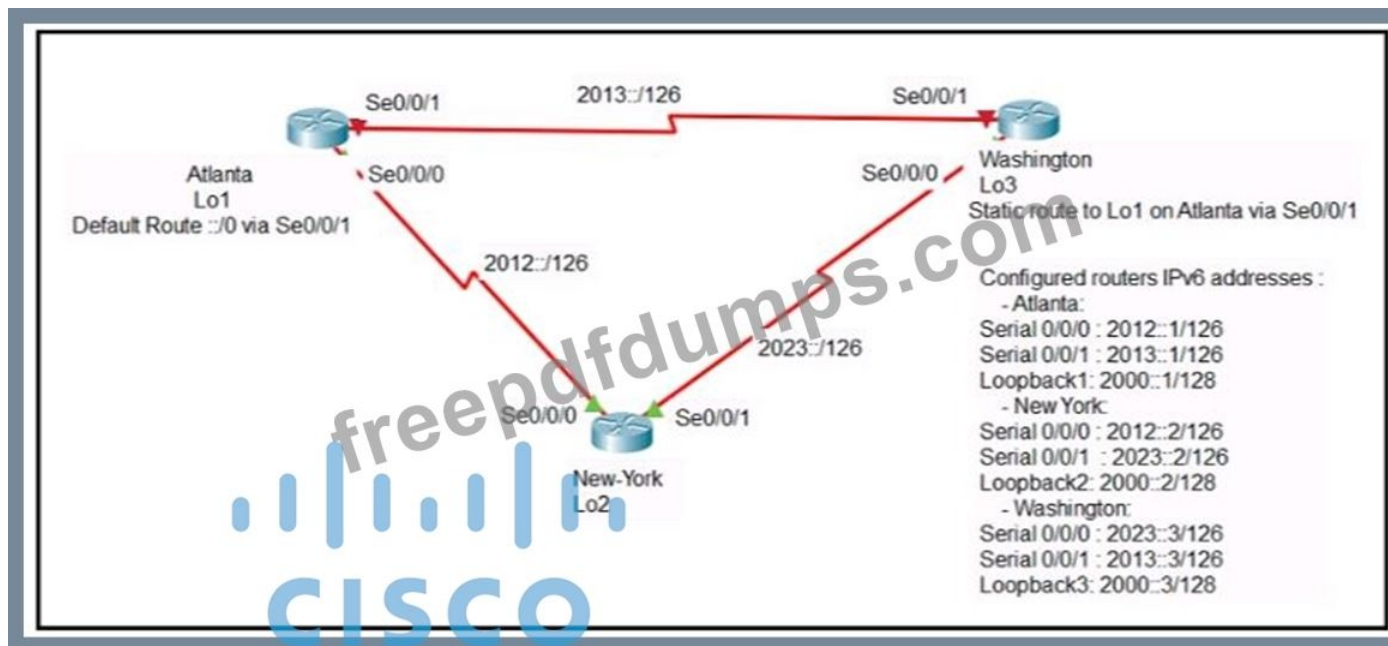
What is an advantage of Cisco DNA Center versus traditional campus device management?

- A. It is designed primarily to provide network assurance.
- B. It supports high availability for management functions when operating in cluster mode.
- C. It enables easy autodiscovery of network elements in a brownfield deployment.
- D. It supports numerous extensibility options including cross-domain adapters and third-party SDKs.

**Answer:** D ([LEAVE A REPLY](#))

**NEW QUESTION: 37**

Refer to Exhibit.



An engineer is configuring the NEW York router to reach the Lo1 interface of the Atlanta router using interface Se0/0/0 as the primary path. Which two commands must be configured on the New York router so that it can reach the Lo1 interface of the Atlanta router via Washington when the link between New York and Atlanta goes down? (Choose two)

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

**Answer: (SHOW ANSWER)**

Floating static routes are static routes that have an administrative distance greater than the administrative distance (AD) of another static route or dynamic routes. By default a static route has an AD of 1 then floating static route must have the AD greater than 1. Floating static route has a manually configured administrative distance greater than that of the primary route and therefore would not be in the routing table until the primary route fails.

#### NEW QUESTION: 38

An engineer is asked to protect unused ports that are configured in the default VLAN on a switch. Which two steps will fulfill the request? (Choose two)

- A. Configure the ports as trunk ports
- B. Enable the Cisco Discovery Protocol
- C. Administratively shut down the ports
- D. Configure the ports in an EtherChannel.
- E. Configure the port type as access and place in VLAN 99

**Answer: C,E (LEAVE A REPLY)**

#### NEW QUESTION: 39

What is a capability of FTP in network management operations?

- A. encrypts data before sending between data resources

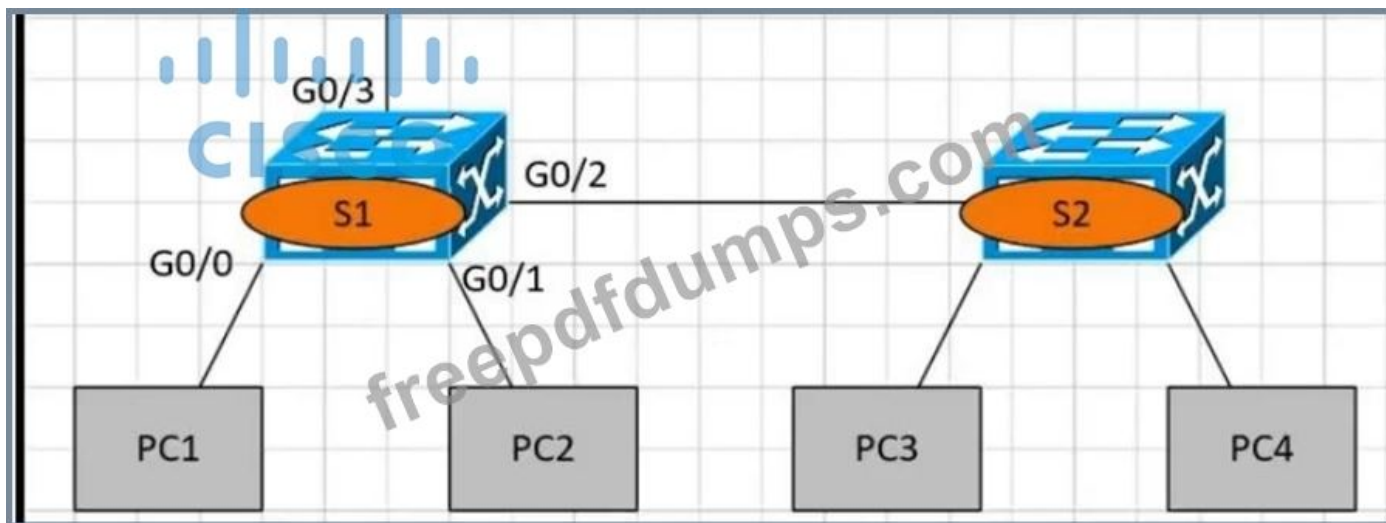
- B. devices are directly connected and use UDP to pass file information
- C. uses separate control and data connections to move files between server and client
- D. offers proprietary support at the session layer when transferring data

**Answer: C (LEAVE A REPLY)**

The File Transfer Protocol (FTP) is a standard communication protocol used for the transfer of computer files from a server to a client on a computer network. FTP is built on a client-server model architecture using separate control and data connections between the client and the server.

**NEW QUESTION: 40**

Refer to the exhibit.



PC1 is trying to ping PC3 for the first time and sends out an ARP to S1 Which action is taken by S1?

- A. It is flooded out every port except G0/0.
- B. It drops the frame.
- C. It forwards it out interface G0/2 only.
- D. It forwards it out G0/3 only

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 41**

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 2
- C. logging trap 4
- D. logging trap 5

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 42**

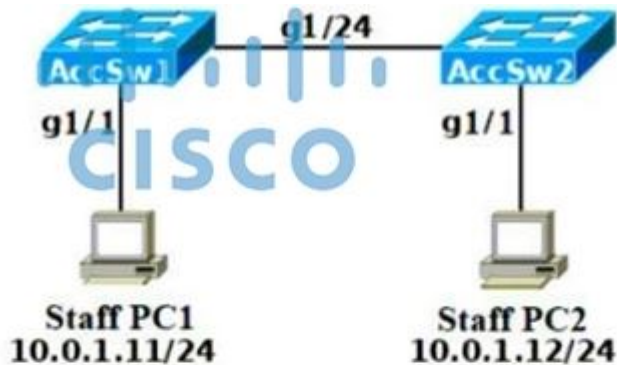
Which two outcomes are predictable behaviors for HSRP? (Choose two)

- A. The two routers share a virtual IP address that is used as the default gateway for devices on the LAN.
- B. The two routers negotiate one router as the active router and the other as the standby router

- C. The two routers share the same IP address, and default gateway traffic is load-balanced between them
  - D. Each router has a different IP address both routers act as the default gateway on the LAN, and traffic is load balanced between them.
  - D The two routers synchronize configurations to provide consistent packet forwarding
- Answer: A,B (LEAVE A REPLY)**

**NEW QUESTION: 43**

Refer to the exhibit.



AccSw1#sho vlan

| VLAN Name    | Status | Ports                                                                                                                                                                              |
|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 default    | active | Fa0/3, Fa0/4, Fa0/5, Fa0/6<br>Fa0/7, Fa0/8, Fa0/9, Fa0/10<br>Fa0/11, Fa0/12, Fa0/13, Fa0/14<br>Fa0/15, Fa0/16, Fa0/17, Fa0/18<br>Fa0/19, Fa0/20, Fa0/21, Fa0/22<br>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

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?

```

interface GigabitEthernet1/2
switchport mode access
switchport access vlan 12
!
interface GigabitEthernet1/24
switchport mode trunk
switchport trunk allowed vlan 11,12

```

A.

- interface GigabitEthernet1/1  
switchport mode access  
switchport access vlan 11  
!  
interface GigabitEthernet1/24  
switchport mode trunk
- B.

- interface GigabitEthernet1/24  
switchport mode trunk  
switchport trunk allowed vlan 11,12  
!  
interface GigabitEthernet1/1  
switchport access vlan 11
- C.

- interface GigabitEthernet1/2  
switchport mode access  
switchport access vlan 2  
!  
interface GigabitEthernet1/24  
switchport mode trunk
- D.

Answer: B ([LEAVE A REPLY](#))

#### NEW QUESTION: 44

Router A learns the same route from two different neighbors, one of the neighbor routers is an OSPF neighbor and the other is an EIGRP neighbor. What is the administrative distance of the route that will be installed in the routing table?

- A. 20  
B. 90  
C. 110  
D. 115

Answer: B ([LEAVE A REPLY](#))

The Administrative distance (AD) of EIGRP is 90 while the AD of OSPF is 110 so EIGRP route will be chosen to install into the routing table.

#### NEW QUESTION: 45

A network engineer must implement an IPv6 configuration on the vlan 2000 interface to create a routable locally-unique unicast address that is blocked from being advertised to the internet. Which configuration must the engineer apply?

- A. interface vlan 2000  
ipv6 address fd00::1234:2343/64  
B. interface vlan 2000  
ipv6 address fe80:0000:aaaa::1234:2343/64  
C. interface vlan 2000  
ipv6 address ffc0:0000:aaaa::1234:2343/64

D. interface vlan 2000

Ipv6 address fc00:0000:aaaa:a15d:1234:2343:8aca/64

**Answer: D (LEAVE A REPLY)**

#### NEW QUESTION: 46

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

A. DHCP request

B. Discovery request

C. DHCP discover

D. Discovery response

**Answer: B (LEAVE A REPLY)**

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#### NEW QUESTION: 47

What are two benefits of FHRPs? (Choose two.)

A. They are able to bundle multiple ports to increase bandwidth.

B. They enable automatic failover of the default gateway.

C. They allow encrypted traffic.

D. They allow multiple devices to serve as a single virtual gateway for clients in the network.

E. They prevent loops in the Layer 2 network.

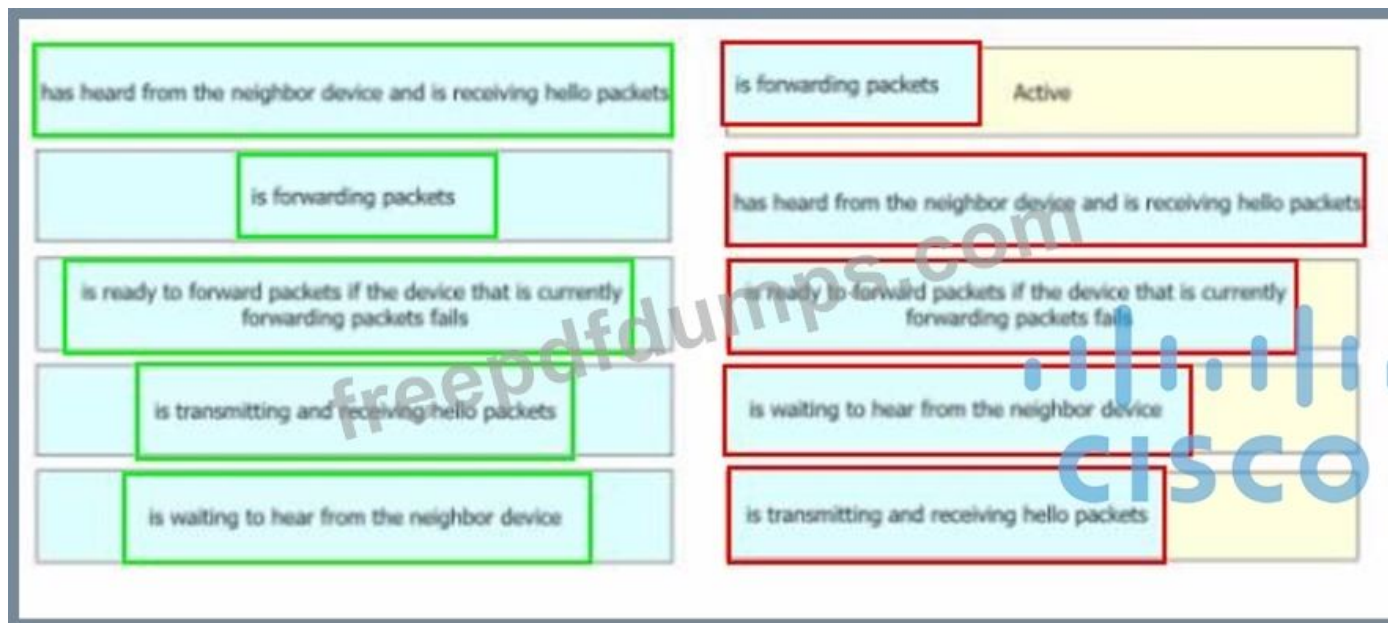
**Answer: B,D (LEAVE A REPLY)**

#### NEW QUESTION: 48

Drag and drop the device behaviors from the left onto the matching HSRP slate on the right.

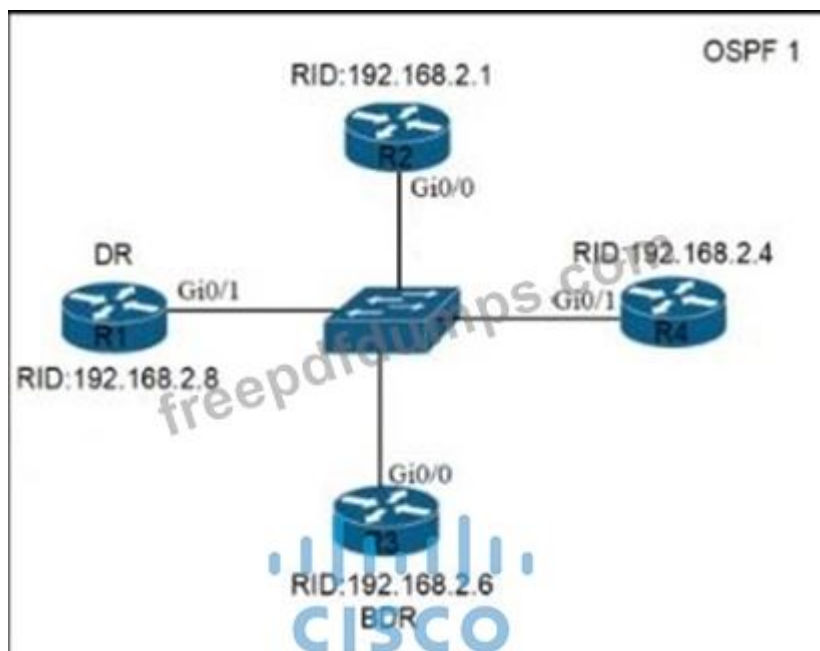
|                                                                                      |         |
|--------------------------------------------------------------------------------------|---------|
| has heard from the neighbor device and is receiving hello packets                    | Active  |
| is forwarding packets                                                                | Listen  |
| is ready to forward packets if the device that is currently forwarding packets fails | Speak   |
| is transmitting and receiving hello packets                                          | Standby |
| is waiting to hear from the neighbor device                                          |         |

**Answer:**



**NEW QUESTION: 49**

Refer to the exhibit.



Refer to the exhibit. All routers in the network are configured R2 must be the DR. After the engineer connected the devices, R1 was elected as the DR. Which command sequence must be configure on R2 to Be elected as the DR in the network?

- R2(config)#interface gi0/0  
R2(config-if)#ip ospf priority 1
- R2(config)#interface gi0/0  
R2(config-if)#ip ospf priority 100
- R2(config)#router ospf 1  
R2(config-router)#router-id 10.100.100.100
- R2(config)#router ospf 1  
R2(config-router)#router-id 192.168.2.7

- A. Option A
- B. Option C
- C. Option D
- D. Option B

**Answer: D ([LEAVE A REPLY](#))**

**NEW QUESTION: 50**

Which QoS per-hop behavior changes the value of the ToS field in the IPv4 packet header?

- A. policing
- B. marking
- C. shaping
- D. classification

**Answer: B ([LEAVE A REPLY](#))**

**NEW QUESTION: 51**

How does encryption protect the wireless network?

- A. via integrity checks to identify wireless forgery attacks in the frame
- B. via an algorithm to change wireless data so that only the access point and client understand it
- C. via a policy to prevent unauthorized users from communicating on the wireless network
- D. via specific ciphers to detect and prevent zero-day network attacks

**Answer: B ([LEAVE A REPLY](#))**

**NEW QUESTION: 52**

Which two tasks must be performed to configure NTP to a trusted server in client mode on a single network device? (Choose two)

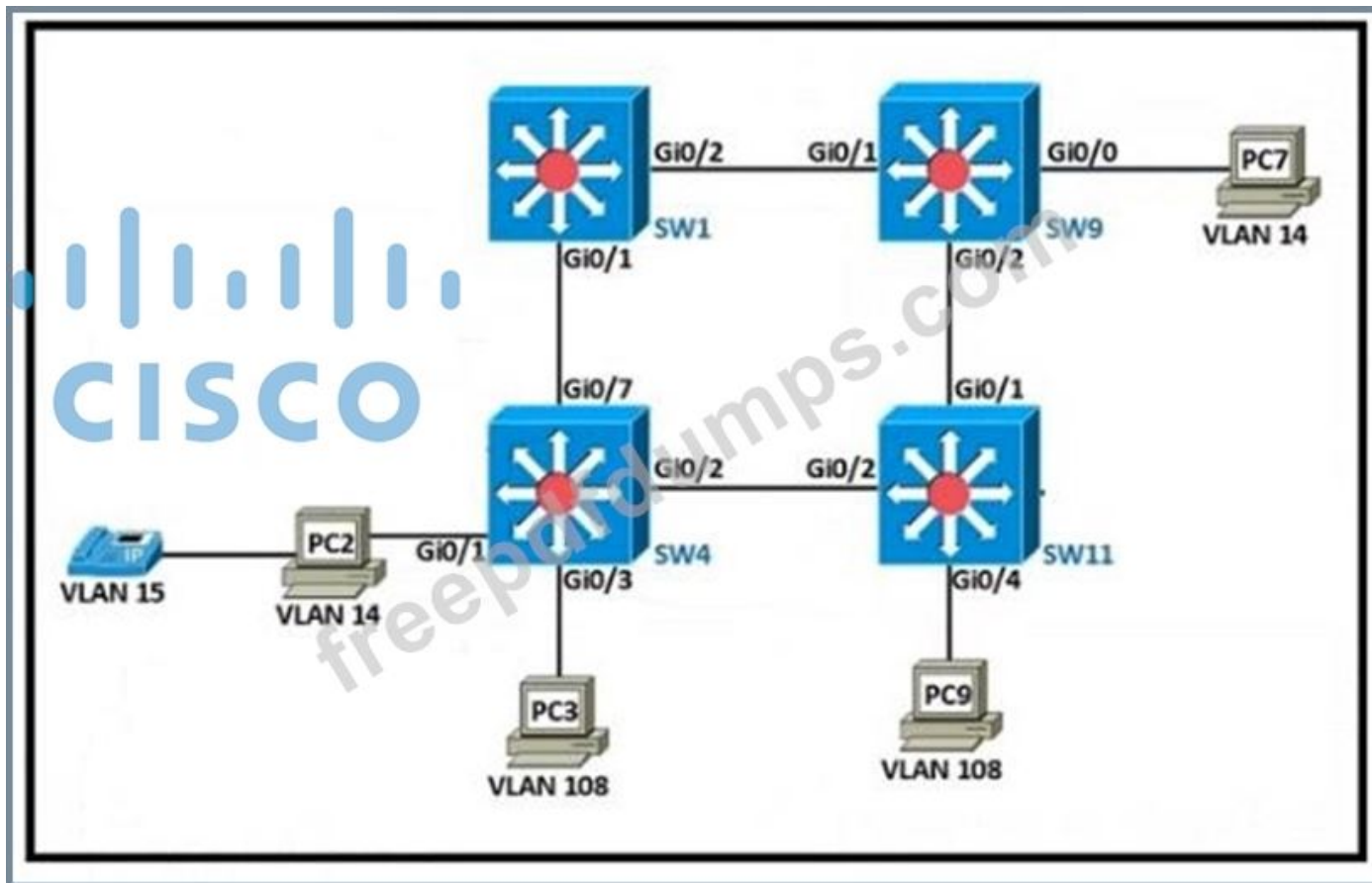
- A. Enable NTP authentication.
- B. Verify the time zone.
- C. Disable NTP broadcasts
- D. Specify the IP address of the NTP server
- E. Set the NTP server private key

**Answer: A,D ([LEAVE A REPLY](#))**

<https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4000/8-2glx/configuration/guide/ntp.html> To configure authentication, perform this task in privileged mode: Step 1: Configure an authentication key pair for NTP and specify whether the key will be trusted or untrusted. Step 2: Set the IP address of the NTP server and the public key. Step 3: Enable NTP client mode. Step 4: Enable NTP authentication. Step 5: Verify the NTP configuration.

**NEW QUESTION: 53**

Refer to the exhibit.



The following must be considered:

- \* SW1 is fully configured for all traffic
- \* The SW4 and SW9 links to SW1 have been configured
- \* The SW4 interface Gi0/1 and Gi0/0 on SW9 have been configured
- \* The remaining switches have had all VLANs added to their VLAN database Which configuration establishes a successful ping from PC2 to PC7 without interruption to traffic flow between other PCs?

A)

```

SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14

SW11#
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 108

```

B)

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14

SW11#
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 108
```

C)

```
SW4#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108

SW11#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14,108
!
interface Gi0/1
switchport mode trunk
switchport trunk allowed vlan 14,108

SW9#
interface Gi0/2
switchport mode trunk
switchport trunk allowed vlan 14
```

D)

```
SW4#
interface Gi0/2
switchport mode access
switchport access vlan 14

SW11#
interface Gi0/2
switchport mode access
switchport access vlan 14
!
interface Gi0/1
switchport mode access
switchport access vlan 14
!
interface Gi0/1
switchport mode trunk

SW9#
interface Gi0/2
switchport mode access
switchport access vlan 14
```

- A. Option C
- B. Option A
- C. Option B
- D. Option D

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 54**

A network engineer must configure an interface with IP address 10.10.10.145 and a subnet mask equivalent to 11111111.11111111.11111111.11111000. Which subnet mask must the engineer use?

- A. /29
- B. /30
- C. /28
- D. /27

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 55**

Refer to the exhibit.



Which command must be executed for Gi1.1 on SW1 to become a trunk port if Gi1/1 on SW2 is configured in desirable or trunk mode?

- A. switchport mode dynamic auto
- B. switchport mode dynamic desirable
- C. switchport mode dot1-tunnel
- D. switchport mode trunk

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 56**

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

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

Answer: D ([LEAVE A REPLY](#))

**NEW QUESTION: 57**

Refer to the exhibit.

```
(
 "SW1" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW2" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW3" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW4" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"]
)
```

The exhibit shows a configuration snippet for four switches (SW1, SW2, SW3, SW4). Each switch is configured with two interfaces: Ten-GigabitEthernet0/0 and Ten-GigabitEthernet0/1. A watermark 'freepdfmups.com' is visible across the code.

How many JSON objects are represented?

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

Answer: A ([LEAVE A REPLY](#))

#### NEW QUESTION: 58

Which command implies the use of SNMPv3?

- A. snmp-server community
- B. snmp-server enable traps
- C. snmp-server host
- D. snmp-server user

Answer: A ([LEAVE A REPLY](#))

#### NEW QUESTION: 59

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 physical cable fault
- C. high bandwidth usage
- D. a speed mismatch

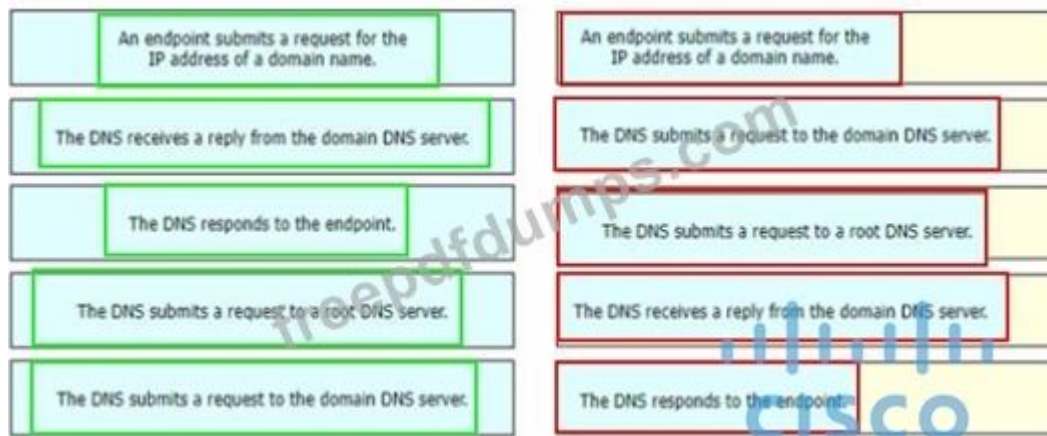
Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 60

Drag and drop the steps in a standard DNS lookup operation from the left into the order on the right.

|                                                                    |   |
|--------------------------------------------------------------------|---|
| An endpoint submits a request for the IP address of a domain name. | 1 |
| The DNS receives a reply from the domain DNS server.               | 2 |
| The DNS responds to the endpoint.                                  | 3 |
| The DNS submits a request to a root DNS server.                    | 4 |
| The DNS submits a request to the domain DNS server.                | 5 |

Answer:



### NEW QUESTION: 61

An organization secures its network with multi-factor authentication using an authenticator app on employee smartphone. How is the application secured in the case of a user's smartphone being lost or stolen?

- A. The application challenges a user by requiring an administrator password to reactivate when the smartphone is rebooted.
- B. The application requires an administrator password to reactivate after a configured Interval.
- C. The application requires the user to enter a PIN before it provides the second factor.
- D. The application verifies that the user is in a specific location before it provides the second factor.

Answer: C (**LEAVE A REPLY**)

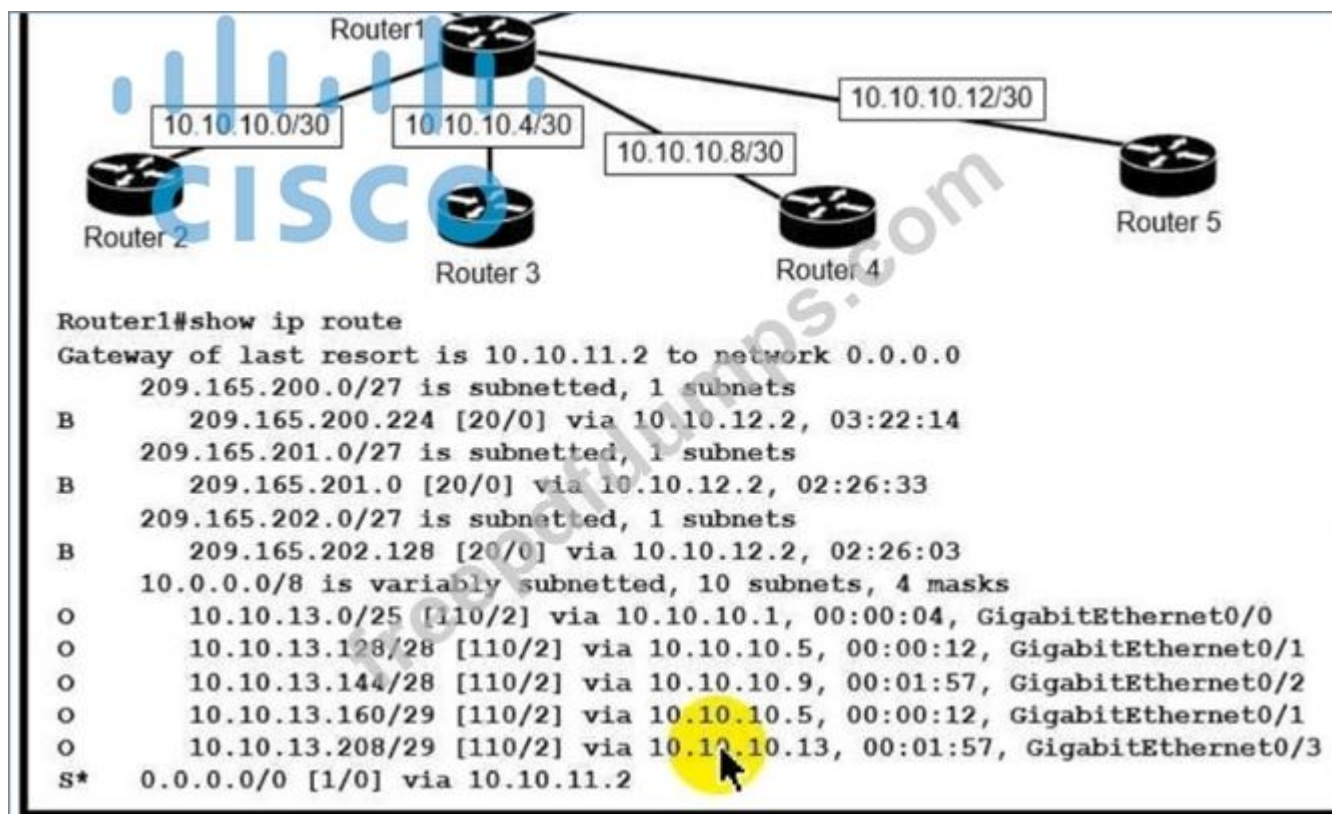
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### NEW QUESTION: 62

Refer to the exhibit.



Which next-hop IP address does Router 4 use for packets destined to host 10.10.13.158?

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

Answer: A (LEAVE A REPLY)

#### NEW QUESTION: 63

Refer to exhibit.

```

Router(config)#interface GigabitEthernet 1/0/1
Router(config-if)#ip address 192.168.16.143 255.255.255.240
Bad mask /28 for address 192.168.16.143

```

Which statement explains the configuration error message that is received?

- A. It is a broadcast IP address
- B. It is a network IP address.
- C. The router does not support /28 mask.
- D. It belongs to a private IP address range.

Answer: A (LEAVE A REPLY)

#### NEW QUESTION: 64

Router R1 must send all traffic without a matching routing-table entry to 192.168.1.1. Which configuration accomplishes this task?

```
R1#Config t
R1(config)#ip routing
R1(config)#ip route default-route 192.168.1.1

R1#Config t
R1(config)#ip routing
R1(config)#ip route 192.168.1.1 0.0.0.0 0.0.0.0

R1#Config t
R1(config)#ip routing
R1(config)#ip route 0.0.0.0 0.0.0.0 192.168.1.1

R1#Config t
R1(config)#ip routing
R1(config)#ip default-gateway 192.168.1.1
```

- A. Option D
- B. Option A
- C. Option B
- D. Option C

**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 65

What is the role of community strings in SNMP operations?

- A. It passes the Active Directory username and password that are required for device access
- B. It serves as a password to protect access to MIB objects.
- C. It translates alphanumeric MIB output values to numeric values.
- D. It serves as a sequence tag on SNMP traffic messages.

**Answer:** B ([LEAVE A REPLY](#))

#### NEW QUESTION: 66

A port security violation has occurred on a switch port due to the maximum MAC address count being exceeded. Which command must be configured to increment the security-violation count and forward an SNMP trap?

- A. switchport port-security violation access
- B. switchport port-security violation protect
- C. switchport port-security violation restrict
- D. switchport port-security violation shutdown

**Answer:** C ([LEAVE A REPLY](#))

[https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/port\\_sec.html](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/port_sec.html)

#### NEW QUESTION: 67

What is the difference regarding reliability and communication type between TCP and UDP?

- A. TCP is reliable and is a connection-oriented protocol; UDP is not reliable and is a connectionless protocol
- B. TCP is not reliable and is a connection-oriented protocol; UDP is reliable and is a connectionless protocol

- C. TCP is not reliable and is a connectionless protocol; UDP is reliable and is a connection-oriented protocol
- D. TCP is reliable and is a connectionless protocol; UDP is not reliable and is a connection-oriented protocol

Answer: (SHOW ANSWER)

#### NEW QUESTION: 68

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

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

Answer: B (LEAVE A REPLY)

#### NEW QUESTION: 69

Which global command encrypt all passwords in the running configuration?

- A. enable secret
- B. password-encrypt
- C. enable password-encryption
- D. service password-encryption

Answer: C (LEAVE A REPLY)

#### NEW QUESTION: 70

Refer to the exhibit.

```
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 1.0.0.0/8 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 10.0.1.3, 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, Serial0
O 10.0.1.4/32 [110/10] via 10.0.1.4, 00:39:08, Serial0
```

What is the next hop address for traffic that is destined to host 10.0.1.5?

- A. 10.0.1.50
- B. 10.0.1.3
- C. 10.0.1.4
- D. Loopback D

Answer: (SHOW ANSWER)

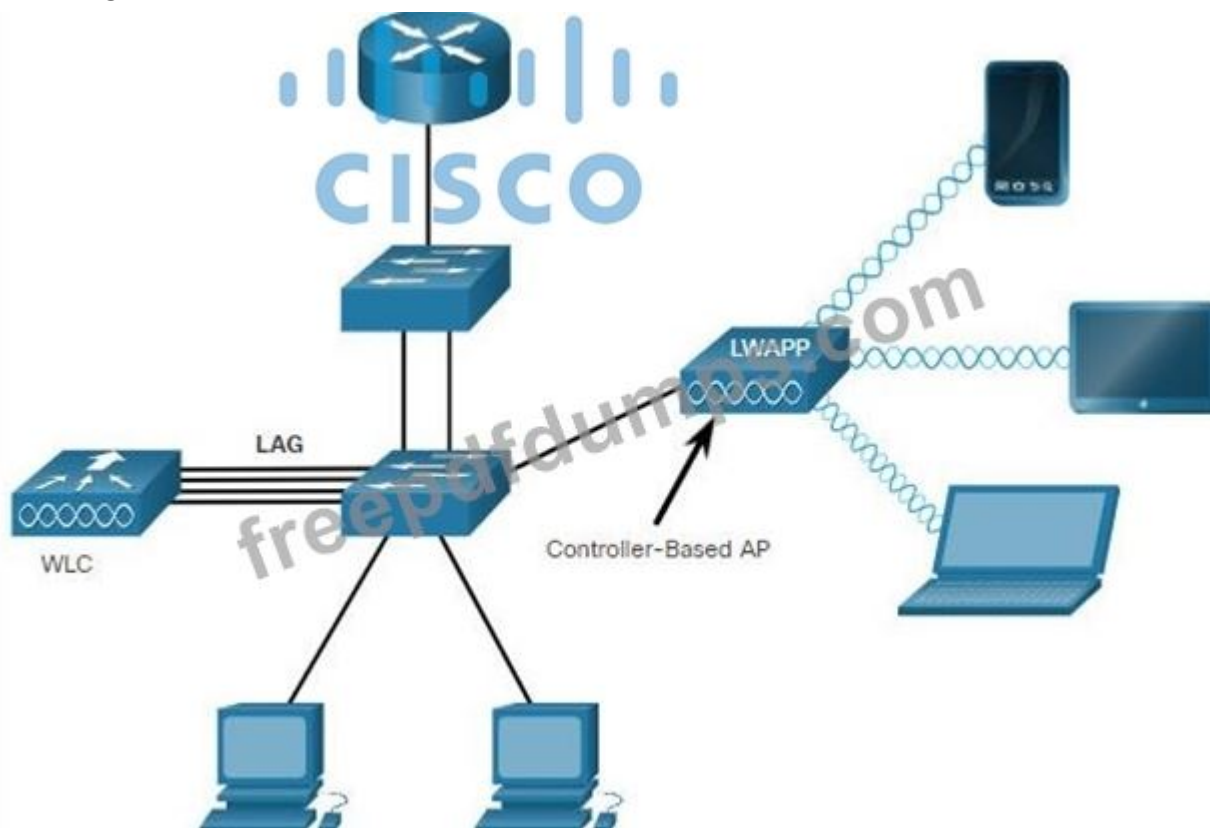
### NEW QUESTION: 71

What is a function of Wireless LAN Controller?

- A. register with a single access point that controls traffic between wired and wireless endpoints.
- B. use SSIDs to distinguish between wireless clients.
- C. send LWAPP packets to access points.
- D. monitor activity on wireless and wired LANs

**Answer: C (LEAVE A REPLY)**

Lightweight APs (LAPs) is devices require no initial configuration. LAPs use the Lightweight Access Point Protocol (LWAPP) to communicate with a WLAN controller (WLC), as shown in the below figure. Controller-based APs are useful in situations where many APs are required in the network. As more APs are added, each AP is automatically configured and managed by the WLC.



### NEW QUESTION: 72

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 are less prone to crosstalk and interference and STP cables are more prone to crosstalk and interference.
- C. STP cables are shielded and protect against electromagnetic interference and UTP lacks the same protection against electromagnetic interference.
- D. UTP cables provide faster and more reliable data transfer rates and STP cables are slower and less reliable.

**Answer: C (LEAVE A REPLY)**

### NEW QUESTION: 73

Drag and drop the facts about wireless architectures from the left onto the types of access point on the right. Not all options are used.

|                                                         |                          |
|---------------------------------------------------------|--------------------------|
| supports automatic deployment                           | Autonomous Access Point  |
| managed from a web-based dashboard                      |                          |
| accessible for management via Telnet, SSH, or a web GUI | Cloud-Based Access Point |
| configured and managed by a WLC                         |                          |
| requires a management IP address                        |                          |

Answer:

|                                                         |                                                         |
|---------------------------------------------------------|---------------------------------------------------------|
| supports automatic deployment                           | Autonomous Access Point                                 |
| managed from a web-based dashboard                      | accessible for management via Telnet, SSH, or a web GUI |
| accessible for management via Telnet, SSH, or a web GUI | configured and managed by a WLC                         |
| configured and managed by a WLC                         | Cloud-Based Access Point                                |
| requires a management IP address                        | requires a management IP address                        |
|                                                         | supports automatic deployment                           |

#### NEW QUESTION: 74

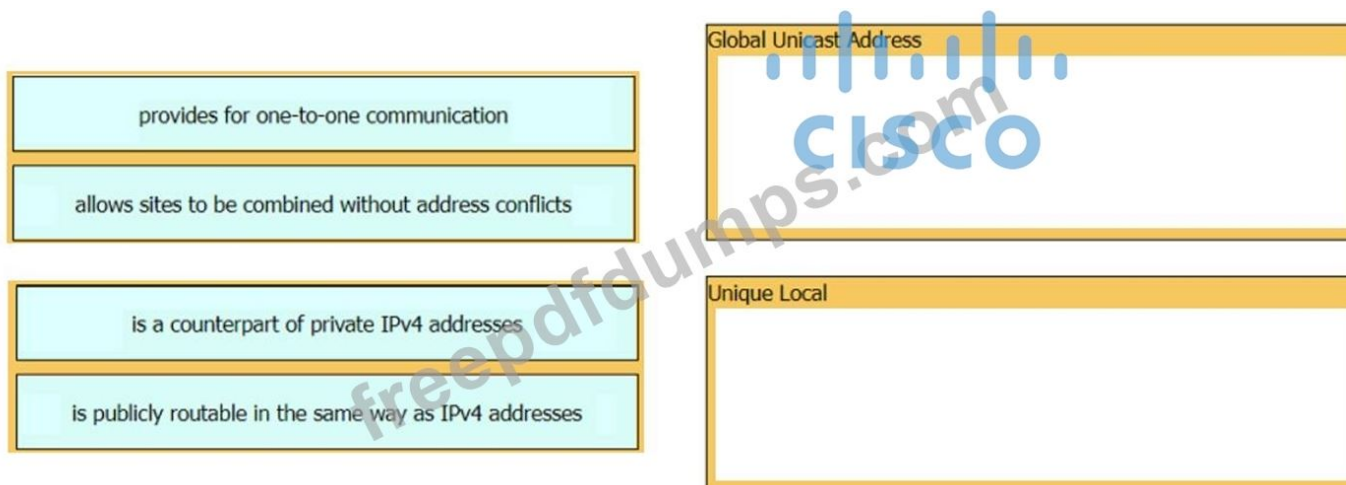
Which plane is centralized by an SDN controller?

- A. data-plane
- B. services-plane
- C. control-plane
- D. management-plane

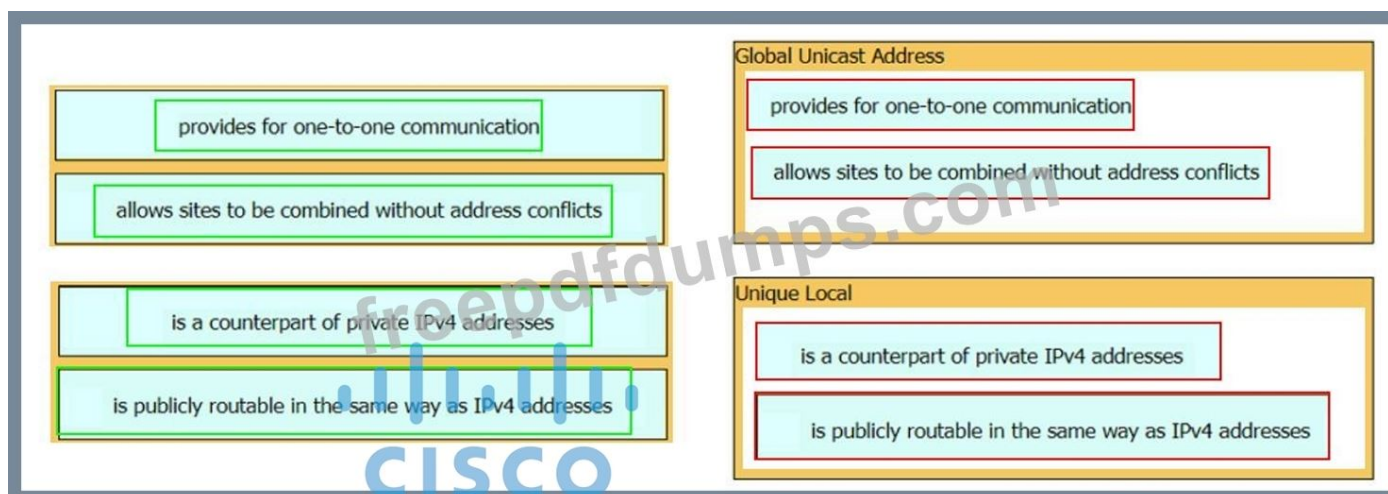
Answer: C ([LEAVE A REPLY](#))

#### NEW QUESTION: 75

Drag and drop the characteristic from the left onto the IPv6 address type on the right.



**Answer:**



### NEW QUESTION: 76

What is the purpose of using First Hop Redundancy Protocol in a specific subnet?

- A. Filter traffic based on destination IP addressing
- B. Sends the default route to the hosts on a network
- C. ensures a loop-free physical topology
- D. forwards multicast hello messages between routers

**Answer: (SHOW ANSWER)**

FHRP is layer 3 protocol whose purpose is to protect the default gateway by offering redundancy of the gateway in a subnet. This is achieved by allowing two or more routers to provide a backup for the first-hop IP router address. If a failure of an active router occurs, the backup router will take over the address. The routers negotiate their roles (Active/Standby) with each other by multicast hello messages to share the VIP (virtual IP address) between the FHRP routers. The terms Active/Standby vary between the different types of FHRP. The active router will act as the default gateway and the standby router acts as a backup the active router.

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**NEW QUESTION: 77**

Which type of address is shared by routers in a HSRP implementation and used by hosts on the subnet as their default gateway address?

- A. multicast address
- B. loopback IP address
- C. virtual IP address
- D. broadcast address

**Answer: C** ([LEAVE A REPLY](#))

**NEW QUESTION: 78**

What are two benefits of FHRPs? (Choose two.)

- A. They allow encrypted traffic.
- B. They are able to bundle multiple ports to increase bandwidth
- C. They prevent (oops in the Layer 2 network.
- D. They allow multiple devices to serve as a single virtual gateway for clients in the network
- E. They enable automatic failover of the default gateway.

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 79**

Which enhancement is implemented in WPA3?

- A. protects against brute force attacks
- B. employs PKI to identify access points
- C. uses TKIP
- D. applies 802.1x authentication

**Answer: A** ([LEAVE A REPLY](#))

**NEW QUESTION: 80**

How do TCP and UDP differ in the way they guarantee packet delivery?

- A. TCP uses retransmissions, acknowledgement and parity checks and UDP uses cyclic redundancy checks only.
- B. TCP uses checksum, acknowledgement, and retransmissions, and UDP uses checksums only.
- C. TCP uses two-dimensional parity checks, checksums, and cyclic redundancy checks and UDP uses retransmissions only.
- D. TCP uses checksum, parity checks, and retransmissions, and UDP uses acknowledgements only.

**Answer: B** ([LEAVE A REPLY](#))

**NEW QUESTION: 81**

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. inspected and dropped by the switch
- C. broadcast to all ports on the switch
- D. flooded to all ports except the origination port

**Answer: B (LEAVE A REPLY)**

#### NEW QUESTION: 82

A network engineer must configure the router R1 GigabitEthernet1/1 interface to connect to the router R2 GigabitEthernet1/1 interface. For the configuration to be applied the engineer must compress the address 2001:0db8:0000:0000:0500:000a:400F:583B. Which command must be issued on the interface?

- A. ipv6 address 2001:0db8::5: a: 4F 583B
- B. ipv6 address 2001::db8:0000::500:a:400F:583B
- C. ipv6 address 2001 db8:0::500:a:4F:583B
- D. ipv6 address 2001:db8::500:a:400F:583B

**Answer: D (LEAVE A REPLY)**

#### NEW QUESTION: 83

Refer to the exhibit.



The screenshot shows the Cisco configuration interface for 'Local Net Users > New'. The interface includes a navigation menu on the left with categories like AAA, RADIUS, TACACS+, LDAP, and MAC Filtering. The main configuration area contains the following fields:

- User Name: NA-User
- Password: [Redacted]
- Confirm Password: [Redacted]
- Guest User:
- Lifetime (seconds): 86400
- Guest User Role:
- WLAN Profile: Any WLAN
- Description: For NA WLAN Auth

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. Uncheck the Guest User check box
- C. Check the Guest User Role check box
- D. Clear the Lifetime (seconds) value

**Answer: A (LEAVE A REPLY)**

#### NEW QUESTION: 84

Which set of 2.4 GHz nonoverlapping wireless channels is standard in the United States?

- A. channels 2, 7, 9, and 11
- B. channels 1, 6, 11, and 14

C. channels 2, 7, and 11

D. channels 1, 6, and 11

**Answer:** [\(SHOW ANSWER\)](#)

In the United States, while channels 1-13 can be used for 2.4 GHz WiFi, only three channels are considered non-overlapping (channels 12 and 13 are allowed under low powered conditions, but for most cases are not used). For best results, it is highly recommended to keep the 2.4 GHz channels to 1, 6, and 11, as these channel settings will allow for virtually no overlap in the WiFi signal. Shown below is a channel graph from WiFi Scanner showing three access points configured for channels 1, 6, and 11. As you can see, the center of each signal is at 1, 6, and 11 with the actual signal extending over several channels to the left and right.

#### **NEW QUESTION: 85**

What makes Cisco DNA Center different from traditional network management applications and their management of networks?

A. It does not support high availability of management functions when operating in cluster mode

B. Its modular design allows someone to implement different versions to meet the specific needs of an organization

C. It abstracts policy from the actual device configuration

D. It omits supports auto-discovery of network elements in a greenfield deployment.

**Answer:** [C \(LEAVE A REPLY\)](#)

#### **NEW QUESTION: 86**

How does a switch process a frame received on Fa0/1 with the destination MAC address of 0e38.7363.657b when the table is missing the address?

A. It holds the frame until the MAC address timer expires and then drops the frame.

B. It floods the frame to all interfaces except Fa0/1.

C. It drops the frame immediately.

D. It forwards the frame back out of interface Fa0/1.

**Answer:** [\(SHOW ANSWER\)](#)

#### **NEW QUESTION: 87**

Which WPA mode uses PSK authentication?

A. Client

B. Personal

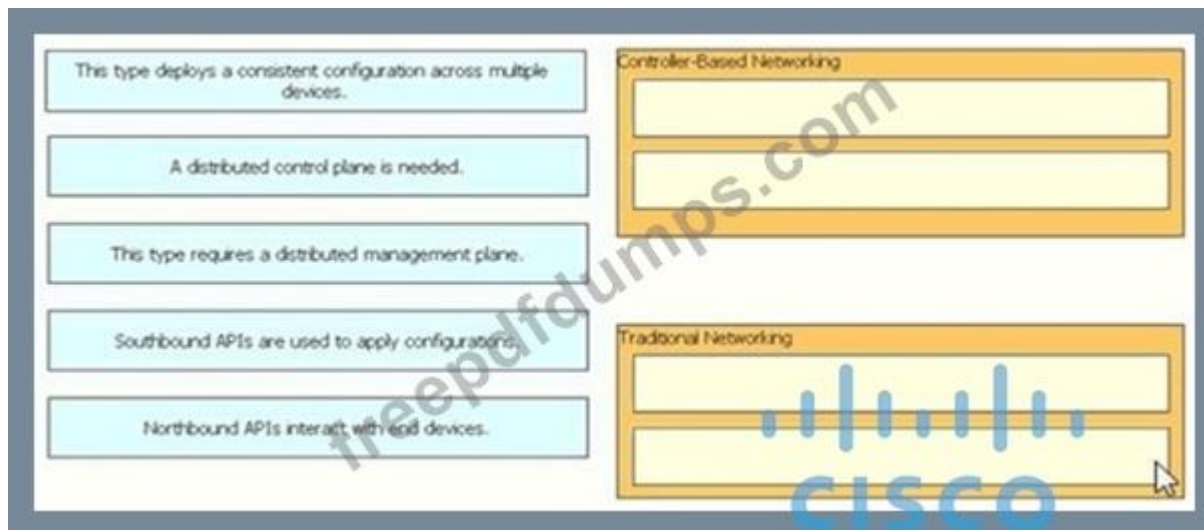
C. Enterprise

D. Local

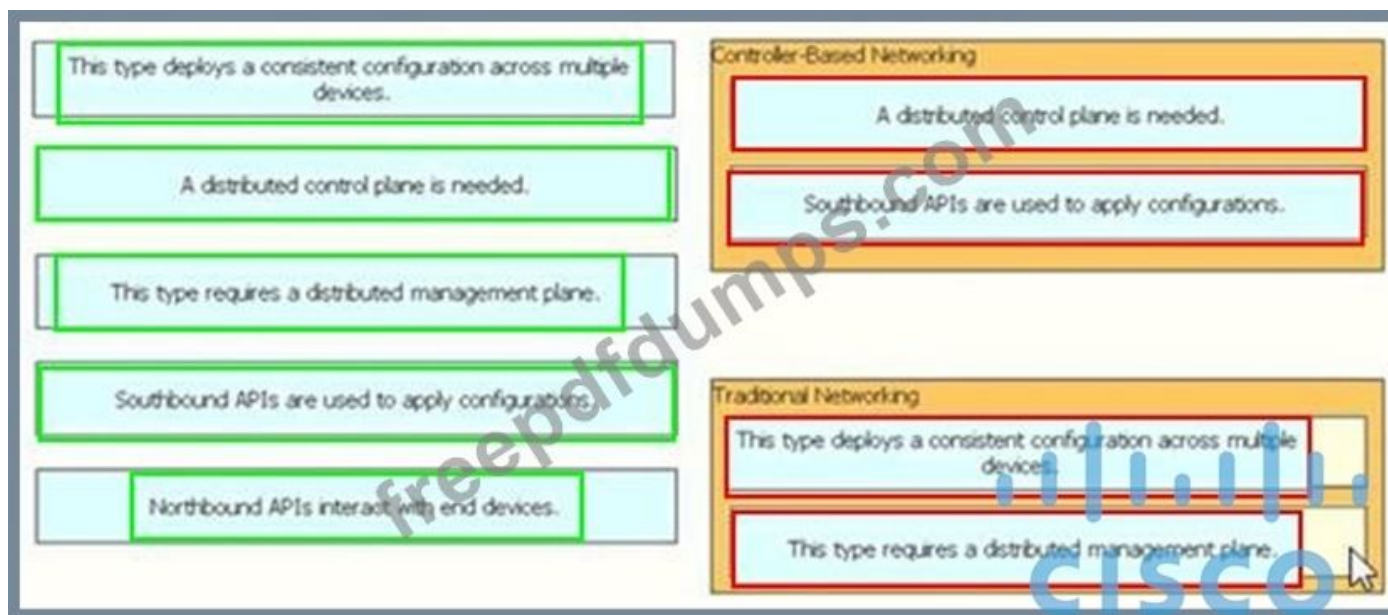
**Answer:** [C \(LEAVE A REPLY\)](#)

#### **NEW QUESTION: 88**

Drag and drop the statement about networking from the left into the Corresponding networking types on the right. Not all statements are used.



**Answer:**



**NEW QUESTION: 89**

What are two reasons that cause late collisions to increment on an Ethernet interface? (Choose two)

- A. when the sending device waits 15 seconds before sending the frame again
- B. when the cable length limits are exceeded
- C. when one side of the connection is configured for half-duplex
- D. when Carrier Sense Multiple Access/Collision Detection is used
- E. when a collision occurs after the 32nd byte of a frame has been transmitted

**Answer: B,C (LEAVE A REPLY)**

The usual possible causes are full-duplex/half-duplex mismatch, exceeded Ethernet cable length limits, or defective hardware such as incorrect cabling, non-compliant number of hubs in the network, or a bad NIC.

**NEW QUESTION: 90**

Refer to the exhibit.



An access list is required to permit traffic from any host on interface G0/0 and deny traffic from interface G0/1. Which access list must be applied?

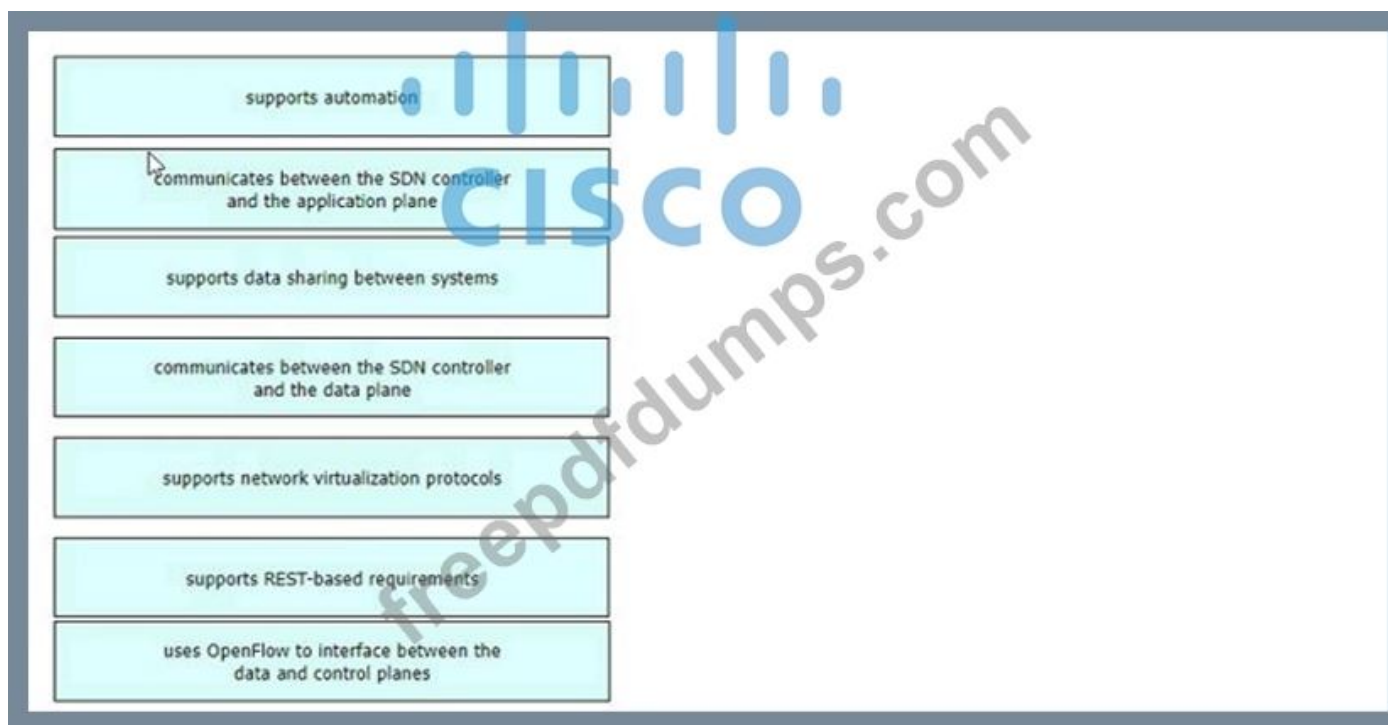


- A. Option C
- B. Option A
- C. Option B
- D. Option D

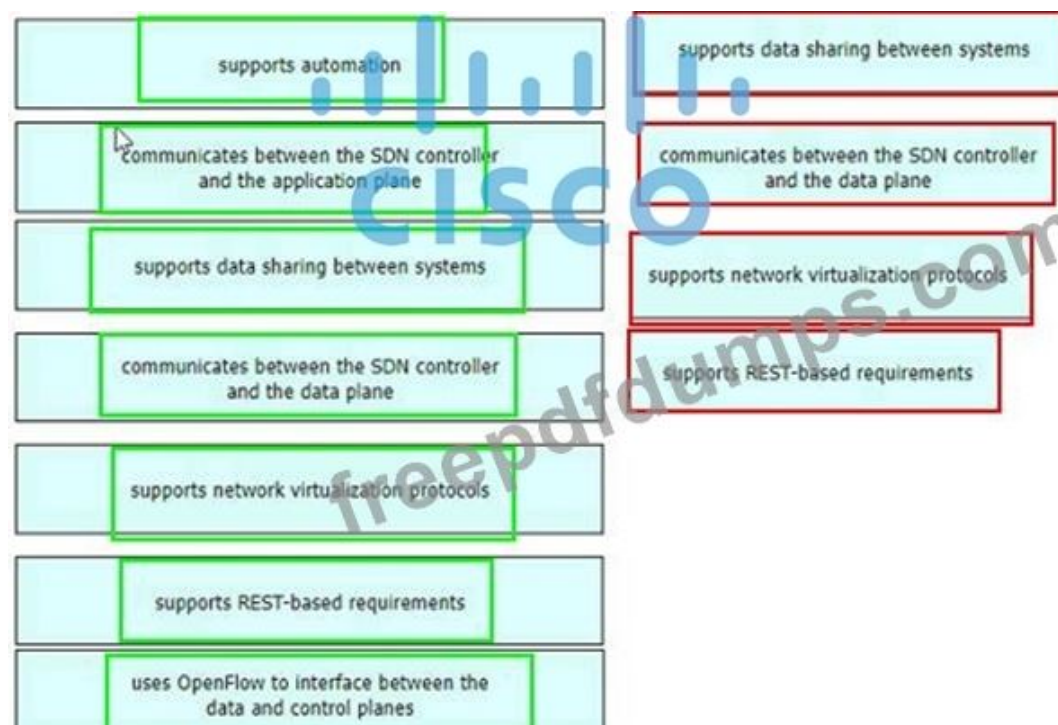
**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 91

Drag and drop the characteristics of northbound APIs from the left onto any position on the right. Not all characteristics are used.



Answer:



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**NEW QUESTION: 92**

Refer to the exhibit.

```
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
```

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

- A. SW1(config)#line vty 0 15 SW1(config-line)#transport input ssh
- B. SW1(config)#username NEW secret R3mote123
- C. SW1(config)# crypto key generate rsa
- D. SW1(config)# interface f0/1 SW1(config-if)# switchport mode trunk
- E. SW1(config)#enable secret ccnaTest123

**Answer: A,C (LEAVE A REPLY)**

### NEW QUESTION: 93

An engineer must configure neighbor discovery between the company router and an ISP

```
interface gigabitethernet0/0
description Circuit-ATT4203-21099
duplex full
speed 1000
media-type gbic
negotiation auto
lldp transmit
lldp receive
```

What is the next step to complete the configuration if the ISP uses a third-party router?

- A. Enable LLDP globally.
- B. Enable LLDP TLVs on the ISP router.
- C. Disable CDP on gi0/0.
- D. Disable auto-negotiation.

**Answer: A (LEAVE A REPLY)**

#### NEW QUESTION: 94

Which function is performed by the collapsed core layer in a two-tier architecture?

- A. marking interesting traffic for data polices
- B. applying security policies
- C. attaching users to the edge of the network
- D. enforcing routing policies

**Answer: D (LEAVE A REPLY)**

#### NEW QUESTION: 95

Refer to the exhibit.

The exhibit shows a network diagram with three routers: R1, R2, and R3. R1 is connected to R2 via Fa0/0 (10.10.10.2/24) and Fa0/1 (20.20.20.1/24). R2 is connected to R3 via Fa0/1 (20.20.20.2/24). Below the diagram are three terminal windows showing the output of 'show ip route' commands on R1, R2, and R3.

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

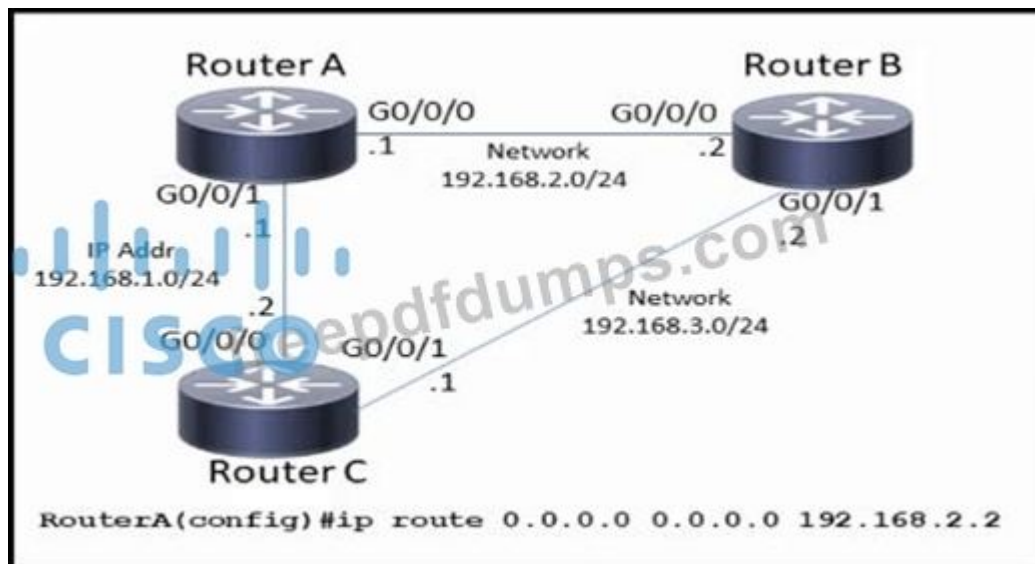
Refer to the exhibit Router R1 Fa0/0 is unable to ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

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

**Answer: B (LEAVE A REPLY)**

#### NEW QUESTION: 96

Refer to the exhibit.



Which command must be issued to enable a floating static default route on router A?

- A. ip route 0.0.0.0 0.0.0.0 192.168.1.2 10
- B. ip route 0.0.0.0 0.0.0.0 192.168.2.1 10
- C. ip route 0.0.0.0 0.0.0.0 192.168.1.2
- D. ip default-gateway 192.168.2.1

**Answer: A** ([LEAVE A REPLY](#))

#### NEW QUESTION: 97

Which IPv6 address type provides communication between subnets and is unable to route on the Internet?

- A. multicast
- B. global unicast
- C. unique local
- D. link-local

**Answer: (SHOW ANSWER)**

#### NEW QUESTION: 98

Refer to the exhibit.

```

R1# show ip route
....
D 172.16.32.0/27 [90/2888597172] via 20.1.1.1
O 172.16.32.0/19 [110/292094] via 20.1.1.10
R 172.16.32.0/24 [120/2] via 20.1.1.3

```

Router R1 is running three different routing protocols. Which route characteristic is used by the router to forward the packet that it receives for destination IP 172.16.32.1?

- A. longest prefix
- B. metric
- C. cost
- D. administrative distance

**Answer: (SHOW ANSWER)**

<https://learningnetwork.cisco.com/s/question/0D53i00000KszSICAJ/administrative-distance-vs-longest-match-rule>

**NEW QUESTION: 99**

What are two benefits of using the PortFast feature? (Choose two )

- A. Enabled interfaces wait 50 seconds before they move to the forwarding state
- B. Enabled interfaces never generate topology change notifications.
- C. Enabled interfaces that move to the learning state generate switch topology change notifications
- D. Enabled interfaces come up and move to the forwarding state immediately
- E. Enabled interfaces are automatically placed in listening state

**Answer: D,E (LEAVE A REPLY)**

**NEW QUESTION: 100**

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

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

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 101**

By default, how long will the switch continue to know a workstation MAC address after the workstation stops sending traffic?

- A. 600 seconds
- B. 900 seconds
- C. 300 seconds
- D. 200 seconds

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 102**

What is a characteristic of cloud-based network topology?

- A. wireless connections provide the sole access method to services
- B. physical workstations are configured to share resources
- C. services are provided by a public, private, or hybrid deployment
- D. onsite network services are provided with physical Layer 2 and Layer 3 components

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 103**

Which unified access point mode continues to serve wireless clients after losing connectivity to the Cisco Wireless LAN Controller?

- A. flexconnect
- B. sniffer
- C. mesh
- D. local

Answer: A ([LEAVE A REPLY](#))

**NEW QUESTION: 104**

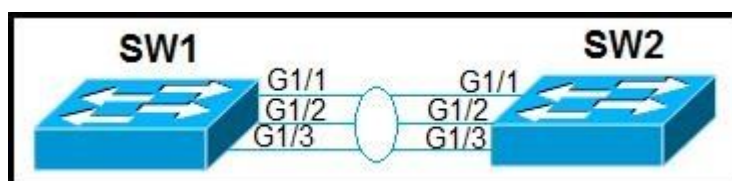
Which QoS queuing method discards or marks packets that exceed the desired bit rate of traffic flow?

- A. shaping
- B. LLQ
- C. policing
- D. CBWFQ

Answer: C ([LEAVE A REPLY](#))

**NEW QUESTION: 105**

Refer to the exhibit.



Which configuration establishes a Layer 2 LACP EtherChannel when applied to both switches?

- A. Interface range G1/1 - 1/3 switchport mode access channel-group 1 mode passive no shutdown
- B. Interface range G1/1 - 1/3 switchport mode access channel-group 1 mode on no shutdown
- C. Interface range G1/1 - 1/3 switchport mode trunk channel-group 1 mode desirable no shutdown
- D. Interface range G1/1 - 1/3 switchport mode trunk channel-group 1 mode active no shutdown

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 106**

Refer to the exhibit.

```
Switch2# show lldp
Global LLDP Information
 Status: ACTIVE
 LLDP advertisements are sent every 30 seconds
 LLDP hold time advertised is 120 seconds
 LLDP interface reinitialization delay is 2 seconds
```

A network engineer must update the configuration on Switch2 so that it sends LLDP packets every minute and the information sent via LLDP is refreshed every 3 minutes Which configuration must the engineer apply?

- A. Switch2(config)#lldp timer 60
- B. Switch2(config)#lldp tlv-select 180

- Switch2(config)#lldp timer 1
- B. Switch2(config)#lldp tlv-select 3
- Switch2(config)#lldp timer 60
- C. Switch2(config)#lldp holdtime 180
- Switch2(config)#lldp timer 1
- D. Switch2(config)#lldp holdtime 3

Answer: C ([LEAVE A REPLY](#))

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#### NEW QUESTION: 107

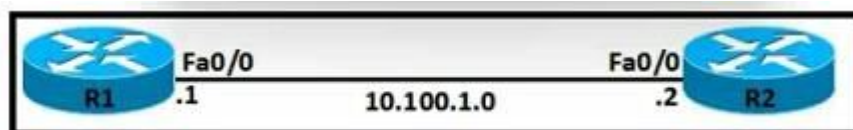
Which two transport layer protocols carry syslog messages? (Choose two.)

- A. ARP
- B. UDP
- C. IP
- D. RTP
- E. TCP

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 108

Refer to the exhibit.



An OSPF neighbor relationship must be configured using these guidelines:

- \* R1 is only permitted to establish a neighbor with R2
- \* R1 will never participate in DR elections
- \* R1 will use a router-id of 101.1.1.

Which configuration must be used?

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 100
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 ospf router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

A.

```
interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 100
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 ospf router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

B.

```
interface Loopback0
 ip address 10.1.1.1 255.255.255.255

interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in

router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 88 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 88 any any
access-list 102 permit ip any any
```

C.

```
interface FastEthernet0/0
 ip address 10.100.1.1 255.255.255.252
 ip ospf priority 0
 ip access-group 102 in
router ospf 10
 log-adjacency-changes
 network 10.1.1.1 0.0.0.0 area 0
 network 10.100.1.0 0.0.0.3 area 0
 router-id 10.1.1.1

access-list 102 permit 89 host 10.100.1.2 host 224.0.0.5
access-list 102 deny 89 any any
access-list 102 permit ip any any
```

D.

Answer: B ([LEAVE A REPLY](#))

#### NEW QUESTION: 109

Where does a switch maintain DHCP snooping information?

- A. in the MAC address table
- B. in the binding database
- C. in the frame forwarding database
- D. in the CAM table

Answer: B ([LEAVE A REPLY](#))

#### NEW QUESTION: 110

What is a function of the Cisco DNA Center Overall Health Dashboard?

- A. It provides detailed activity logging for the 10 devices and users on the network.
- B. It summarizes daily and weekly CPU usage for servers and workstations in the network.
- C. It summarizes the operational status of each wireless device on the network.
- D. It provides a summary of the top 10 global issues.

Answer: D ([LEAVE A REPLY](#))

#### NEW QUESTION: 111

Refer to the exhibit.

```

TenGigabitEthernet0/0/0 is up, line protocol is up
Hardware is BUILT-IN-2T+6X1GE, address is 74a0.2f7a.0123 (bia 74a0.2f7a.0123)
Description: Uplink
Internet address is 10.1.1.1/24
MTU 1500 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
 reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not supported
Full Duplex, 10000Mbps, link type is force-up, media type is unknown media type
output flow-control is on, input flow-control is on
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:05:40, output hang never
Last clearing of "show interface" counters never
Input queue: 0/375/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 6160000 bits/sec, 1113 packets/sec
5 minute output rate 11213000 bits/sec, 1553 packets/sec
 12662416065 packets input, 12607032232894 bytes, 0 no buffer
 Received 14117163 broadcasts (0 IP multicasts)
 0 runts, 0 giants, 0 throttles
 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
 0 watchdog, 26271385 multicast, 0 pause input
 7907779058 packets output, 5073750426832 bytes, 0 underruns
 0 output errors, 8662416065 collisions, 1 interface resets
 0 unknown protocol drops
 0 babbles, 0 late collision, 0 deferred
 0 lost carrier, 0 no carrier, 0 pause output
 0 output buffer failures, 0 output buffers swapped out
 1 carrier transitions

```

Traffic that is flowing over interface TenGigabitEthernet0/0 experiences slow transfer speeds. What is the reason for the issue?

- A. queuing drops
- B. a speed conflict
- C. a duplex incompatibility
- D. heavy traffic congestion

**Answer: B (LEAVE A REPLY)**

#### NEW QUESTION: 112

Which device separates networks by security domains?

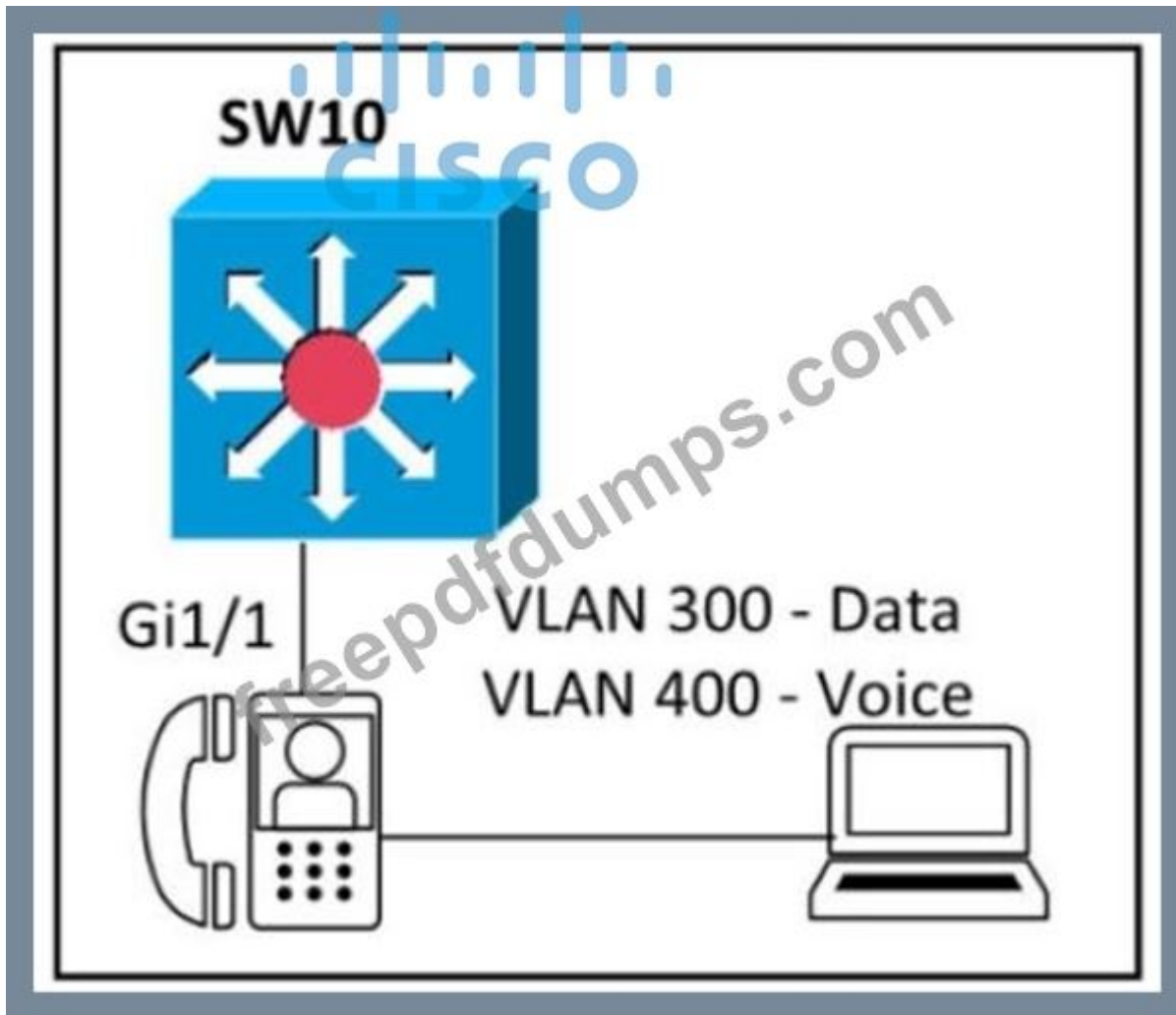
- A. firewall
- B. access point
- C. intrusion protection system
- D. wireless controller

**Answer: A (LEAVE A REPLY)**

Firewalls are devices that are used to separate networks into different security domains. They act as a barrier between two networks and control the flow of traffic between them. Firewalls use a set of rules to determine what types of traffic are allowed to pass through and what is blocked. This helps protect a network from malicious traffic and unauthorized access. Additionally, firewalls can be configured to log traffic and provide additional security measures such as packet filtering and stateful inspection.

#### NEW QUESTION: 113

Refer to the exhibit.



An engineer must configure GigabitEthernet1/1 to accommodate voice and data traffic. Which configuration accomplishes this task?

```
interface gigabitethernet1/1
switchport mode access
switchport access vlan 300
switchport voice vlan 400
```

```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport voice vlan 400
```

```
interface gigabitethernet1/1
switchport mode trunk
switchport trunk vlan 300
switchport trunk vlan 400
```

```
interface gigabitethernet1/1
switchport mode access
switchport voice vlan 300
```

- A. Option B
- B. Option A
- C. Option C
- D. Option D

**Answer: B** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 114**

What is the function of a hub-and-spoke WAN topology?

- A. supports application optimization
- B. supports Layer 2 VPNs
- C. provides direct connections between subscribers
- D. allows access restrictions to be implemented between subscriber sites.

**Answer: (**[SHOW ANSWER](#)**)**

#### **NEW QUESTION: 115**

What are two recommendations for protecting network ports from being exploited when located in an office space outside of an IT closet? (Choose two.)

- A. shut down unused ports
- B. enable the PortFast feature on ports
- C. implement port-based authentication
- D. configure ports to a fixed speed
- E. configure static ARP entries

Answer: A,C ([LEAVE A REPLY](#))

#### NEW QUESTION: 116

Which port type does a lightweight AP use to connect to the wired network when it is configured in local mode?

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 117

Refer to the exhibit.

```
R1# show ip route | begin gateway
Gateway of last resort is not set
 172.16.0.0/16 is variably subnetted, 5 subnets, 5 masks
O 172.16.2.128/25 [110/3184437] via 207.165.200.250, 00:00:25, Serial0/0/0
O 172.16.3.64/27 [110/3184437] via 207.165.200.250, 00:00:25, Serial0/0/0
O 172.16.3.128/28 [110/3184437] via 207.165.200.250, 00:00:25, Serial0/0/0
O 172.16.3.192/29 [110/3184437] via 207.165.200.250, 00:00:25, Serial0/0/0
O 172.16.4.0/23 [110/3184437] via 207.165.200.250, 00:00:25, Serial0/0/0
 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
```

Drag and drop the learned prefixes from the left onto the subnet masks on the right

|              |                 |
|--------------|-----------------|
| 172.16.3.128 | 255.255.254.0   |
| 172.16.3.64  | 255.255.255.128 |
| 172.16.2.128 | 255.255.255.224 |
| 172.16.3.192 | 255.255.255.240 |
| 172.16.4.0   | 255.255.255.248 |

Answer:

|              |              |                 |
|--------------|--------------|-----------------|
| 172.16.3.128 | 172.16.4.0   | 255.255.254.0   |
| 172.16.3.64  | 172.16.2.128 | 255.255.255.128 |
| 172.16.2.128 | 172.16.3.64  | 255.255.255.224 |
| 172.16.3.192 | 172.16.3.128 | 255.255.255.240 |
| 172.16.4.0   | 172.16.3.192 | 255.255.255.248 |

### NEW QUESTION: 118

Drag and drop the Rapid PVST+ forwarding state actions from the left to the right. Not all actions are used.

|                                                                           |        |
|---------------------------------------------------------------------------|--------|
| BPDUs received are forwarded to the system module.                        | action |
| BPDUs received from the system module are processed and transmitted.      | action |
| Frames received from the attached segment are discarded.                  | action |
| Frames received from the attached segment are processed.                  | action |
| Switched frames received from other ports are advanced.                   |        |
| The port in the forwarding state responds to network management messages. |        |

### Answer:

|                                                                           |                                                                           |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| BPDUs received are forwarded to the system module.                        | BPDUs received are forwarded to the system module.                        |
| BPDUs received from the system module are processed and transmitted.      | Frames received from the attached segment are discarded.                  |
| Frames received from the attached segment are discarded.                  | Switched frames received from other ports are advanced.                   |
| Frames received from the attached segment are processed.                  | The port in the forwarding state responds to network management messages. |
| Switched frames received from other ports are advanced.                   |                                                                           |
| The port in the forwarding state responds to network management messages. |                                                                           |

### NEW QUESTION: 119

Refer to the exhibit.

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
```

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

**Answer: (SHOW ANSWER)**

#### NEW QUESTION: 120

Which protocol prompts the Wireless LAN Controller to generate its own local web administration SSL certificate for GUI access?

- A. HTTPS
- B. RADIUS
- C. TACACS+
- D. HTTP

**Answer: A (LEAVE A REPLY)**

You can protect communication with the GUI by enabling HTTPS. HTTPS protects HTTP browser sessions by using the Secure Sockets Layer (SSL) protocol. When you enable HTTPS, the controller generates its own local web administration SSL certificate and automatically applies it to the GUI. You also have the option of downloading an externally generated certificate.

Reference: [https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b\\_cg80/b\\_cg80\\_chapter\\_011.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b_cg80/b_cg80_chapter_011.html)

#### NEW QUESTION: 121

What are two reasons for an engineer to configure a floating static route? (Choose two)

- A. to control the return path of traffic that is sent from the router
- B. to automatically route traffic on a secondary path when the primary path goes down
- C. to enable fallback static routing when the dynamic routing protocol fails
- D. to route traffic differently based on the source IP of the packet
- E. to support load balancing via static routing

**Answer: B,C (LEAVE A REPLY)**

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#### NEW QUESTION: 122

What are two roles of the Dynamic Host Configuration Protocol (DHCP)? (Choose two)

- A. The DHCP server leases client IP addresses dynamically.
- B. The DHCP server offers the ability to exclude specific IP addresses from a pool of IP addresses
- C. The DHCP client can request up to four DNS server addresses
- D. The DHCP server assigns IP addresses without requiring the client to renew them
- E. The DHCP client maintains a pool of IP addresses it can assign.

Answer: A,B (LEAVE A REPLY)

#### NEW QUESTION: 123

Drag and drop the Ansible features from the left to the right Not all features are used.

|                                                         |         |
|---------------------------------------------------------|---------|
| executes modules via SSH by default                     | feature |
| uses the YAML language                                  | feature |
| uses agents to manage hosts                             | feature |
| pushes configurations to the client                     | feature |
| requires clients to pull configurations from the server |         |
| operates without agents                                 |         |

Answer:

|                                                         |                                     |
|---------------------------------------------------------|-------------------------------------|
| executes modules via SSH by default                     | operates without agents feature     |
| uses the YAML language                                  | executes modules via SSH by default |
| uses agents to manage hosts                             | uses agents to manage hosts         |
| pushes configurations to the client                     | pushes configurations to the client |
| requires clients to pull configurations from the server |                                     |
| operates without agents                                 |                                     |

**NEW QUESTION: 124**

Drag and drop the characteristic from the left onto the IPv6 address type on the right.

|                                                        |                        |
|--------------------------------------------------------|------------------------|
| provides for one-to-one communication                  | Global Unicast Address |
| is a counterpart of private IPv4 addresses             |                        |
| is publicly routable in the same way as IPv4 addresses | Unique Local           |
| allows sites to be combined without address conflicts  |                        |

**Answer:**

|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| provides for one-to-one communication                  | Global Unicast Address                                 |
| is a counterpart of private IPv4 addresses             | is publicly routable in the same way as IPv4 addresses |
| is publicly routable in the same way as IPv4 addresses | allows sites to be combined without address conflicts  |
| allows sites to be combined without address conflicts  | Unique Local                                           |
|                                                        | provides for one-to-one communication                  |
|                                                        | is a counterpart of private IPv4 addresses             |

**NEW QUESTION: 125**

When the active router in an HSRP group fails, what router assumes the role and forwards packets?

- A. backup
- B. forwarding
- C. standby
- D. listening

Answer: C ([LEAVE A REPLY](#))

**NEW QUESTION: 126**

Drag and drop the AAA functions from the left onto the correct AAA services on the right

The interface consists of two columns of boxes. The left column contains six light blue boxes with the following text from top to bottom:

- records user activities
- restricts the services that are available to a user
- identifies the user
- controls the actions that a user can perform
- provides analytical information for the network administrator
- verifies the password associated with a user

The right column contains three yellow boxes with the following labels from top to bottom:

- Authentication
- Authorization
- Accounting

A large 'CISCO' watermark is overlaid on the interface.

Answer:



#### NEW QUESTION: 127

What must be considered when using 802.11a?

- A. It is compatible with 802.11b- and 802.11g-compliant wireless devices
- B. It is used in place of 802.11b/g when many nonoverlapping channels are required
- C. It is susceptible to interference from 2.4 GHz devices such as microwave ovens.
- D. It is chosen over 802.11b/g when a lower-cost solution is necessary

Answer: (SHOW ANSWER)

#### NEW QUESTION: 128

What is a requirement for nonoverlapping Wi-Fi channels?

- A. unique SSIDs
- B. different transmission speeds
- C. discontinuous frequency ranges
- D. different security settings

Answer: C (LEAVE A REPLY)

#### NEW QUESTION: 129

Which Layer 2 switch function encapsulates packets for different VLANs so that the packets traverse the same port and maintain traffic separation between the VLANs?

- A. VLAN DSCP
- B. VLAN numbering
- C. VLAN tagging
- D. VLAN marking

Answer: C ([LEAVE A REPLY](#))

**NEW QUESTION: 130**

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

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

Answer: A,B ([LEAVE A REPLY](#))

**NEW QUESTION: 131**

What is the primary purpose of private address space?

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

Answer: B ([LEAVE A REPLY](#))

**NEW QUESTION: 132**

Which purpose does a northbound API serve in a controller-based networking architecture?

- A. reports device errors to a controller
- B. facilitates communication between the controller and the applications
- C. generates statistics for network hardware and traffic
- D. communicates between the controller and the physical network hardware

Answer: B ([LEAVE A REPLY](#))

**NEW QUESTION: 133**

Refer to Exhibit.



Refer to the exhibit. An engineer must translate the PC1 IP address to 10.199.77.100 and permit PC1 to ping the loopback 0 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 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
!
ip nat inside source static 10.199.77.100 172.16.29.78

R2#
ip route 10.199.77.100 255.255.255.255 10.139.91.1
```



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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 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
```

c)

```
○ 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 172.16.29.78 255.255.255.255 10.139.91.1
```



D)

```

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 172.16.29.78 255.255.255.255 10.139.91.1

```

- A. Option B
- B. Option D
- C. Option A
- D. Option C

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 134

What must be considered for a locally switched FlexConnect AP if the VLANs that are used by the AP and client access are different?

- A. The native VLAN must match the management VLAN of the AP
- B. The switch port mode must be set to trunk
- C. IEEE 802.10 trunking must be disabled on the switch port.
- D. The APs must be connected to the switch with multiple links in LAG mode

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 135

What is a zero-day exploit?

- A. It is when a new network vulnerability is discovered before a fix is available

- B. It is when the perpetrator inserts itself in a conversation between two parties and captures or alters data.
- C. It is when the network is saturated with malicious traffic that overloads resources and bandwidth
- D. It is when an attacker inserts malicious code into a SOL server.

**Answer: A (LEAVE A REPLY)**

<https://www.kaspersky.com/resource-center/definitions/zero-day-exploit>

#### NEW QUESTION: 136

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

**Answer: (SHOW ANSWER)**

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#### NEW QUESTION: 137

Refer to the exhibit. A multivendor network exists and the company is implementing VoIP over the network for the first time.

- A. 

```
SW1(config)#lldp enable
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp run
```
- B. 

```
SW1(config)#lldp run
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp enable
```
- C. 

```
SW1(config)#no cdp enable
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#cdp run
```
- D. 

```
SW1(config)#no cdp run
SW1(config)#interface gigabitethernet1/0/1
SW1(config-if)#lldp transmit
SW1(config-if)#lldp receive
```

**Answer: A (LEAVE A REPLY)**

#### NEW QUESTION: 138

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

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

**Answer: A** ([LEAVE A REPLY](#))

#### NEW QUESTION: 139

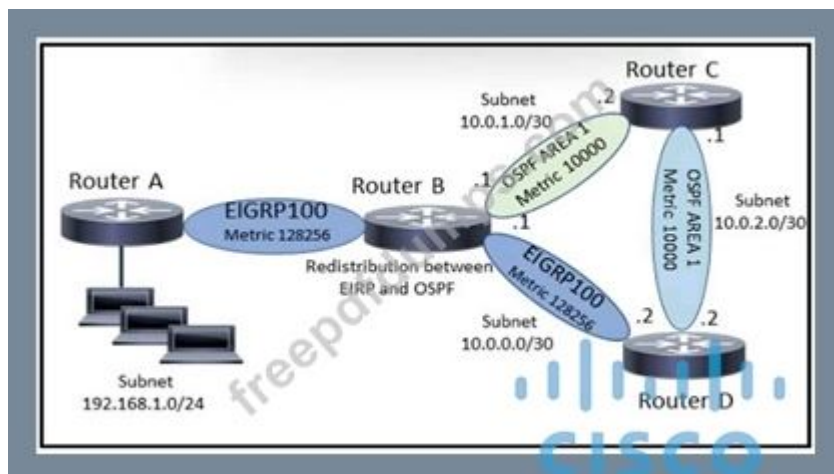
What are two characteristics of a controller-based network? (Choose two)

- A. It uses Telnet to report system issues.
- B. The administrator can make configuration updates from the CLI
- C. It moves the control plane to a central point.
- D. It uses northbound and southbound APIs to communicate between architectural layers
- E. It decentralizes the control plane, which allows each device to make its own forwarding decisions

**Answer: (SHOW ANSWER)**

#### NEW QUESTION: 140

Refer to the exhibit.



A network engineer executes the show ip route command on router D.

What is the next hop to network 192.168.1.0/24 and why?

- A. The next hop is 10.0.0.1 because it has a better administrative distance
- B. The next hop is 10.0.0.1 because it has a higher metric.
- C. The next hop is 10.0.2.1 because it is a link-state routing protocol
- D. The next hop is 10.0.2.1 because it uses distance vector routing

**Answer: C** ([LEAVE A REPLY](#))

#### NEW QUESTION: 141

What is a characteristic of a SOHO network?

- A. connects each switch to every other switch in the network
- B. enables multiple users to share a single broadband connection
- C. includes at least three tiers of devices to provide load balancing and redundancy
- D. provides high throughput access for 1000 or more users

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 142**

Which access point mode relies on a centralized controller for management, roaming, and SSID configuration?

- A. autonomous mode
- B. bridge mode
- C. lightweight mode
- D. repeater mode

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 143**

Which statement about Link Aggregation when implemented on a Cisco Wireless LAN Controller is true?

- A. One functional physical port is needed to pass client traffic
- B. When enabled the WLC bandwidth drops to 500 Mbps
- C. The EtherChannel must be configured in "mode active"
- D. To pass client traffic two or more ports must be configured.

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 144**

Why does a switch flood a frame to all ports?

- A. The destination MAC address of the frame is unknown.
- B. The source MAC address of the frame is unknown
- C. The source and destination MAC addresses of the frame are the same
- D. The frame has zero destination MAC addresses.

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 145**

Refer to me exhibit.

```
Router1#show ip route
Gateway of last resort is not set
 209.165.200.0/27 is subnetted, 1 subnets
 B 209.165.200.224 [20/0] via 10.10.12.2, 00:09:57
 10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
 C 10.10.10.0/28 is directly connected, GigabitEthernet0/0
 C 10.10.11.0/30 is directly connected, FastEthernet2/0
 O 10.10.13.0/24 [110/2] via 10.10.10.1, 00:08:34, GigabitEthernet0/0
 C 10.10.12.0/30 is directly connected, GigabitEthernet0/1
```

Which action is taken by the router when a packet is sourced from 10.10.10.2 and destined for 10.10.10.16?

- A. It Queues the packets waiting for the route to be learned.
- B. It discards the packets.
- C. It uses a route that is similar to the destination address
- D. It floods packets to all learned next hops.

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 146**

What is a function of a Next-Generation IPS?

- A. integrates with a RADIUS server to enforce Layer 2 device authentication rules
- B. serves as a controller within a controller-based network
- C. correlates user activity with network events
- D. makes forwarding decisions based on learned MAC addresses

Answer: (SHOW ANSWER)

**NEW QUESTION: 147**

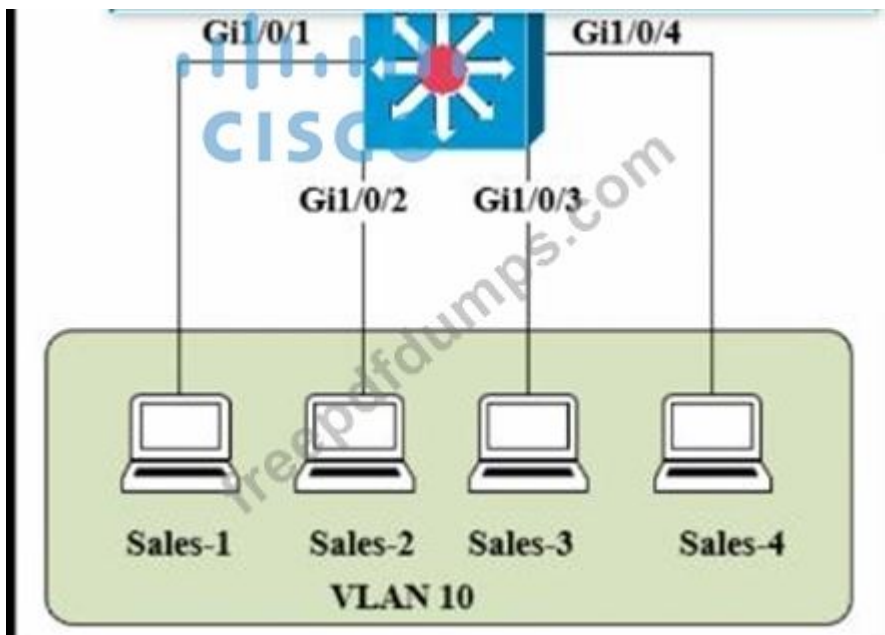
What is the primary purpose of a console port on a Cisco WLC?

- A. out-of-band management via an IP transport
- B. out-of-band management via an asynchronous transport
- C. In-band management via an asynchronous transport
- D. in-band management via an IP transport

Answer: B (LEAVE A REPLY)

**NEW QUESTION: 148**

Refer to the exhibit.



The entire contents of the MAC address table are shown. Sales-4 sends a data frame to Sales-1.

```
Sales-SW#show mac-address-table
Mac Address Table

VLAN MAC Address Type Ports
10 000c.8590.bb7d DYNAMIC Gi1/0/1
10 3910.4161.9bb7 DYNAMIC Gi1/0/2
10 00d0.d3b6.957c DYNAMIC Gi1/0/3
Sales-SW#
```

What does the switch do as it receives the frame from Sales-4?

- A. Perform a lookup in the MAC address table and discard the frame due to a missing entry.
- B. Insert the source MAC address and port into the forwarding table and forward the frame to Sales-1.
- C. Map the Layer 2 MAC address to the Layer 3 IP address and forward the frame.
- D. Flood the frame out of all ports except on the port where Sales-1 is connected.

**Answer:** ([SHOW ANSWER](#))

<https://www.ciscopress.com/articles/article.asp?p=3089352&seqNum=6>

#### NEW QUESTION: 149

Refer to the exhibit.

```
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
```

What action establishes the OSPF neighbor relationship without forming an adjacency?

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

**Answer:** ([SHOW ANSWER](#))

#### NEW QUESTION: 150

What is an enhancement implemented in WPA3?

- A. defends against deauthentication and disassociation attacks
- B. uses TKIP and per-packet keying
- C. applies 802.1x authentication and AES-128 encryption
- D. employs PKI and RADIUS to identify access points

**Answer:** ([SHOW ANSWER](#))

### NEW QUESTION: 151

Which 802.11 frame type is association response?

- A. control
- B. management
- C. protected frame
- D. action

Answer: ([SHOW ANSWER](#))

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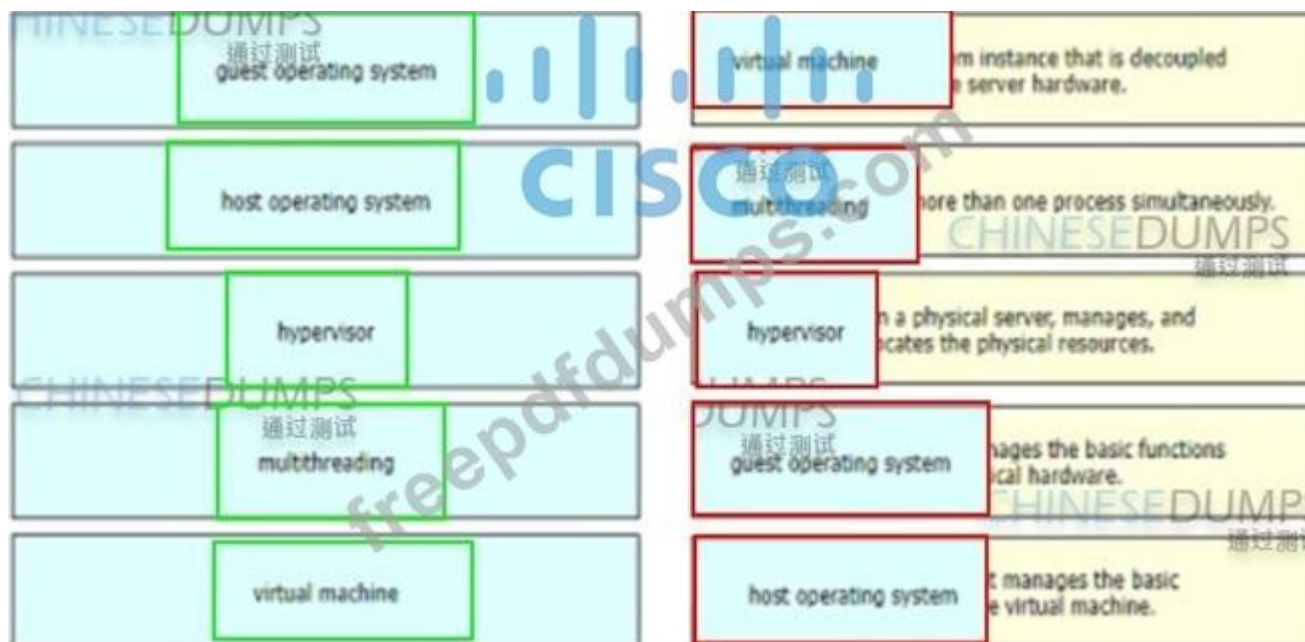
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### NEW QUESTION: 152

Drag and drop the virtualization concepts from the left onto the matching statements on the right.

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| guest operating system | An operating system instance that is decoupled from the server hardware.  |
| host operating system  | Each core can run more than one process simultaneously.                   |
| hypervisor             | Runs on a physical server, manages, and allocates the physical resources. |
| multithreading         | The software that manages the basic functions of the physical hardware.   |
| virtual machine        | The software that manages the basic functions of the virtual machine.     |

Answer:



**NEW QUESTION: 153**

What protocol allows an engineer to back up 20 network router configurations globally while using the copy function?

- A. TCP
- B. FTP
- C. SMTP
- D. SNMP

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 154**

What are two similarities between UTP Cat 5e and Cat 6a cabling? (Choose two.)

- A. Both support speeds up to 10 Gigabit.
- B. Both support runs of up to 55 meters.
- C. Both support speeds of at least 1 Gigabit.
- D. Both support runs of up to 100 meters.
- E. Both operate at a frequency of 500 MHz.

**Answer: C,D (LEAVE A REPLY)**

**NEW QUESTION: 155**

What provides centralized control of authentication and roaming In an enterprise network?

- A. a LAN switch
- B. a wireless LAN controller
- C. a lightweight access point
- D. a firewall

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 156**

Which network plane is centralized and manages routing decisions?

- A. control plane
- B. management plane
- C. data plane
- D. policy plane

**Answer:** [\(SHOW ANSWER\)](#)

**NEW QUESTION: 157**

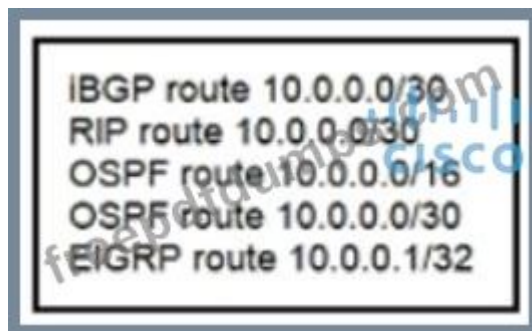
What is the purpose of the Cisco DNA Center controller?

- A. to secure physical access to a data center
- B. to provide Layer 3 services to autonomous access points
- C. to scan a network and generate a Layer 2 network diagram
- D. to securely manage and deploy network devices

**Answer:** [D \(LEAVE A REPLY\)](#)

**NEW QUESTION: 158**

Refer to the exhibit.



A router reserved these five routes from different routing information sources.

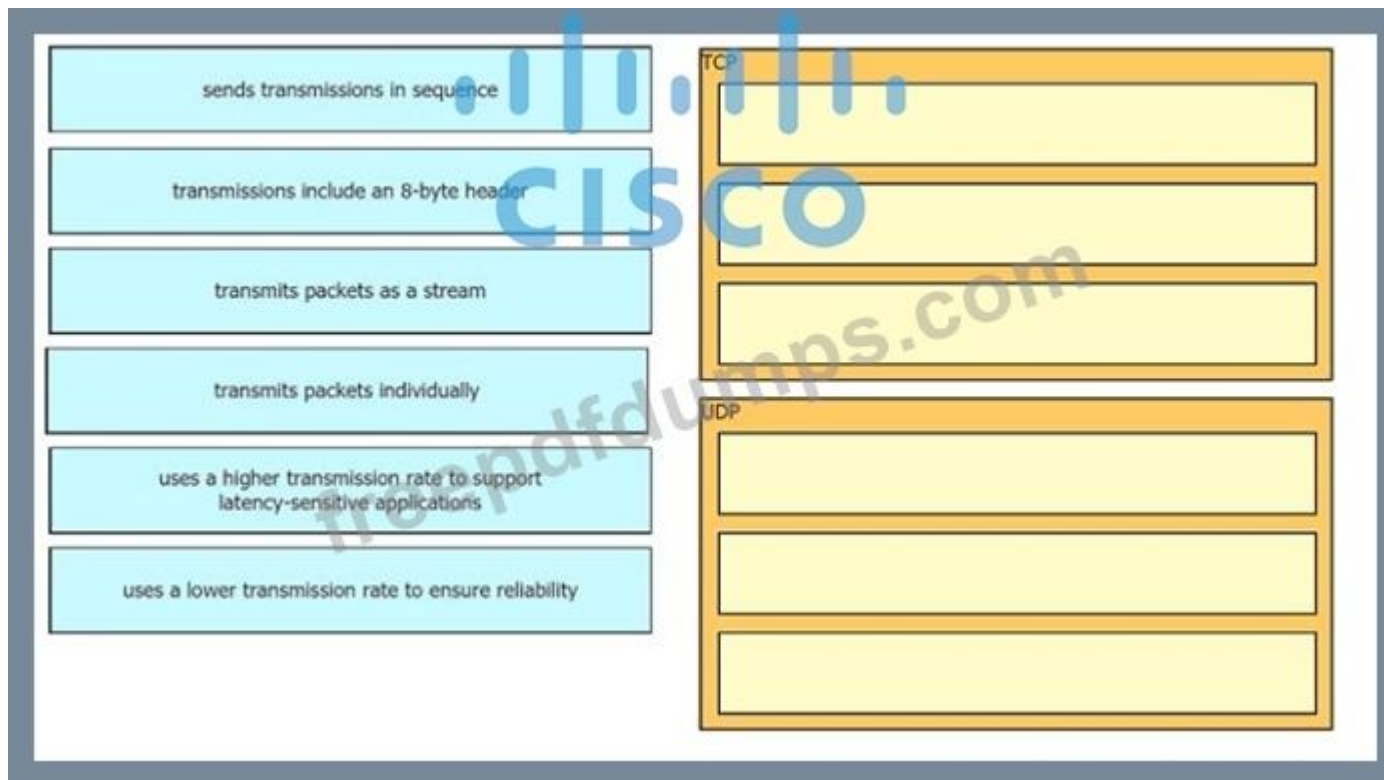
Which two routes does the router install in its routing table? (Choose two)

- A. iBGP route 10.0.0.0/30
- B. EIGRP route 10.0.0.1/32
- C. OSPF route 10.0.0.0/30
- D. OSPF route 10.0.0.0/16
- E. RIP route 10.0.0.0/30

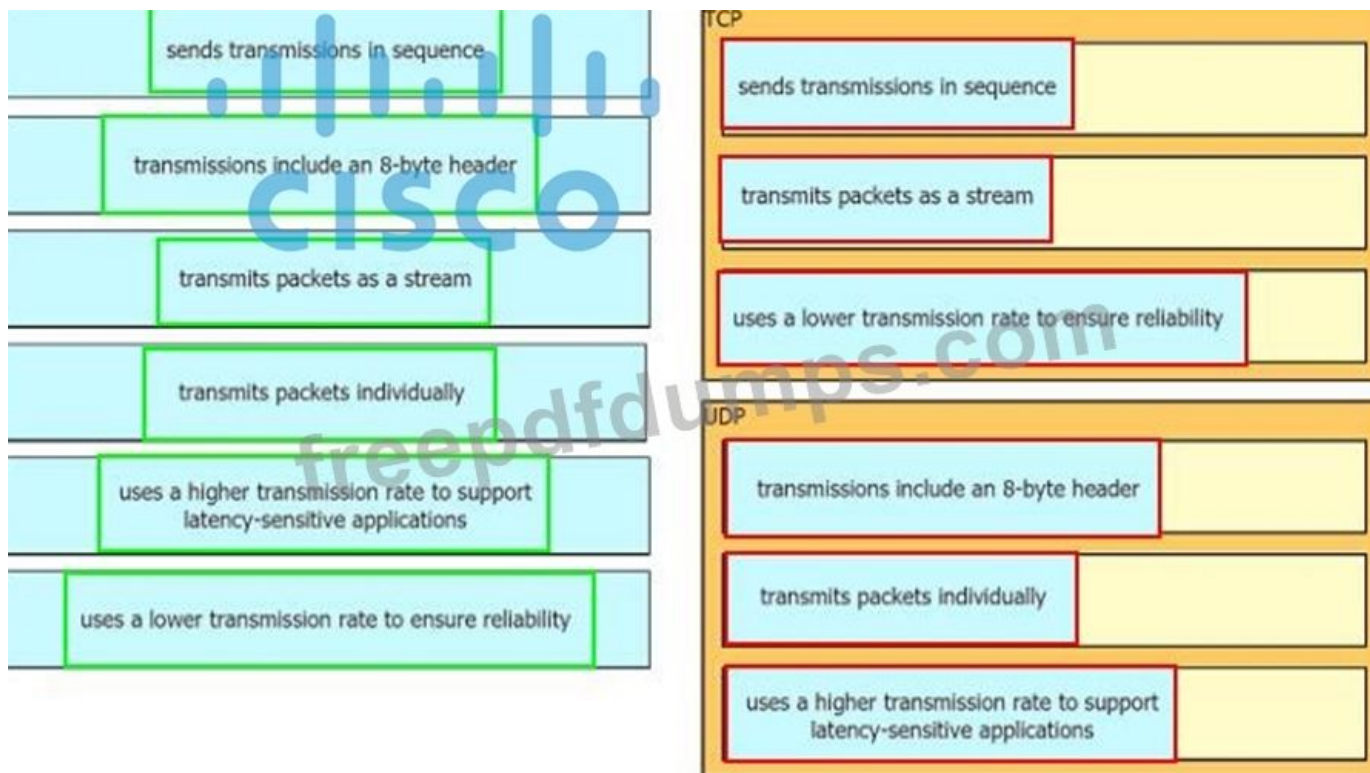
**Answer:** [B,C \(LEAVE A REPLY\)](#)

**NEW QUESTION: 159**

Drag the descriptions of IP protocol transmissions from the left onto the IP traffic types on the right.



Answer:



**NEW QUESTION: 160**

Under which condition is TCP preferred over UDP?

- A. TCP is used when data reliability is critical, and UDP is used when missing packets are acceptable.
- B. TCP is used when dropped data is more acceptable, and UDP is used when data is accepted out-of-order.
- C. UDP is used when low latency is optimal, and TCP is used when latency is tolerable.
- D. UDP is used when data is highly interactive, and TCP is used when data is time-sensitive.

**Answer: A ([LEAVE A REPLY](#))**

**NEW QUESTION: 161**

What is the purpose of an SSID?

- A. It provides network security
- B. It differentiates traffic entering access points
- C. It identifies an individual access point on a WLAN
- D. It identifies a WLAN

**Answer: D ([LEAVE A REPLY](#))**

"In IEEE 802.11 wireless local area networking standards (including Wi-Fi), a service set is a group of wireless network devices which share a service set identifier (SSID) ... A service set forms a logical network of nodes operating with shared link-layer networking parameters; they form one logical network segment."

**NEW QUESTION: 162**

How does a Cisco Unified Wireless network respond to Wi-Fi channel overlap?

- A. It analyzes client load and background noise and dynamically assigns a channel.
- B. It allows the administrator to assign channels on a per-device or per-interface basis.
- C. It alternates automatically between 2.4 GHz and 5 GHz on adjacent access points
- D. It segregates devices from different manufacturers onto different channels.

**Answer: C ([LEAVE A REPLY](#))**

**NEW QUESTION: 163**

Refer to the exhibit.

```
"attributes": {
 "pwd": "password1",
 "firstName": "Abraham",
 "lastName": "Lincoln",
 "phone": "5555551212",
 "email": "test@cisco.com"
},
"children": [{
 "aaaUserDomain": {
 "attributes": {
 "name": "ExampleCisco"
 },
 "children": [{
 "aaaUserRole": {
 "attributes": {
 "name": "admin"
 }
 }
]
 }
}]
}
```

How many objects are present in the given JSON-encoded data?

- A. four
- B. one
- C. seven
- D. nine

Answer: A ([LEAVE A REPLY](#))

#### NEW QUESTION: 164

Which level of severity must be set to get informational syslogs?

- A. alert
- B. notice
- C. debug
- D. critical

Answer: B ([LEAVE A REPLY](#))

#### NEW QUESTION: 165

Drag and drop the Ansible terms from the left onto the right.

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| control node | collection of actions to perform on target devices, expressed in YAML format               |
| inventory    | device with Ansible installed that manages target devices                                  |
| managed node | network device, without Ansible installed, upon which commands can be executed             |
| module       | specific action to be performed on one or more target devices                              |
| playbook     | unit of Python code to be executed                                                         |
| task         | Ansible file that defines the target devices upon which commands and tasks can be executed |

Answer:

|              |              |                                                                                            |
|--------------|--------------|--------------------------------------------------------------------------------------------|
| control node | inventory    | collection of actions to perform on target devices, expressed in YAML format               |
| inventory    | playbook     | device with Ansible installed that manages target devices                                  |
| managed node | module       | network device, without Ansible installed, upon which commands can be executed             |
| module       | task         | specific action to be performed on one or more target devices                              |
| playbook     | managed node | unit of Python code to be executed                                                         |
| task         | control node | Ansible file that defines the target devices upon which commands and tasks can be executed |

NEW QUESTION: 166

Refer to the exhibit.

```

service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname R4
!
boot-start-marker
boot-end-marker
!
ip cef
!
interface FastEthernet0/0
description WAN_INTERFACE
ip address 10.0.1.2 255.255.255.252
ip access-group 100 in
!
interface FastEthernet0/1
description LAN_INTERFACE
ip address 10.148.2.1 255.255.255.0
duplex auto
speed auto
!
ip forward-protocol nd
!
access-list 100 permit eigrp any any
access-list 100 permit icmp any any
access-list 100 permit tcp 10.149.3.0 0.0.0.255 host 10.0.1.2 eq 22
access-list 100 permit tcp any any eq 80
access-list 100 permit tcp any any eq 443
access-list 100 deny ip any any log

```

Which configuration enables DHCP addressing for hosts connected to interface FastEthernetO/1 on router R4?

**A.** interface FastEthernot0/1

ip helper-address 10.0.1.1

!

access-list 100 permit tcp host 10.0.1.1 eq 67 host 10.148.2.1

**B.** interface FastEthernet0/1

ip helper-address 10.0.1.1

!

access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1

**C.** interface FastEthernetO/0

ip helper-address 10.0.1.1

|

access-list 100 permit host 10.0.1.1 host 10.148.2.1 eq bootps

**D.** interface FastEthernet0/0

ip helper-address 10.0.1.1

i

access-list 100 permit udp host 10.0.1.1 eq bootps host 10.148.2.1

**Answer: A (LEAVE A REPLY)**

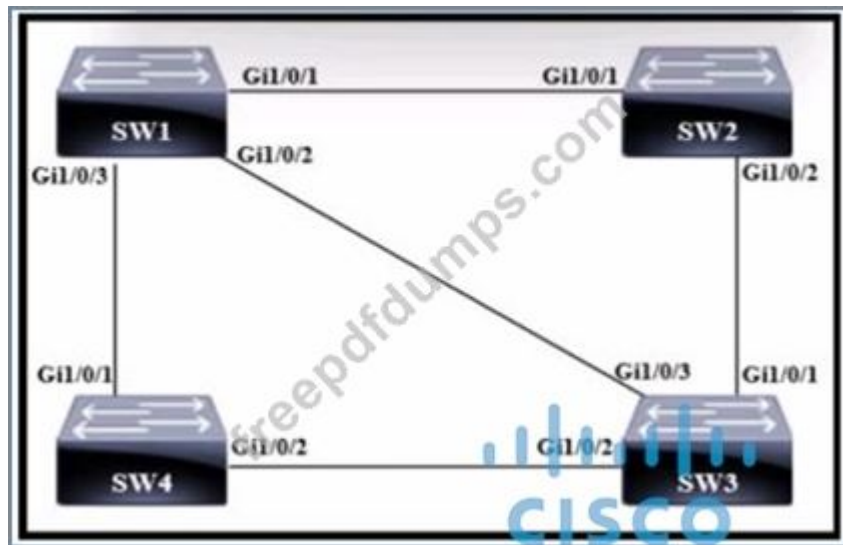
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### NEW QUESTION: 167

Refer to Exhibit.



A)

SW 1  
Bridge Priority - 32768  
mac-address 0d:ca:8e:7f:a0:24

B)

SW 2  
Bridge Priority - 53248  
mac-address 02:3e:ee:61:5b:21

C)

SW 4  
Bridge Priority - 32768  
mac-address 07:c1:b7:27:dd:73

D)

SW 3  
Bridge Priority - 53248  
mac-address 02:aa:03:d3:05:87

A. Option C

B. Option D

C. Option B

D. Option A

**Answer: B (LEAVE A REPLY)**

### NEW QUESTION: 168

Which two functions are performed by the core layer in a three-tier architecture? (Choose two)

A. Provide uninterrupted forwarding service.

B. Police traffic that is sent to the edge of the network.

C. Provide direct connectivity for end user devices.

D. Ensure timely data transfer between layers.

E. Inspect packets for malicious activity.

**Answer: (SHOW ANSWER)**

Cisco is very clear about the purpose of this layer. Its only role is to forward traffic, the fastest it can. Here you don't apply any policy, as you must try to reduce the load of the core so it can focus on routing.

<https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Campus/campover.html#wp708831>

### NEW QUESTION: 169

Refer to the exhibit.

```
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
```

Which prefix did router R1 learn from internal EIGRP?

- A. 172.16.1.0/24
- B. 192.168.10/24
- C. 192.168.2.0/24
- D. 192.168.3.0/24

Answer: C ([LEAVE A REPLY](#))

### NEW QUESTION: 170

Refer to the exhibit.

```
{
 "SW1" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW2" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW3" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"],
 "SW4" : ["Ten-GigabitEthernet0/0", "Ten-GigabitEthernet0/1"]
}
```

How many JSON objects are presented?

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

Answer: A ([LEAVE A REPLY](#))

### NEW QUESTION: 171

An implementer is preparing hardware for virtualization to create virtual machines on a host. What is needed to provide communication between hardware and virtual machines?

- A. hypervisor

- B. router
- C. straight cable
- D. switch

Answer: A ([LEAVE A REPLY](#))

**NEW QUESTION: 172**

Drag and drop the SNMP components from the left onto the description on the right.

|                |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| agent          | collection of uniquely identifiable objects whose state can be interrogated over SNMP |
| managed device | network node controlled by SNMP                                                       |
| MIB            | system that runs monitoring applications and controls network nodes                   |
| NMS            | SNMP component that captures and translates device and network data                   |

**CISCO**

Answer:

|                |                |                                                                                       |
|----------------|----------------|---------------------------------------------------------------------------------------|
| agent          | managed device | collection of uniquely identifiable objects whose state can be interrogated over SNMP |
| managed device | MIB            | network node controlled by SNMP                                                       |
| MIB            | agent          | system that runs monitoring applications and controls network nodes                   |
| NMS            | NMS            | SNMP component that captures and translates device and network data                   |

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**NEW QUESTION: 173**

Refer to the exhibit.

```

Router#show run
Building configuration...

Current configuration : 1530 bytes
!
! Last configuration change at 11:32:53 UTC Sat Oct 10 2020
upgrade fpd auto
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Router
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
no ip icmp rate-limit unreachable
!
!
!
--More--

```

Which minimum configuration items are needed to enable Secure Shell version 2 access to R15?

A)

```

Router(config)#hostname R15
R15(config)#crypto key generate rsa general-keys modulus 1024
R15(config-line)#line vty 0 15
R15(config-line)# transport input ssh
R15(config)#ip ssh source-interface Fa0/0
R15(config)#ip ssh stricthostkeycheck

```

B)

```

Router(config)#crypto key generate rsa general-keys modulus 1024
Router(config)#ip ssh version 2
Router(config-line)#line vty 0 15
Router(config-line)# transport input ssh
Router(config)#ip ssh logging events
R15(config)#ip ssh stricthostkeycheck

```

C)

```

Router(config)#ip domain-name cisco.com
Router(config)#crypto key generate rsa general-keys modulus 1024
Router(config)#ip ssh version 2
Router(config-line)#line vty 0 15
Router(config-line)# transport input all
Router(config)#ip ssh logging events

```

D)

```

Router(config)#hostname R15
R15(config)#ip domain-name cisco.com
R15(config)#crypto key generate rsa general-keys modulus 1024
R15(config)#ip ssh version 2
R15(config-line)#line vty 0 15
R15(config-line)# transport input ssh

```

A. Option D

B. Option B

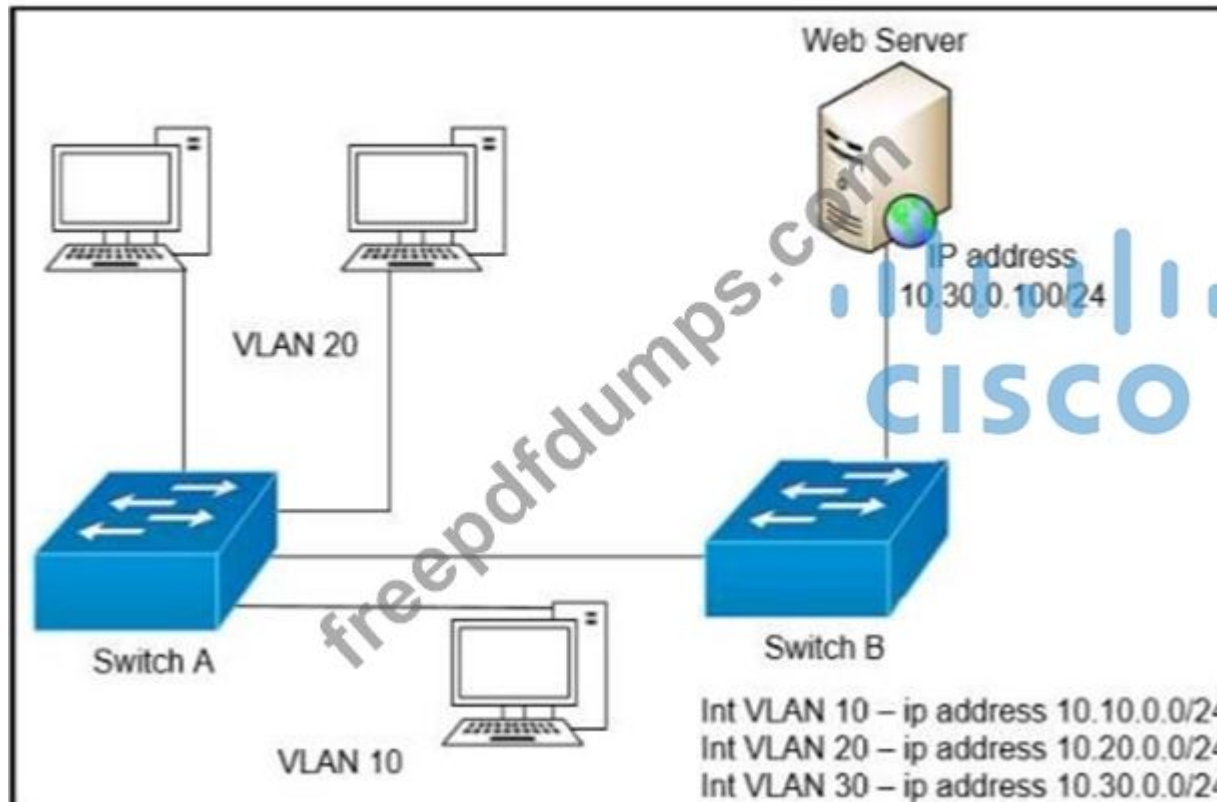
C. Option C

D. Option A

Answer: C ([LEAVE A REPLY](#))

### NEW QUESTION: 174

Refer to the exhibit.



A network engineer must block access for all computers on VLAN 20 to the web server via HTTP. All other computers must be able to access the web server. Which configuration when applied to switch A accomplishes this task?

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
int vlan 10
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
permit ip any any
int vlan 20
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 30
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 20
ip access-group wwwblock in
```

- A. Option D
- B. Option A
- C. Option B
- D. Option C

**Answer: C** ([LEAVE A REPLY](#))

#### NEW QUESTION: 175

Which action does the router take as it forwards a packet through the network?

- A. The router encapsulates the original packet and then includes a tag that identifies the source router MAC address and transmits it transparently to the destination
- B. The router replaces the original source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination
- C. The router replaces the source and destination labels with the sending router interface label as a source and the next hop router label as a destination
- D. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination

**Answer: B** ([LEAVE A REPLY](#))

**NEW QUESTION: 176**

When is the PUT method used within HTTP?

- A. to update a DNS server
- B. to display a web site
- C. when a nonidempotent operation is needed
- D. when a read-only operation it required

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 177**

Drag and drop the IPv6 addresses from the left onto the corresponding address types on the right.

2001:db8:600d:cafe::123

fcba:926ace0e:7a25:b1:c6d2:1a76:8fdc

fe80::a00:27ff:feeb:89aa

ff05::1:3

Global Unicast

Link-Local Unicast

Multicast

Unique Local

CISCO

Answer:

2001:db8:600d:cafe::123

fcba:926ace0e:7a25:b1:c6d2:1a76:8fdc

fe80::a00:27ff:feeb:89aa

ff05::1:3

Global Unicast

Link-Local Unicast

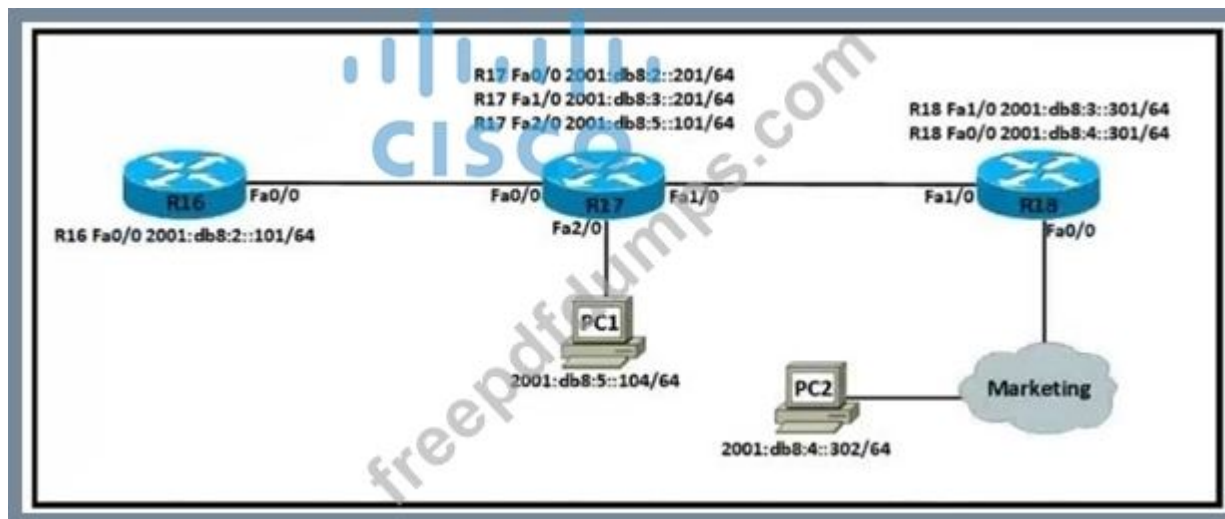
Multicast

Unique Local

CISCO

**NEW QUESTION: 178**

Refer to the exhibit.



Which IPv6 configuration is required for R17 to successfully ping the WAN interface on R18?

- A.
- ```

R17#
!
no ip domain lookup
ip cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:5::104
R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:3::301

```
- B.

```

R17#
!
no ip domain lookup
ip cef
ipv6 cef
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:4::302

```

C.

```

R17#
!
no ip domain lookup
ip cef
ipv6 unicast-routing
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:2::201/64
!
interface FastEthernet1/0
no ip address
duplex auto
speed auto
ipv6 address 2001:DB8:3::201/64
!
no cdp log mismatch duplex
ipv6 route 2001:DB8:4::/64 2001:DB8:2::201

```

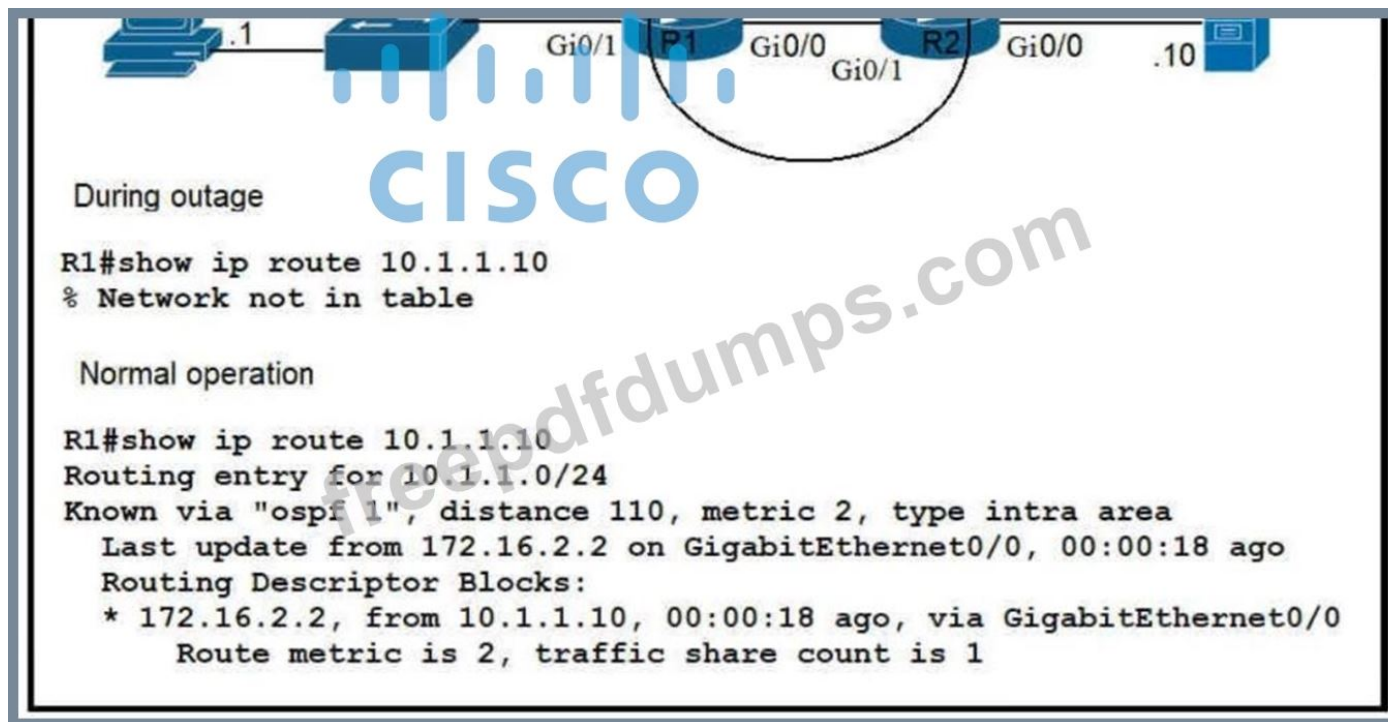
D.

Answer: (SHOW ANSWER)

ipv6 unicast-routing statement included (IPv6 is enabled on the router). Compared to the exhibit, Fa0/0 and Fa0/1 have correct configurations. The route to subnet 2001:db8:4::/64 points to R18's Fa1/0 (correct next-hop).

NEW QUESTION: 179

Refer to the exhibit.



Which route must be configured on R1 so that OSPF routing is used when OSPF is up. but the server is still reachable when OSPF goes down?

- A. ip route 10.1.1.0 255.255.255.0 gi0/1 125
- B. ip route 10.1.1.0 255.255.255.0 172.16.2.2 100
- C. ip route 10.1.1.10 255.255.255.255 172.16.2.2 100
- D. ip route 10.1.1.10 255.255.255.255 gi0/0 125

Answer: (SHOW ANSWER)

NEW QUESTION: 180

Which type of address is the public IP address of a NAT device?

- A. outside global
- B. outsdwde local
- C. inside global
- D. insride local
- E. outside public
- F. inside public

Answer: (SHOW ANSWER)

NAT use four types of addresses:

* Inside local address - The IP address assigned to a host on the inside network. The address is usually not an IP address assigned by the Internet Network Information Center (InterNIC) or service provider.

This address is likely to be an RFC 1918 private address.

* Inside global address - A legitimate IP address assigned by the InterNIC or service provider that represents one or more inside local IP addresses to the outside world.

* Outside local address - The IP address of an outside host as it is known to the hosts on the inside network.

* Outside global address - The IP address assigned to a host on the outside network. The owner of the host assigns this address.

NEW QUESTION: 181

What are two differences between WPA2 and WPA3 wireless security? (Choose two.)

- A. WPA2 uses 1 M-bit key encryption and WPA3 requires 256-bit key encryption
- B. WPA2 uses 128-bit key encryption and WPA3 supports 128 bit and 192 bit key encryption
- C. WPA3 uses AES for stronger protection than WPA2 which uses TKIP WPA3 uses
- D. SAE for stronger protection than WPA2 which uses AES
- E. WPA3 uses AES for stronger protection than WPA2 which uses SAE

Answer: B,C (LEAVE A REPLY)

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NEW QUESTION: 182

Which action must be taken to assign a global unicast IPv6 address on an interface that is derived from the MAC address of that interface?

- A. enable SLAAC on an interface
- B. explicitly assign a link-local address
- C. configure a stateful DHCPv6 server on the network
- D. disable the EUI-64 bit process

Answer: C (LEAVE A REPLY)

NEW QUESTION: 183

What is the definition of backdoor malware?

- A. malicious code that infects a user machine and then uses that machine to send spam
- 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 program that is used to launch other malicious programs

Answer: B (LEAVE A REPLY)

NEW QUESTION: 184

A manager asks a network engineer to advise which cloud service models are used so employees do not have to waste their time installing, managing, and updating software which is only used occasionally Which cloud service model does the engineer recommend?

- A. software-as-a-service
- B. platform-as-a-service

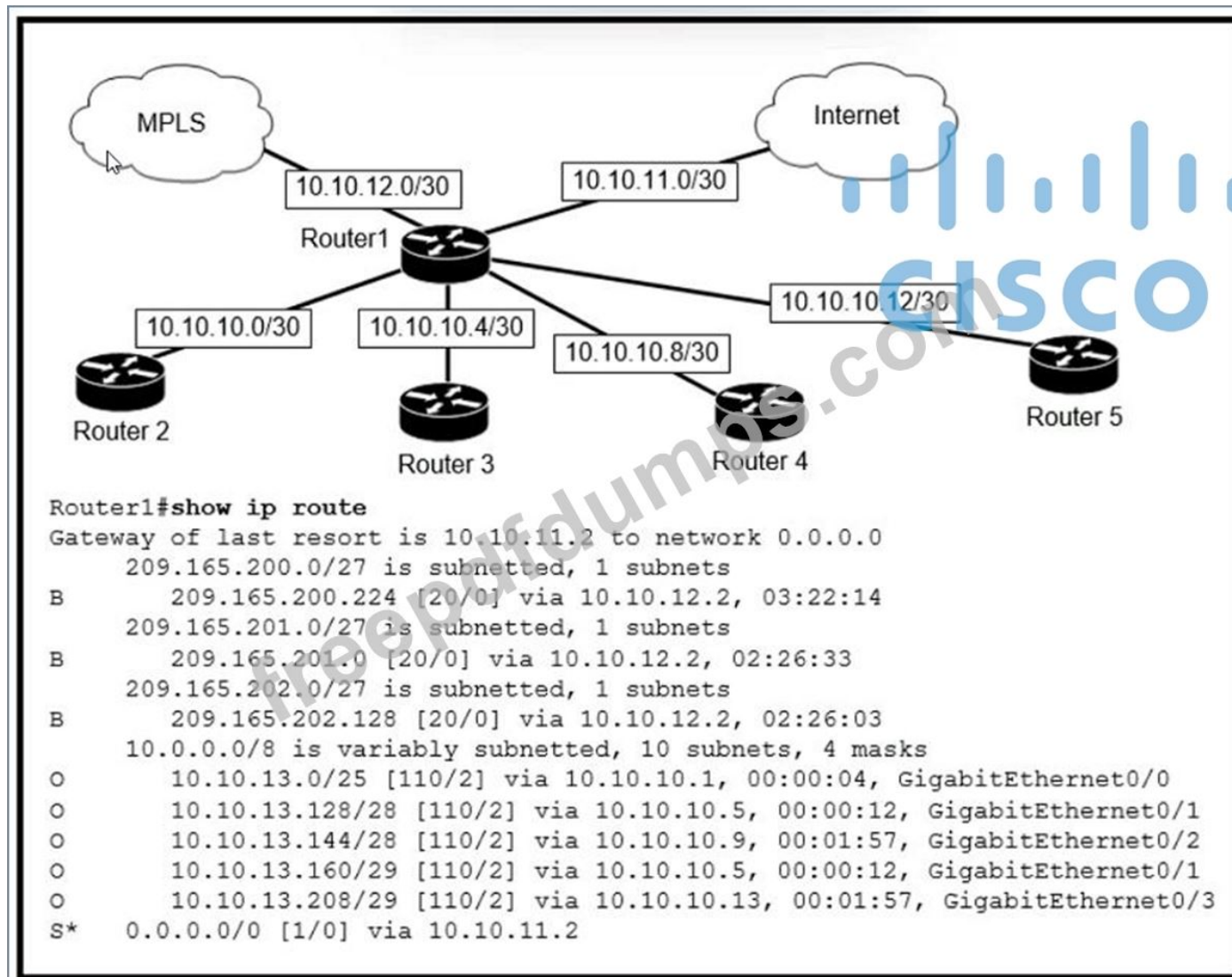
C. business process as service to support different types of service

D. infrastructure-as-a-service

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 185

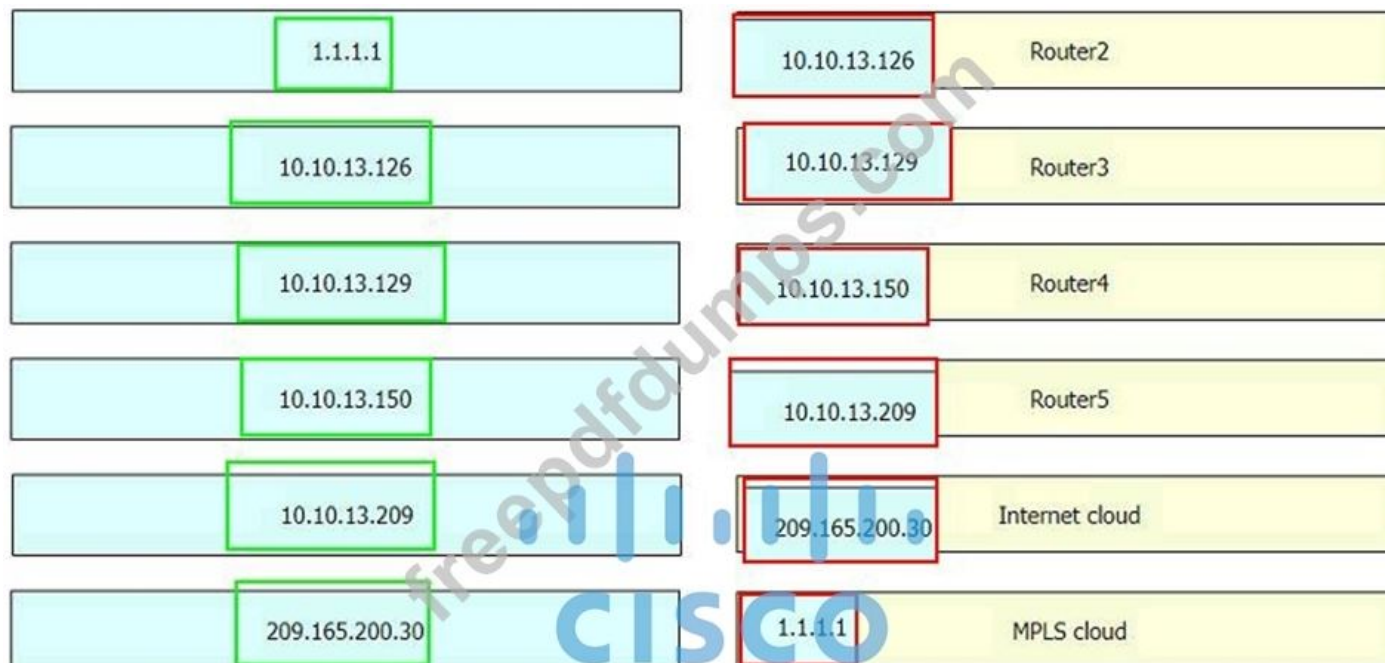
Refer to the exhibit.



Drag and drop the destination IPs from the left onto the paths to reach those destinations on the right.



Answer:



NEW QUESTION: 186

What is the primary function of a Layer 3 device?

- A. to pass traffic between different networks
- B. to analyze traffic and drop unauthorized traffic from the Internet
- C. to transmit wireless traffic between hosts
- D. forward traffic within the same broadcast domain

Answer: A (LEAVE A REPLY)

NEW QUESTION: 187

A device detects two stations transmitting frames at the same time. This condition occurs after the first 64 bytes of the frame is received interface counter increments?

- A. collision

- B. CRC
- C. runt
- D. late collision

Answer: (SHOW ANSWER)

<https://www.cisco.com/c/en/us/support/docs/interfaces-modules/port-adapters/12768-eth-collisions.html>

NEW QUESTION: 188

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

- A. GCMP256
- B. CCMP256
- C. CCMP128
- D. GCMP128

Answer: C (LEAVE A REPLY)

NEW QUESTION: 189

What are two functions of a Layer 2 switch? (Choose two)

- A. moves packets within a VLAN
- B. makes forwarding decisions based on the MAC address of a packet
- C. moves packets between different VLANs
- D. acts as a central point for association and authentication servers
- E. selects the best route between networks on a WAN

Answer: B,D (LEAVE A REPLY)

NEW QUESTION: 190

Refer to the exhibit.

```
RI# 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
```

What does route 10.0.1.3/32 represent in the routing table?

- A. the source 10.0.1.100
- B. the 10.0.0.0 network

- C. all hosts in the 10.0.1.0 subnet
- D. a single destination address

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 191

How is the native VLAN secured in a network?

- A. assign it as VLAN 1
- B. separate from other VLANs within the administrative domain
- C. configure it as a different VLAN ID on each end of the link
- D. give it a value in the private VLAN range

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 192

Drag and drop the use cases for device-management technologies from the left onto the corresponding.

overlay and underlay configuration

routed access deployment

STP deployment

VLAN and HSRP configuration

VXLAN and LISP configuration

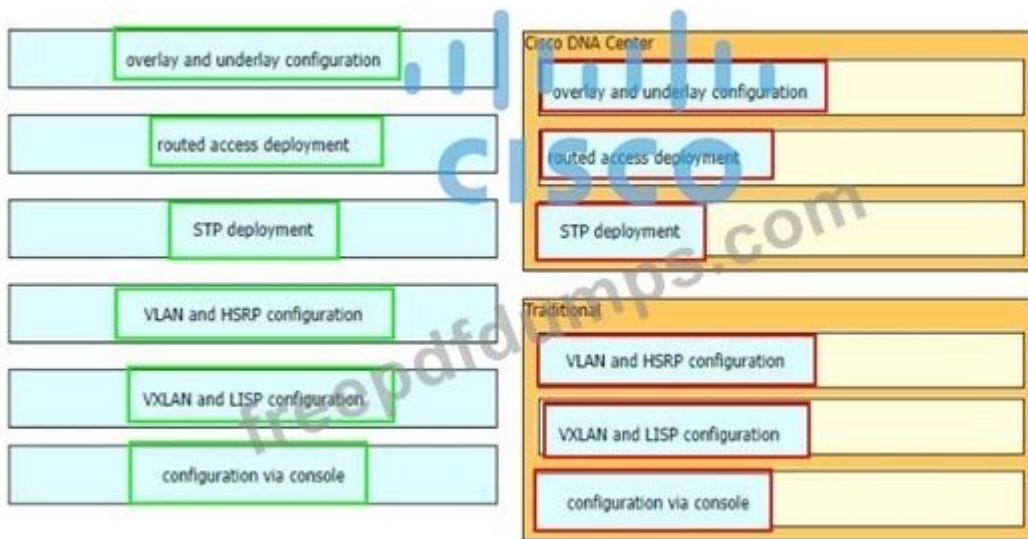
configuration via console

Cisco DNA Center

Traditional

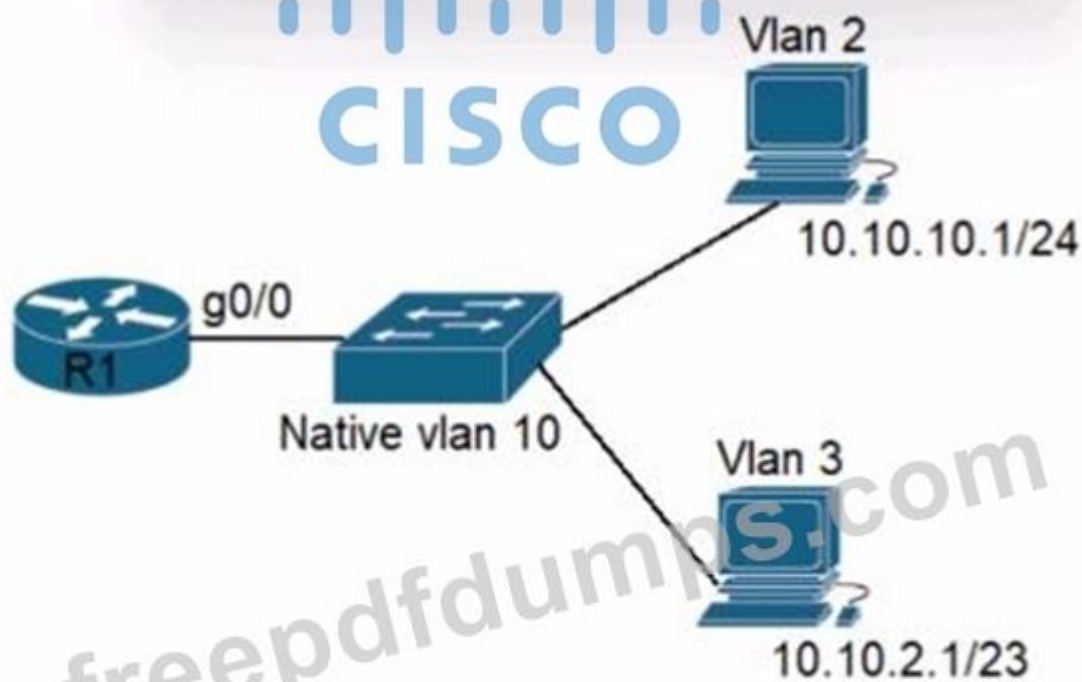
CISCO

Answer:



NEW QUESTION: 193

Refer to Exhibit.



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

- A)
 interface GigabitEthernet0/0
 ip address 10.10.2.10 255.255.252.0
- B)
 interface GigabitEthernet0/0.3
 encapsulation dot1Q 10
 ip address 10.10.2.10 255.255.255.252
- C)
 interface GigabitEthernet0/0.10
 encapsulation dot1Q 3
 ip address 10.10.2.10 255.255.254.0
- D)
 interface GigabitEthernet0/0.3
 encapsulation dot1Q 3 native
 ip address 10.10.2.10 255.255.252.0

- A. Option A
 B. Option D

C. Option C

D. Option B

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 194

What software defined architecture plane assists network devices with making packet-forwarding decisions by providing Layer 2 reachability and Layer 3 routing information?

A. control plane

B. data plane

C. management plane

D. policy plane

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 195

What is a characteristic of private IPv4 addressing?

A. traverse the Internet when an outbound ACL is applied

B. issued by IANA in conjunction with an autonomous system number

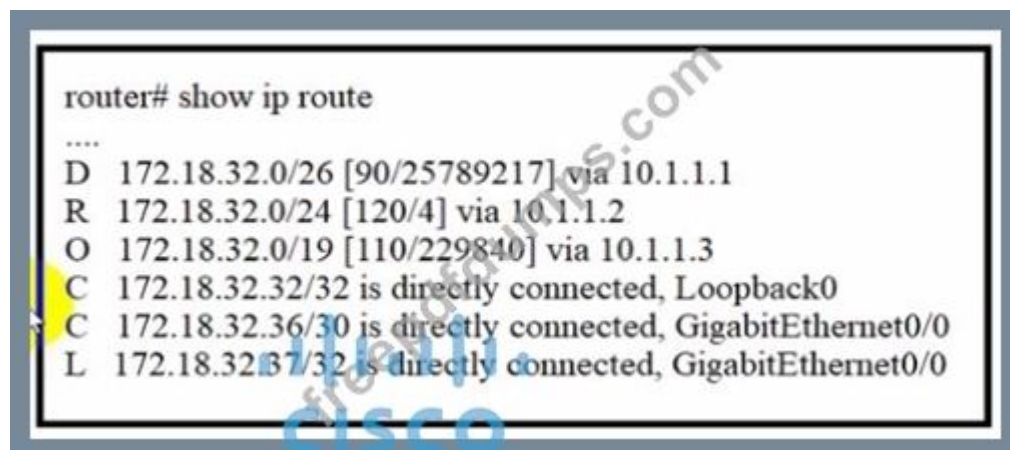
C. composed of up to 65.536 available addresses

D. used without tracking or registration

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 196

Refer to the exhibit.



```
router# show ip route
....
D 172.18.32.0/26 [90/25789217] via 10.1.1.1
R 172.18.32.0/24 [120/4] via 10.1.1.2
O 172.18.32.0/19 [110/229840] via 10.1.1.3
C 172.18.32.32/32 is directly connected, Loopback0
C 172.18.32.36/30 is directly connected, GigabitEthernet0/0
L 172.18.32.37/32 is directly connected, GigabitEthernet0/0
```

A packet sourced from 172.18.33.2 is destined for 172.18.32.38. Where does the router forward the packet?

A. GigabitEthernet0/0

B. 10.1.1.1

C. 10.1.1.3

D. Loopback0

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 197

Refer to the exhibit.

```
C:\>ipconfig/all

Windows IP Configuration

Host Name . . . . . : Inspiron15
Primary Dns Suffix . . . . . :
Node Type . . . . . : Mixed
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Wireless LAN adapter Local Area Connection* 12:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 1A-2B-3C-4D-5E-6F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . . . . . :
Description . . . . . : Dell Wireless 1703 802.11b/g/n (2.4GHz)
Physical Address. . . . . : B8-76-3F-7C-57-DF
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::e09f:9839:6e86:f255%12(Preferred)
IPv4 Address. . . . . : 192.168.1.20(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
DHCPv6 Iaid . . . . . : 263247135
DHCPv6 Client DUID. . . . . : 00-01-00-01-18-E6-32-43-B8-76-3F-7C-57-DF
. . . . . : 192.168.1.15
. . . . . : 192.168.1.16
NetBIOS over Tcpip. . . . . : Enabled
```

An engineer is tasked with verifying network configuration parameters on a client workstation to report back to the team lead.

Drag and drop the node identifiers from the left onto the network parameters on the right.

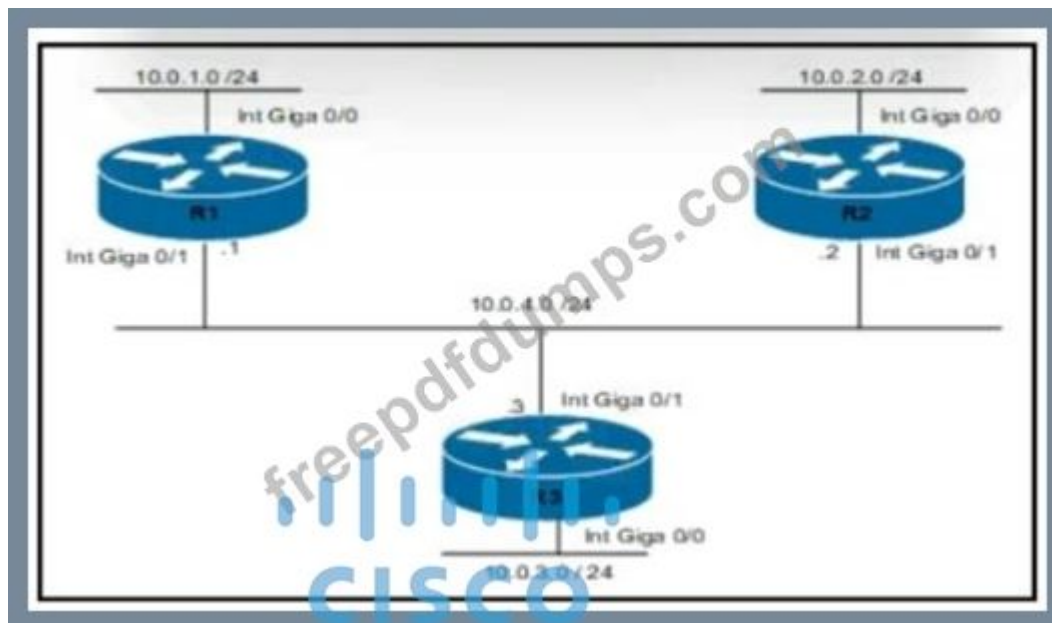
192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address

Answer:

192.168.1.1	192.168.1.255	broadcast address
192.168.1.20	192.168.1.1	default gateway
192.168.1.254	192.168.1.20	host IP address
192.168.1.255	192.168.1.254	usable IP address in the subnet
88-76-3F-7C-57-DF	88-76-3F-7C-57-DF	MAC address

NEW QUESTION: 198

Refer to the exhibit.



Routers R1 and R3 have the default configuration. The router R2 priority is set to 99. Which commands on R3 configure it as the DR in the 10.0.4.0/24 network?

- A. R3(config)#interface Gig0/0 R3(config-if)#ip ospf priority 1
- B. R3(config)#interface Gig0/1 R3(config-if)#ip ospf priority 0
- C. R3(config)#interface Gig0/1 R3(config-if)#ip ospf priority 100
- D. R3(config)#interface Gig0/0 R3(config-if)#ip ospf priority 100

Answer: D (LEAVE A REPLY)

NEW QUESTION: 199

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.)

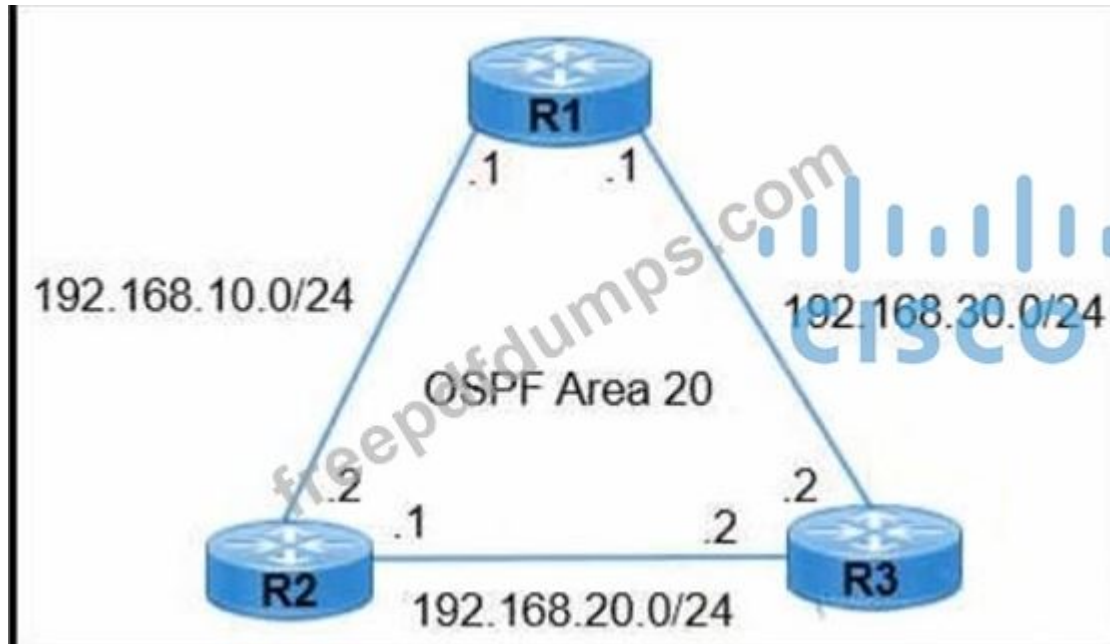
- A. transport input all
- B. transport Input ssh
- C. crypto key generate rsa modulus 2048
- D. crypto key generate rsa general-keys modulus 1024

E. crypto key generate rsa usage-keys

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 200

Refer to the exhibit.



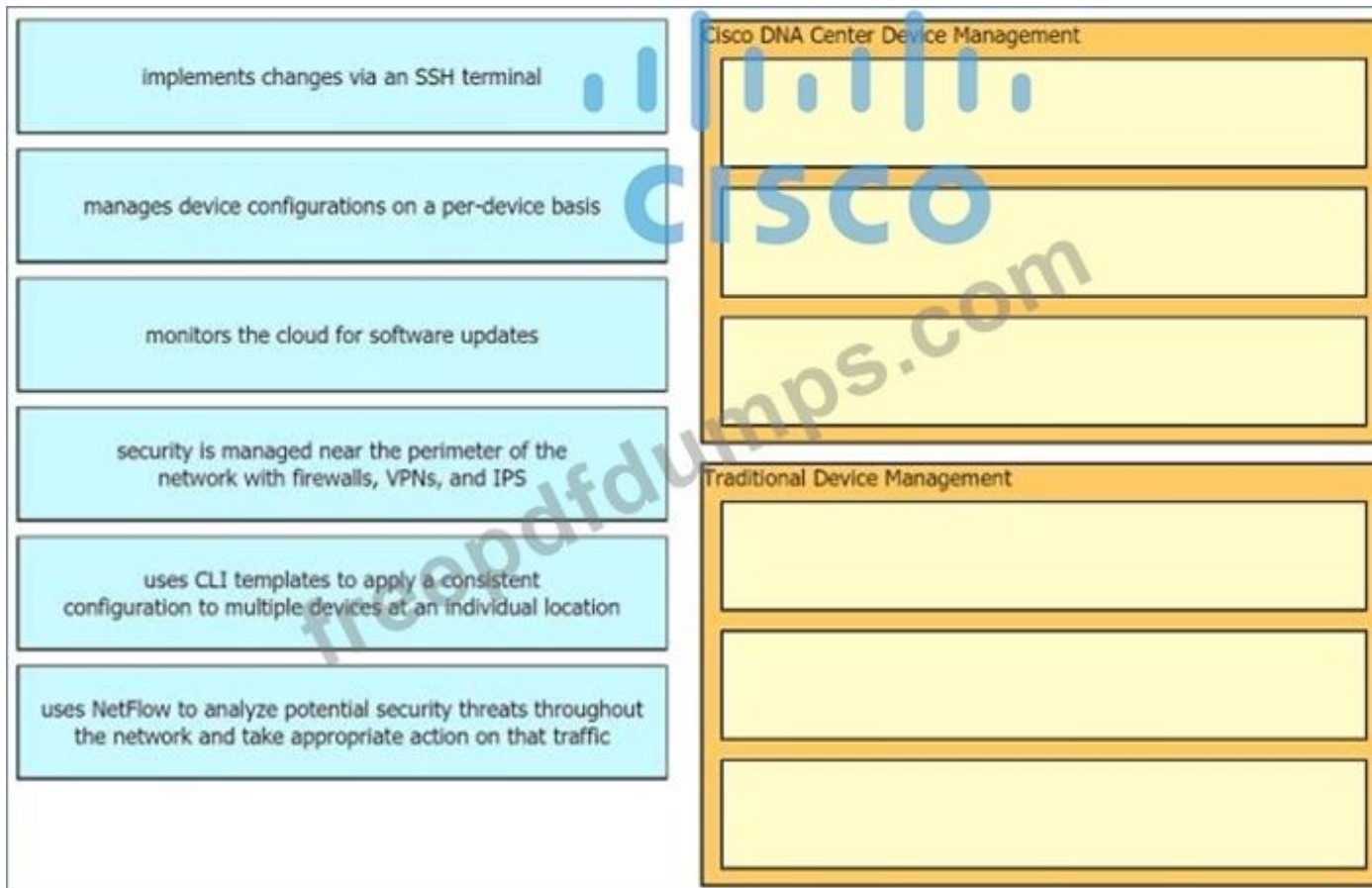
R1 learns all routes via OSPF Which command configures a backup static route on R1 to reach the 192.168.20.0/24 network via R3?

- A. R1(config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2
- B. R1(config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 90
- C. R1(config)#ip route 192.168.20.0 255.255.255.0 192.168.30.2 111
- D. R1(config)#ip route 192.168.20.0 255.255.0.0 192.168.30.2

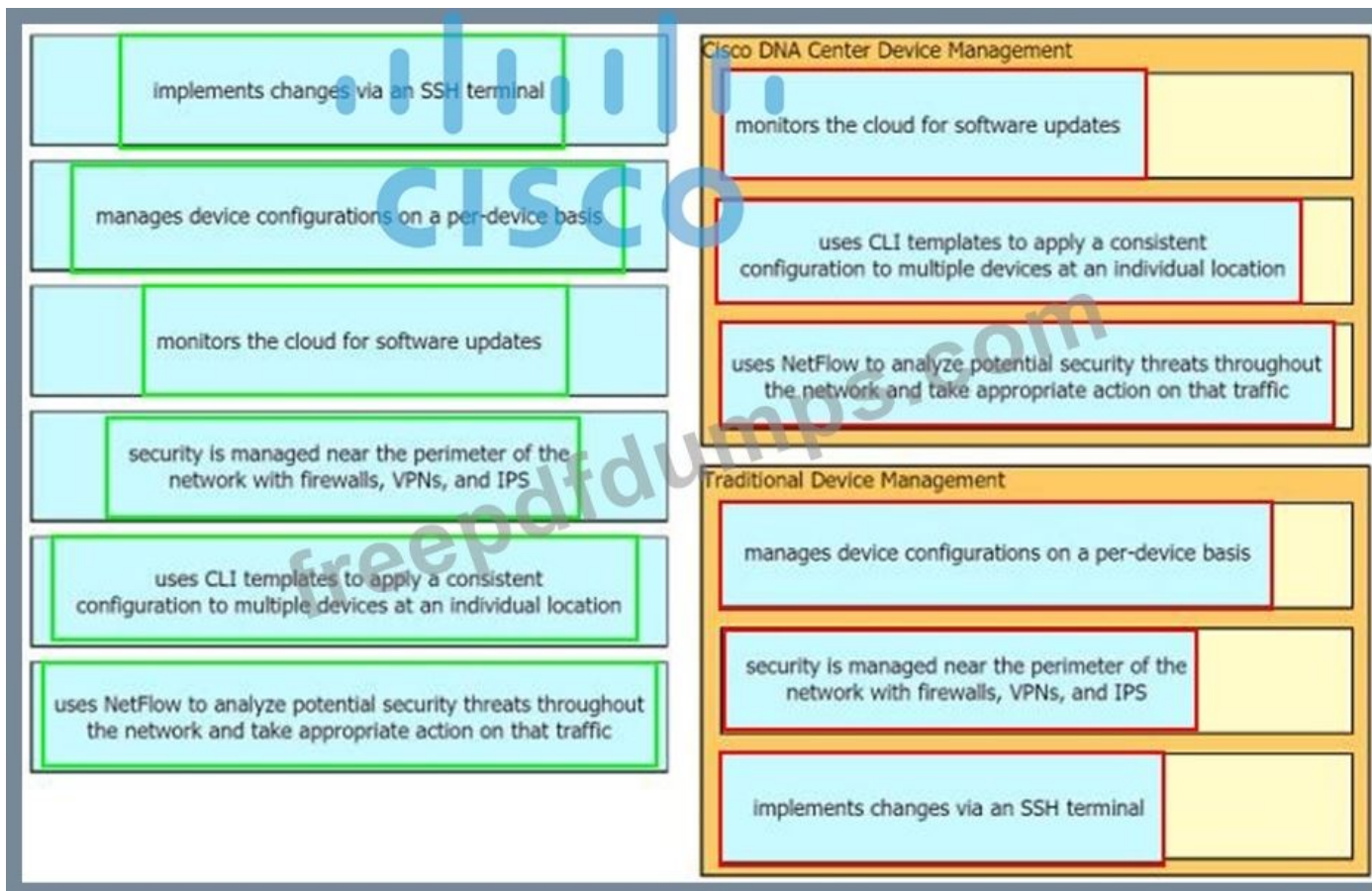
Answer: ([SHOW ANSWER](#))

NEW QUESTION: 201

Drag the descriptions of device management from the left onto the types of device management on the right.



Answer:



NEW QUESTION: 202

What is a function of an endpoint?

- A. It transmits broadcast traffic between devices in the same VLAN
- B. It provides security between trusted and untrusted sections of the network.
- C. It passes unicast communication between hosts in a network
- D. It is used directly by an individual user to access network services

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 203

What is the benefit of using FHRP?

- A. reduced ARP traffic on the network
- B. balancing traffic across multiple gateways in proportion to their loads
- C. higher degree of availability
- D. reduced management overhead on network routers

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 204

Drag and drop the statements about networking from me left onto the corresponding networking types on the right

This type implements changes individually at each device.

This type leverages controllers to handle network management.

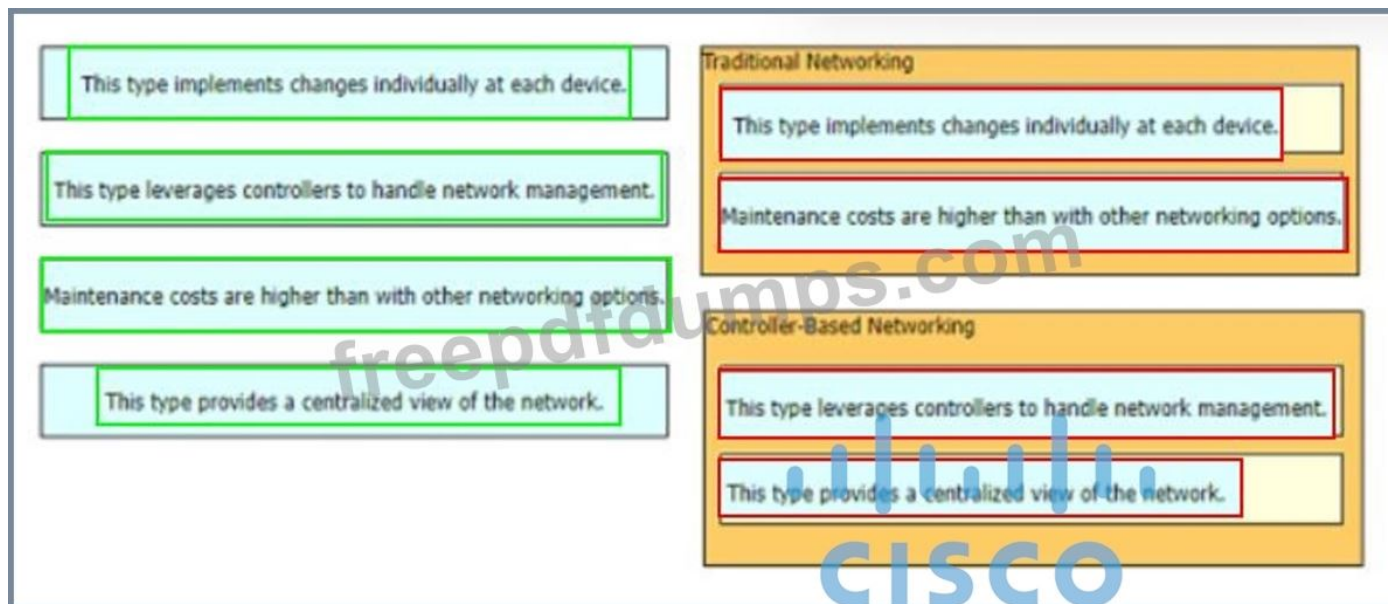
Maintenance costs are higher than with other networking options.

This type provides a centralized view of the network.

Traditional Networking

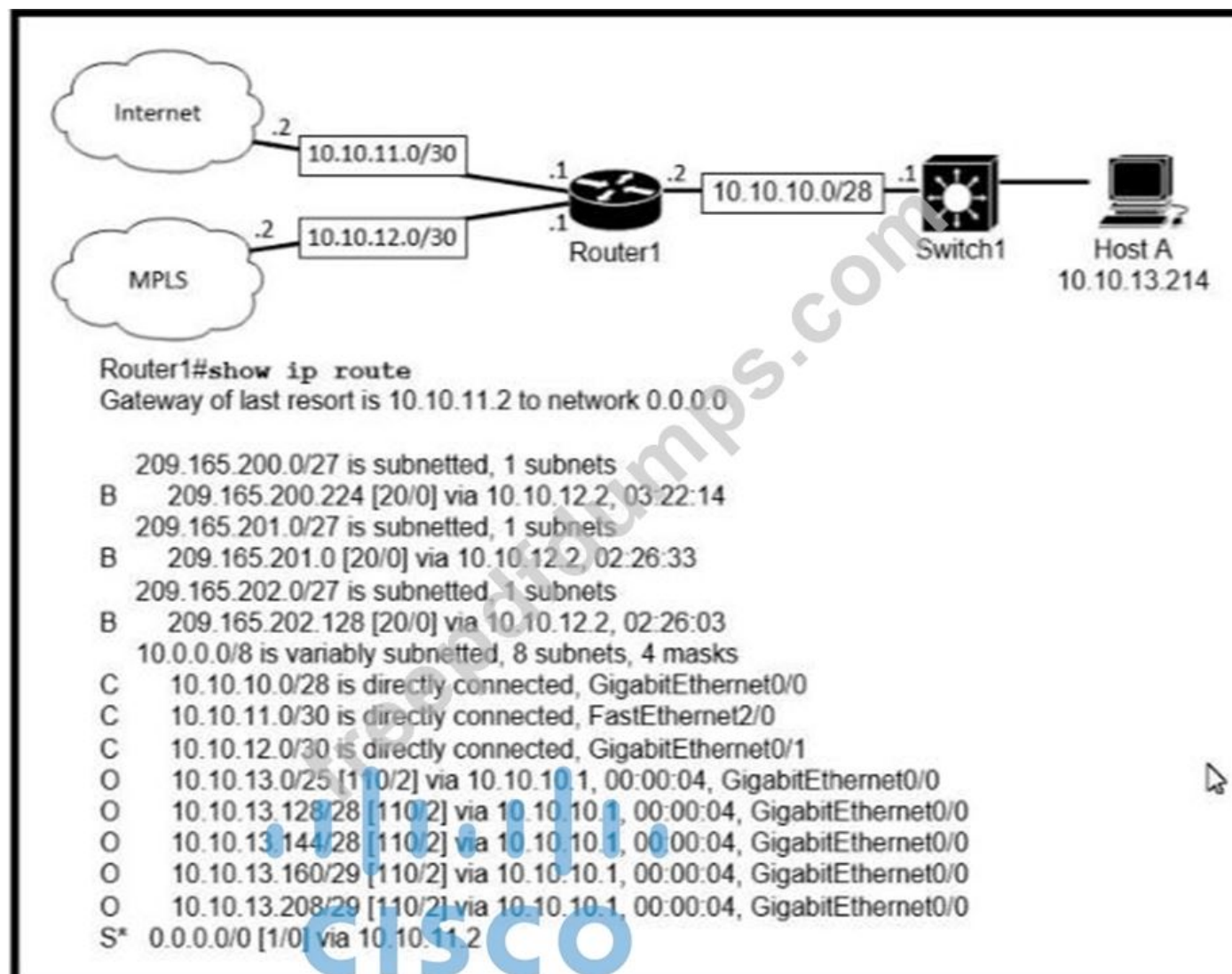
Controller-Based Networking

Answer:



NEW QUESTION: 205

Refer to the exhibit.



Which prefix does Router 1 use for traffic to Host A?

- A. 10.10.10.0/28

- B. 10.10.13.0/25
- C. 10.10.13.144/28
- D. 10.10.13.208/29

Answer: D (LEAVE A REPLY)

Host A address fall within the address range. However, if more than one route to the same subnet exist (router will use the longest stick match, which match more specific route to the subnet). If there are route 10.10.13.192/26 and 10.10.13.208/29, the router will forward the packet to /29 rather than /28.

NEW QUESTION: 206

Refer to the exhibit.

```

R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.254 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.254, Serial0/0/1
   is directly connected, Serial0/0/1
   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
R   172.16.2.0/24 [120/2] via 207.165.200.250, 00:00:25, Serial0/0/0
O   192.168.1.0/24 [110/4437] via 207.165.200.254, 00:00:17, Serial0/0/1
D   192.168.2.0/24 [90/84437] via 207.165.200.254, 00:00:15, Serial0/0/1
207.165.200.0/24 is variably subnetted, 5 subnets, 2 masks
S   207.165.200.244/30 [1/1] via 207.165.200.254, Serial0/0/1
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

```

Which network prefix was learned via EIGRP?

- A. 172.16.0.0/16
- B. 207.165.200.0/24
- C. 192.168.1.0/24
- D. 192.168.2.0/24

Answer: (SHOW ANSWER)

NEW QUESTION: 207

Which IPv6 address block sends packets to a group address rather than a single address?

- A. 2000::/3
- B. FC00::/7
- C. FE80::/10
- D. FF00::/8

Answer: D (LEAVE A REPLY)

FF00::/8 is used for IPv6 multicast and this is the IPv6 type of address the question wants to ask. FE80::/10 range is used for link-local addresses. Link-local addresses only used for communications within the local subnetwork (automatic address configuration, neighbor discovery, router discovery, and by many routing protocols). It is only valid on the current subnet. It is usually created dynamically using a link-local prefix of FE80::/10 and a 64-bit interface identifier (based on 48-bit MAC address).

NEW QUESTION: 208

Refer to the exhibit.

```
SW1#sh lacp neighbor
Flags: S - Device is requesting Slow LACPDUs
       F - Device is requesting Fast LACPDUs
       A - Device is in Active mode           P - Device is in Passive mode
```

```
Channel group 35 neighbors
```

```
Partner's information:
```

Port	Flags	LACP port Priority	Dev ID	Age	Admin key	Oper Key	Port Number	Port State
Et1/0	SP	32768	aabb.cc80.7000	8s	0x0	0x23	0x101	0x3C
Et1/1	SP	32768	aabb.cc80.7000	8s	0x0	0x23	0x102	0x3C

Based on the LACP neighbor status, in which mode is the SW1 port channel configured?

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

Answer: D (LEAVE A REPLY)

From the neighbor status, we notice the "Flags" are SP. "P" here means the neighbor is in Passive mode. In order to create an Etherchannel interface, the (local) SW1 ports should be in Active mode. Moreover, the "Port State" in the exhibit is "0x3c" (which equals to "00111100 in binary format). Bit 3 is "1" which means the ports are synchronizing -> the ports are working so the local ports should be in Active mode.

NEW QUESTION: 209

An engineer is configuring router R1 with an IPv6 static route for prefix 2019:C15C:0CAF:E001::/64. The next hop must be 2019:C15C:0CAF:E002::1 The route must be reachable via the R1 Gigabit 0/0 interface. Which command configures the designated route?

- A. R1(config-if)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1
- B. R1(config-if)#ip route 2019:C15C:0CAF:E001::/64 GigabitEthernet0/0
- C. R1(config)#ip route 2019:C15C:0CAF:E001::/64 GigabitEthernet0/0
- D. R1(config)#ipv6 route 2019:C15C:0CAF:E001::/64 2019:C15C:0CAF:E002::1

Answer: B (LEAVE A REPLY)

NEW QUESTION: 210

What facilitates a Telnet connection between devices by entering the device name?

- A. syslog
- B. SNMP
- C. NTP
- D. DNS lookup

Answer: D (LEAVE A REPLY)

NEW QUESTION: 211

What are two characteristics of an SSID? (Choose Two)

- A. It uniquely identifies an access point in a WLAN
- B. IT provides secured access to a WLAN
- C. It is at most 32 characters long.
- D. It uniquely identifies a client in a WLAN
- E. It can be hidden or broadcast in a WLAN

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 212

A network administrator must enable DHCP services between two sites. What must be configured for the router to pass DHCPDISCOVER messages on to the server?

- A. a DHCP Relay Agent
- B. DHCP Binding
- C. a DHCP Pool
- D. DHCP Snooping

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 213

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

- A. to ensure that the spanning-tree forwarding path to the gateway is loop-free
- B. to enable normal operations to continue after a member failure without requiring a change in a host ARP cache
- C. when a gateway protocol is required that support more than two Cisco devices for redundancy
- D. to interoperate normally with all vendors and provide additional security features for Cisco devices

Answer: **C** ([LEAVE A REPLY](#))

NEW QUESTION: 214

Which technology must be implemented to configure network device monitoring with the highest security?

- A. syslog
- B. NetFlow
- C. IP SLA
- D. SNMPv3

Answer: **B** ([LEAVE A REPLY](#))

NEW QUESTION: 215

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 216

Drag and drop the IPv6 address type characteristics from the left to the right.

attached to a single subnet

addresses with prefix FC00::/7

configured only once per interface

addressing for exclusive use internally without Internet routing

Link-Local Address

Unique Local Address

Answer:

attached to a single subnet

addresses with prefix FC00::/7

configured only once per interface

addressing for exclusive use internally without Internet routing

Link-Local Address

addresses with prefix FC00::/7

addressing for exclusive use internally without Internet routing

Unique Local Address

configured only once per interface

attached to a single subnet

NEW QUESTION: 217

What is a function of an endpoint on a network?

- A. forwards traffic between VLANs on a network
- B. connects server and client devices to a network
- C. allows users to record data and transmit to a file server
- D. provides wireless services to users in a building

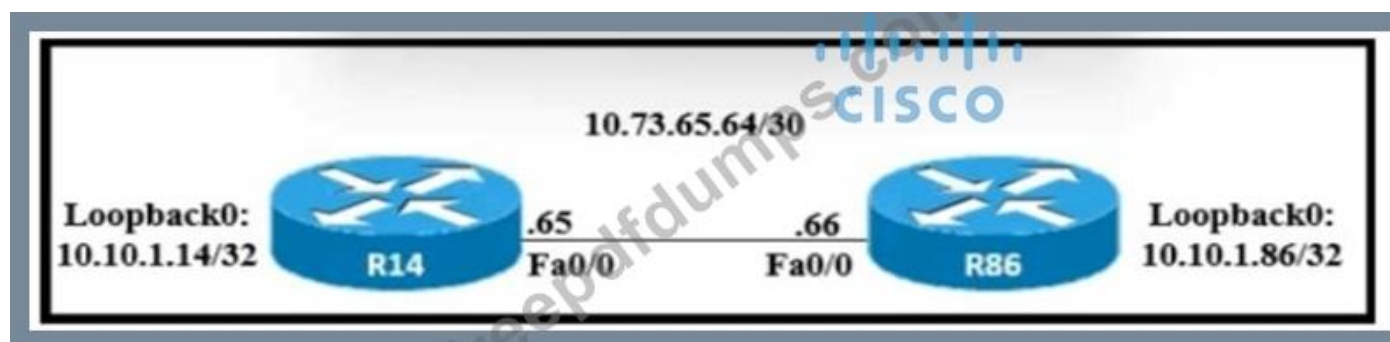
Answer: C ([LEAVE A REPLY](#))

An endpoint is a host that acts as the source or destination of data traffic flowing through a network.

When you are at your PC, editing your CV and uploading it to a file server, you are sitting at an endpoint.

NEW QUESTION: 218

Refer to the exhibit.



A static route must be configured on R14 to forward traffic for the 172.21.34.0/25 network that resides on R86. Which command must be used to fulfill the request?

- A. ip route 172.21.34.0 255.255.255.0 10.73.65.65
- B. ip route 172.21.34.0 255.255.255.128 10.73.65.66
- C. ip route 172.21.34.0 255.255.128.0 10.73.65.64
- D. ip route 172.21.34.0 255.255.255.192 10.73.65.65

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 219

How does Cisco DNA Center gather data from the network?

- A. Network devices use different services like SNMP, syslog, and streaming telemetry to send data to the controller
- B. The Cisco CU Analyzer tool gathers data from each licensed network device and streams it to the controller.
- C. Devices use the call-home protocol to periodically send data to the controller.
- D. Devices establish an iPsec tunnel to exchange data with the controller

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 220

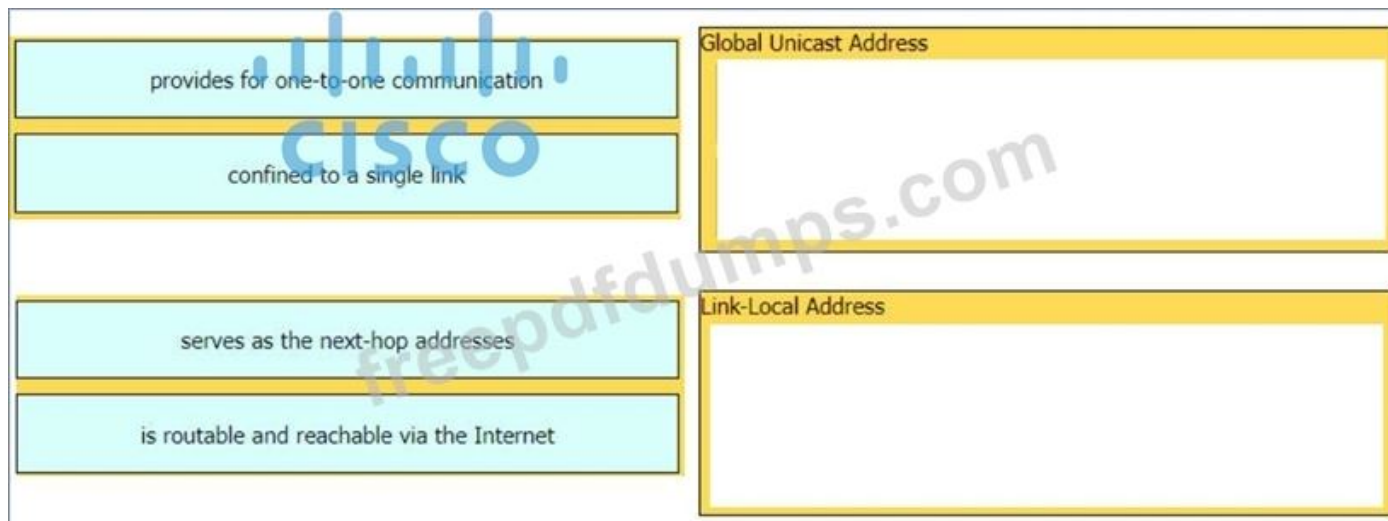
An engineer is installing a new wireless printer with a static IP address on the Wi-Fi network. Which feature must be enabled and configured to prevent connection issues with the printer?

- A. static IP tunneling
- B. passive client
- C. DHCP address assignment
- D. client exclusion

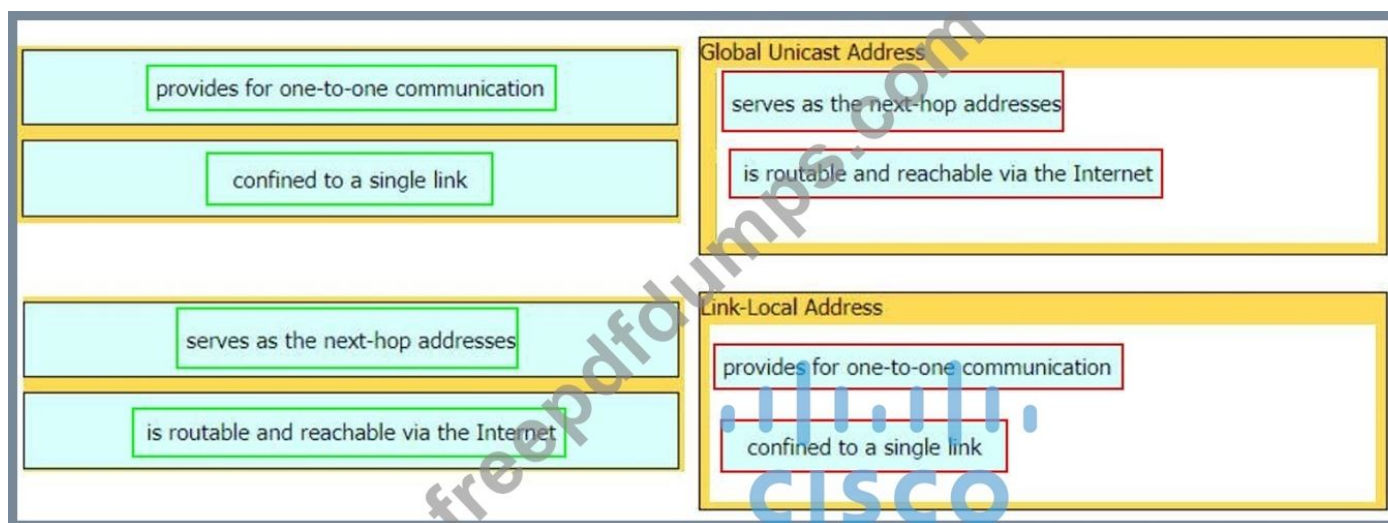
Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 221

Drag and drop the characteristic from the left onto the IPv6 address type on the right.



Answer:



NEW QUESTION: 222

What is the path for traffic sent from one user workstation to another workstation on a separate switch in a three-tier architecture model?

- A. access - distribution - distribution - access
- B. access - core - distribution - access
- C. access - core - access
- D. access - distribution - core - distribution - access

Answer: D (LEAVE A REPLY)

NEW QUESTION: 223

Which two protocols must be disabled to increase security for management connections to a Wireless LAN Controller? (Choose two)

- A. HTTPS
- B. SSH
- C. Telnet
- D. HTTP
- E. TFTP

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 224

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. 2002:db84:3f37:ca98:be05:8/64
- D. FF00:1/12

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 225

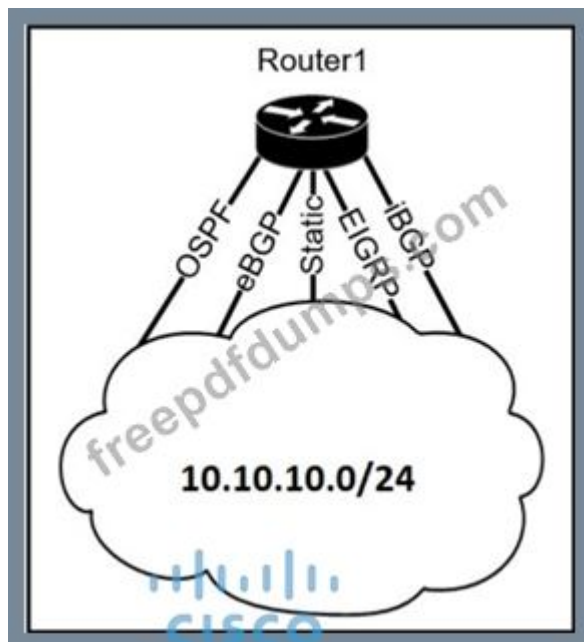
Which action implements physical access control as part of the security program of an organization?

- A. setting up IP cameras to monitor key infrastructure
- B. configuring a password for the console port
- C. backing up syslogs at a remote location
- D. configuring enable passwords on network devices

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 226

Refer to the exhibit.



The Router1 routing table has multiple methods to reach 10.10.10.0/24 as shown. The default Administrative Distance is used. Drag and drop the network conditions from the left onto the routing methods that Router1 uses on the right.

All protocols are up.	eBGP
OSPF and eBGP are down.	
The static route and eBGP are down.	EIGRP
The static route and EIGRP are down.	
The static route and OSPF are down.	Static

Answer:

All protocols are up.	eBGP
OSPF and eBGP are down.	All protocols are up.
The static route and eBGP are down.	OSPF and eBGP are down.
The static route and EIGRP are down.	EIGRP
The static route and OSPF are down.	The static route and EIGRP are down.
	Static
	The static route and OSPF are down.
	The static route and eBGP are down.

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NEW QUESTION: 227

A user configured OSPF in a single area between two routers A serial interface connecting R1 and R2 is running encapsulation PPP By default which OSPF network type is seen on this interface when the user types show ip ospf interface on R1 or R2?

- A. port-to-multipoint
- B. broadcast
- C. point-to-point
- D. nonbroadcast

Answer: C (LEAVE A REPLY)

The default OSPF network type for HDLC and PPP on Serial link is point-to-point (while the default OSPF network type for Ethernet link is Broadcast).

NEW QUESTION: 228

Which technology is appropriate for communication between an SDN controller and applications running over the network?

- A. OpenFlow
- B. REST API
- C. Southbound API
- D. NETCONF

Answer: B (LEAVE A REPLY)

NEW QUESTION: 229

What is the expected outcome when an EUI-64 address is generated?

- A. The seventh bit of the original MAC address of the interface is inverted
- B. The characters FE80 are inserted at the beginning of the MAC address of the interface
- C. The interface ID is configured as a random 64-bit value
- D. The MAC address of the interface is used as the interface ID without modification

Answer: (SHOW ANSWER)

NEW QUESTION: 230

What are two advantages of implementing a controller-based architecture instead of a traditional network architecture?

(Choose two.)

- A. It enables configuration task automation.
- B. It allows for seamless connectivity to virtual machines.
- C. It supports complex and high-scale IP addressing schemes.
- D. It provides increased scalability and management options.
- E. It increases security against denial-of-service attacks.

Answer: A,D (LEAVE A REPLY)

NEW QUESTION: 231

Refer to Exhibit.

```
{
  "Routers": ["R1", "R2", "R3"],
  "Switches": ["SW1", "SW2", "SW3"]
}
```

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

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 232

What does physical access control regulate?

- A. access to specific networks based on business function
- B. access to servers to prevent malicious activity
- C. access to computer networks and file systems
- D. access to networking equipment and facilities

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 233

Drag and drop the QoS congestion management terms from the left onto the description on the right.

CBWFQ	places packets into one of four priority-based queues
CQ	provides guaranteed bandwidth to a specified class of traffic
FIFO	provides minimum guaranteed bandwidth to one or more flows
PQ	services a specified number of bytes in one queue before continuing to the next queue
WFQ	uses store-and-forward queueing

Answer:



NEW QUESTION: 234

What is the maximum bandwidth of a T1 point-to-point connection?

- A. 1.544 Mbps
- B. 2.048 Mbps
- C. 34.368 Mbps
- D. 43.7 Mbps

Answer: A (LEAVE A REPLY)

[https://www.bsimplify.com/what-is-point-to-point-t1/#:~:text=A%20Point%20to%20Point%20T1,data%20speeds%20\(1.54Mbps\).](https://www.bsimplify.com/what-is-point-to-point-t1/#:~:text=A%20Point%20to%20Point%20T1,data%20speeds%20(1.54Mbps).)

Point to Point T1

A Point to Point T1 service is a private data connection securely connecting two or more locations with T1 data speeds (1.54Mbps).

NEW QUESTION: 235

An email user has been lured into clicking a link in an email sent by their company's security organization. The webpage that opens reports that it was safe but the link could have contained malicious code. Which type of security program is in place?

- A. Physical access control
- B. Social engineering attack
- C. brute force attack
- D. user awareness

Answer: (SHOW ANSWER)

This is a training program which simulates an attack, not a real attack (as it says "The webpage that opens reports that it was safe") so we believed it should be called a "user awareness" program. Therefore the best answer here should be "user awareness". This is the definition of "User awareness" from CCNA 200- 301 Official Cert Guide Book: "User awareness: All users should be made aware of the need for data confidentiality to protect corporate information, as well as their own credentials and personal information. They should also be made aware of potential threats, schemes to mislead, and proper

procedures to report security incidents. " Note: Physical access control means infrastructure locations, such as network closets and data centers, should remain securely locked.

NEW QUESTION: 236

What causes a port to be placed in the err-disabled state?

- A. latency
- B. port security violation
- C. shutdown command issued on the port
- D. nothing plugged into the port

Answer: B (LEAVE A REPLY)

This mode is the default violation mode; when in this mode, the switch will automatically force the switchport into an error disabled (err-disable) state when a violation occurs. While in this state, the switchport forwards no traffic. The switchport can be brought out of this error disabled state by issuing the errdisable recovery cause CLI command or by disabling and reenabling the switchport.

NEW QUESTION: 237

What is the difference in data transmission delivery and reliability between TCP and UDP?

- A. UDP is used for multicast and broadcast communication. TCP is used for unicast communication and transmits data at a higher rate with error checking.
- B. TCP transmits data at a higher rate and ensures packet delivery. UDP retransmits lost data to ensure applications receive the data on the remote end.
- C. UDP sets up a connection between both devices before transmitting data. TCP uses the three-way handshake to transmit data with a reliable connection.
- D. TCP requires the connection to be established before transmitting data. UDP transmits data at a higher rate without ensuring packet delivery.

Answer: D (LEAVE A REPLY)

NEW QUESTION: 238

Refer to the exhibit.

```

SW1(config-line)#line vty 0 15
SW1(config-line)#no login local
SW1(config-line)#password cisco

SW2(config)#username admin1 password abcd1234
SW2(config)#username admin2 password abcd1234
SW2(config-line)#line vty 0 15
SW2(config-line)#login local

SW3(config)#username admin1 secret abcd1234
SW3(config)#username admin2 secret abcd1234
SW3(config-line)#line vty 0 15
SW3(config-line)#login local

SW4(config)#username admin1 secret abcd1234
SW4(config)#username admin2 secret abcd1234
SW4(config-line)#line console 0
SW4(config-line)#login local

```

An administrator configures four switches for local authentication using passwords that are stored in a cryptographic hash. The four switches must also support SSH access for administrators to manage the network infrastructure. Which switch is configured correctly to meet these requirements?

- A. SW4
- B. SW1
- C. SW3
- D. SW2

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 239

What are two improvements provided by automation for network management in an SDN environment? (Choose two)

- A. Proprietary Cisco APIs leverage multiple network management tools.
- B. Artificial intelligence identifies and prevents potential design failures.
- C. Data collection and analysis tools establish a baseline for the network
- D. Machine learning minimizes the overall error rate when automating troubleshooting processes
- E. New devices are onboarded with minimal effort

Answer: (SHOW ANSWER)

NEW QUESTION: 240

Refer to the exhibit.

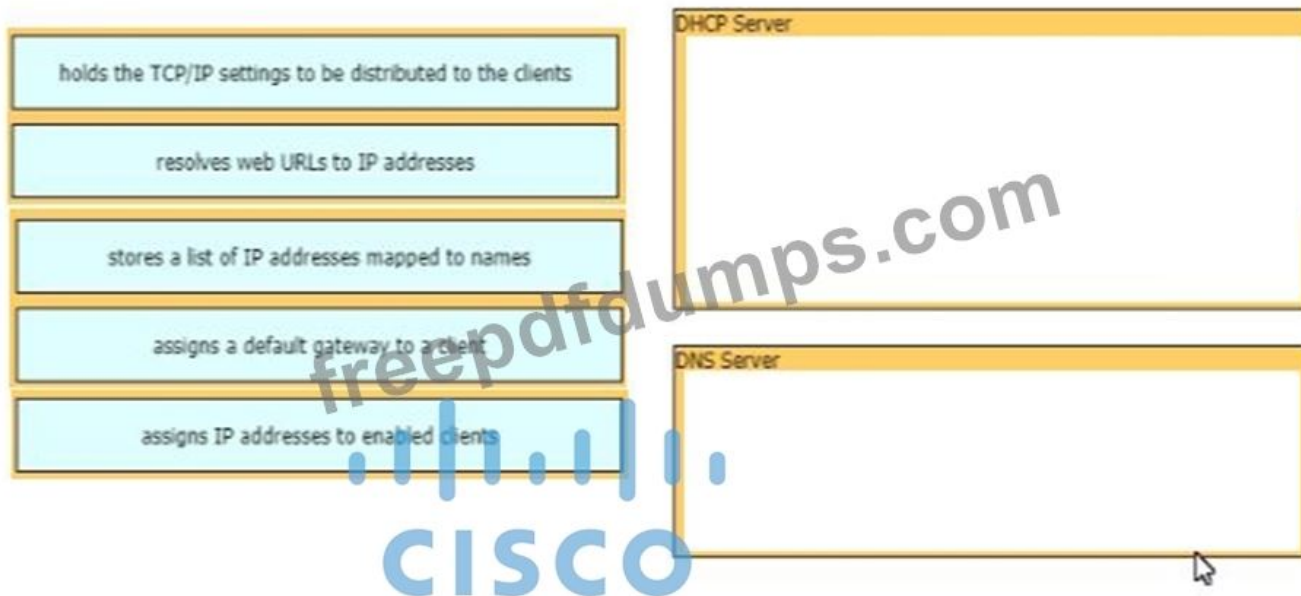
Refer to the exhibit. After the configuration is applied, the two routers fail to establish an OSPF neighbor relationship. what is the reason for the problem?

- A. The OSPF router IDs are mismatched.
- B. Router2 is using the default hello timer.
- C. The network statement on Router1 is misconfigured.
- D. The OSPF process IDs are mismatched.

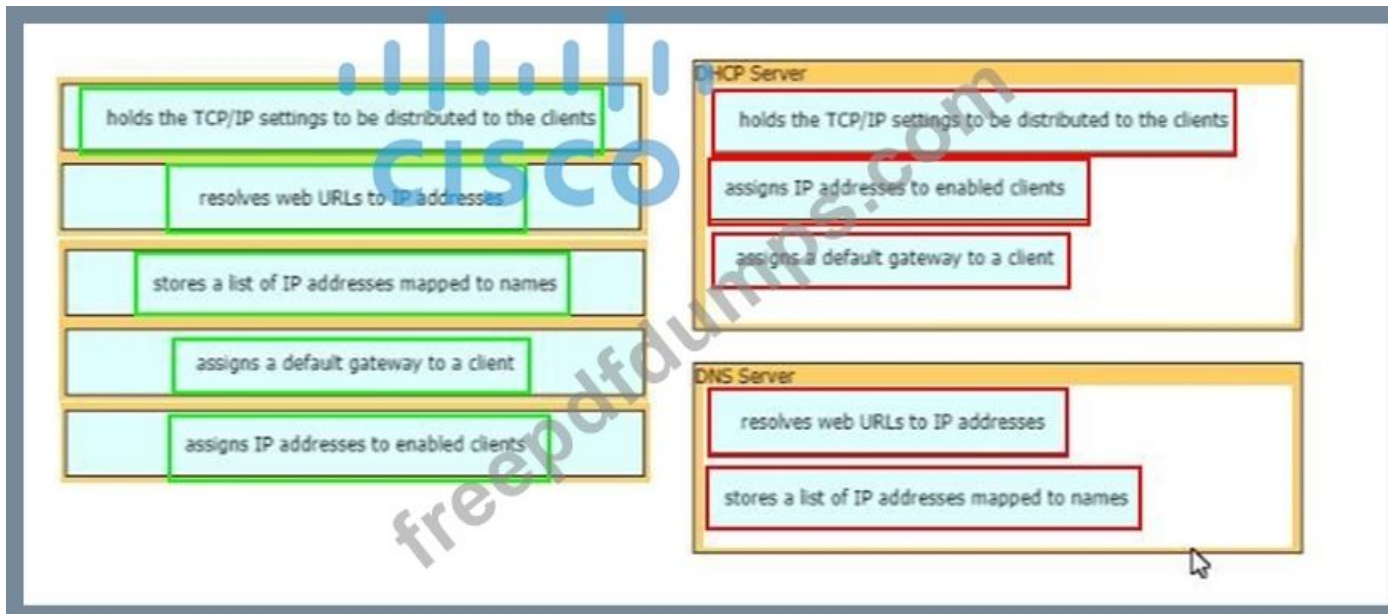
Answer: B (LEAVE A REPLY)

NEW QUESTION: 241

Drag and drop the functions from the left onto the correct network components on the right



Answer:



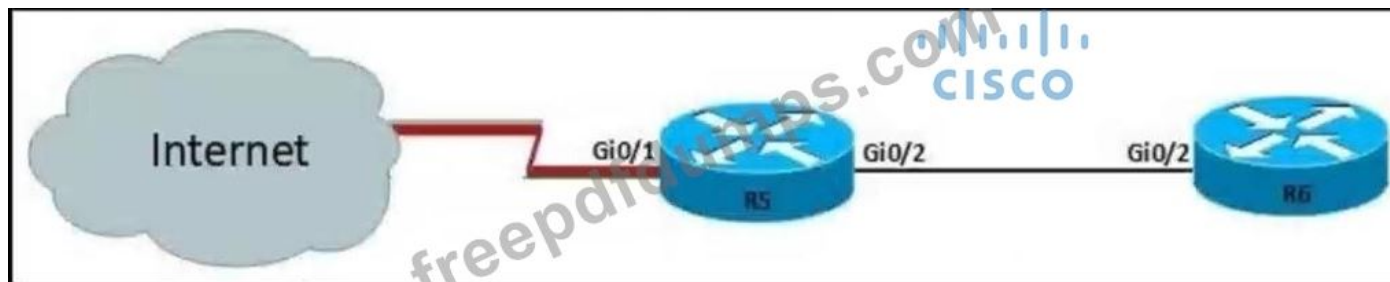
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NEW QUESTION: 242

Refer to the exhibit.



For security reasons, automatic neighbor discovery must be disabled on the R5 Gi0/1 interface. These tasks must be completed:

- * Disable all neighbor discovery methods on R5 interface Gi0/1.
- * Permit neighbor discovery on R5 interface Gi0/2.
- * Verify there are no dynamically learned neighbors on R5 interface Gi0/1.
- * Display the IP address of R6's interface Gi0/2.

Which configuration must be used?

R5(config)#int Gi0/1
R5(config-if)#no cdp run
R5(config-if)#exit
R5(config)#lldp run
R5(config)#cdp enable
R5#sh cdp neighbor
R5#sh lldp neighbor

R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#no lldp run
R5(config)#cdp run
R5#sh cdp neighbor
R5#sh lldp neighbor

R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#no lldp run
R5(config)#cdp run
R5#sh cdp neighbor detail
R5#sh lldp neighbor

R5(config)#int Gi0/1
R5(config-if)#no cdp enable
R5(config-if)#exit
R5(config)#lldp run
R5(config)#no cdp run
R5#sh cdp neighbor detail
R5#sh lldp neighbor

- A. Option B
- B. Option C
- C. Option D
- D. Option A

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 243

Refer to the exhibit.

```

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]

```

What are two conclusions about this configuration? {Choose two.}

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 244

Which networking function occurs on the data plane?

- A. facilitates spanning-tree elections
- B. sending and receiving OSPF Hello packets
- C. processing inbound SSH management traffic
- D. forwarding remote client/server traffic

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 245

A Cisco engineer must configure a single switch interface to meet these requirements

- * accept untagged frames and place them in VLAN 20
- * accept tagged frames in VLAN 30 when CDP detects a Cisco IP phone

Which command set must the engineer apply?

- A.


```

switchport mode dynamic auto
switchport trunk native vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30

```
- B.


```

switchport mode dynamic desirable
switchport access vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30

```

- switchport mode trunk
- switchport access vlan 20
- switchport voice vlan 30
- C. switchport mode access
- switchport access vlan 20
- D. switchport voice vlan 30

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 246

A frame that enters a switch fails the Frame Check Sequence. Which two interface counters are incremented? (Choose two)

- A. runts
- B. giants
- C. frame
- D. CRC
- E. input errors

Answer: D,E ([LEAVE A REPLY](#))

Whenever the physical transmission has problems, the receiving device might receive a frame whose bits have changed values. These frames do not pass the error detection logic as implemented in the FCS field in the Ethernet trailer. The receiving device discards the frame and counts it as some kind of input error.

Cisco switches list this error as a CRC error. Cyclic redundancy check (CRC) is a term related to how the FCS math detects an error.

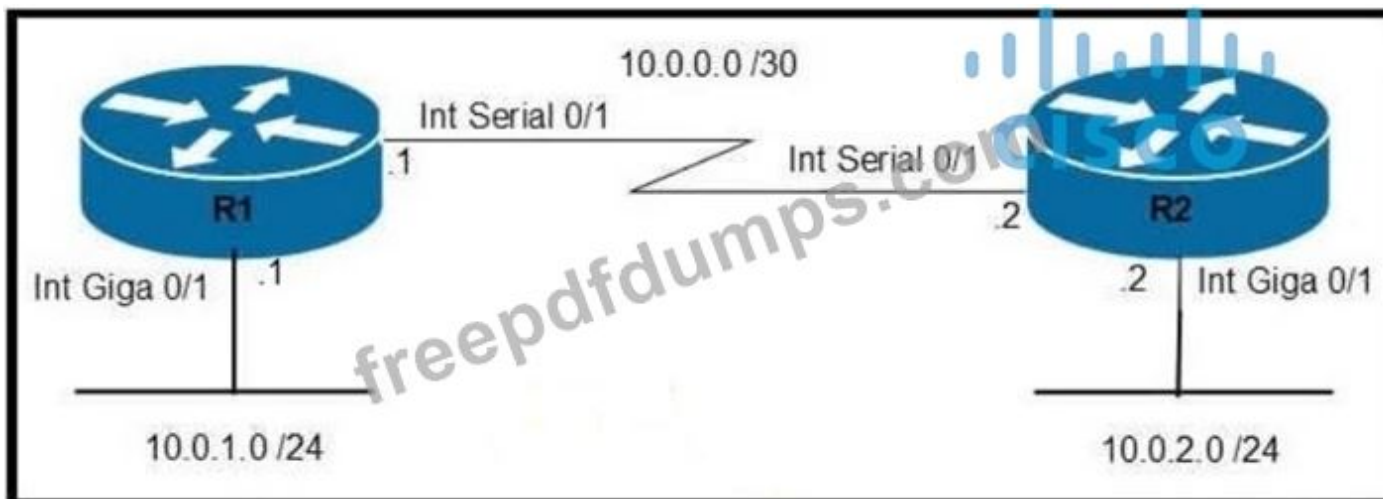
The "input errors" includes runts, giants, no buffer, CRC, frame, overrun, and ignored counts.

The output below show the interface counters with the "show interface s0/0/0" command:

```
Router#show interface s0/0/0
Serial0/0/0 is up, line protocol is up
  Hardware is M4T
  Description: Link to R2
  Internet address is 10.1.1.1/30
  MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec
    reliability 255/255, txload 1/255, rxload 1/255
  --output omitted--
  5 minute output rate 0 bits/sec, 0 packets/sec
    268 packets input, 24889 bytes, 0 no buffer
    Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
    251 packets output, 23498 bytes, 0 underruns
    0 output errors, 0 collisions, 0 interface resets
    0 output buffer failures, 0 output buffers swapped out
    0 carrier transitions      DCD=up   DSR=up   DTR=up   RTS=up   CTS=up
```

NEW QUESTION: 247

Refer to the exhibit.



Which command configures OSPF on the point-to-point link between routers R1 and R2?

- A. network 10.0.0.0 0.0.0.255 area 0
- B. neighbor 10.1.2.0 cost 180
- C. ipospf priority 100
- D. router-id 10.0.0.15

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 248

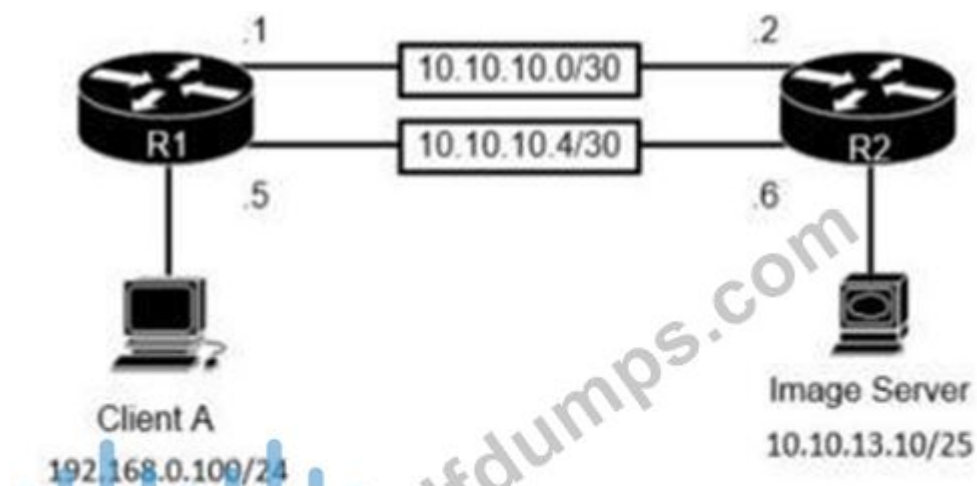
Which two WAN architecture options help a business scalability and reliability for the network? (Choose two)

- A. dynamic routing
- B. asynchronous routing
- C. static routing
- D. single-homed branches
- E. dual-homed branches

Answer: B,E ([LEAVE A REPLY](#))

NEW QUESTION: 249

Refer to the exhibit.



```
R1#show ip route
Gateway of last resort is 10.10.10.2 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 10.10.10.2
```

```
R2#show ip route
Gateway of last resort is 10.10.10.1 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 10.10.10.1
```

The image server and client A are running an application that transfers an extremely high volume of data between the two. An engineer is configuring a dedicated circuit between R1 and R2. Which set of commands must the engineer apply to the routers so that only traffic between the image server and client A is forced to use the new circuit?

- A. R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.2
R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.1
- B. R1(config)#ip route 10.10.13.10 255.255.255.252 10.10.10.6
R2(config)#ip route 192.168.0.100 255.255.255.252 10.10.10.5
- C. R1(config)#ip route 10.10.13.10 255.255.255.255 10.10.10.6
R2(config)#ip route 192.168.0.100 255.255.255.255 10.10.10.5
- D. R1(config)#ip route 10.10.13.10 255.255.255.128 10.10.10.6
R2(config)#ip route 192.168.0.100 255.255.255.0 10.10.10.5

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 250

Which two minimum parameters must be configured on an active interface to enable OSPFv2 to operate? (Choose two)

- A. OSPf stub flag
- B. OSPF area
- C. OSPf process ID
- D. OSPF MD5 authentication key
- E. IPv6 address

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 251

Which interface mode must be configured to connect the lightweight APs in a centralized architecture?

- A. WLAN dynamic
- B. management
- C. trunk
- D. access

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 252

Drag and drop the characteristics of networking from the left onto the networking types on the right.

focused on network

focused on devices

user input is a configuration

user input is a policy

uses allow list security model

uses block list security model

Controller-Based Networking

Traditional Networking

Answer:

focused on network

focused on devices

user input is a configuration

user input is a policy

uses allow list security model

uses block list security model

Controller-Based Networking

focused on network

uses allow list security model

user input is a policy

Traditional Networking

focused on devices

uses block list security model

user input is a configuration

NEW QUESTION: 253

Refer to the exhibit.

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

```
interface Serial0
```

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

A network administrator must permit traffic from the 10.10.0.0/24 subnet to the WAN on interlace Seria10. 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 router accepts all incoming traffic to Seria10 with the last octet of the source IP set to 0.
- C. The permit command fails and returns an error code.
- D. The sourced traffic from IP range 10.0.0.0 -10.0.0.255 is allowed on Seria10.

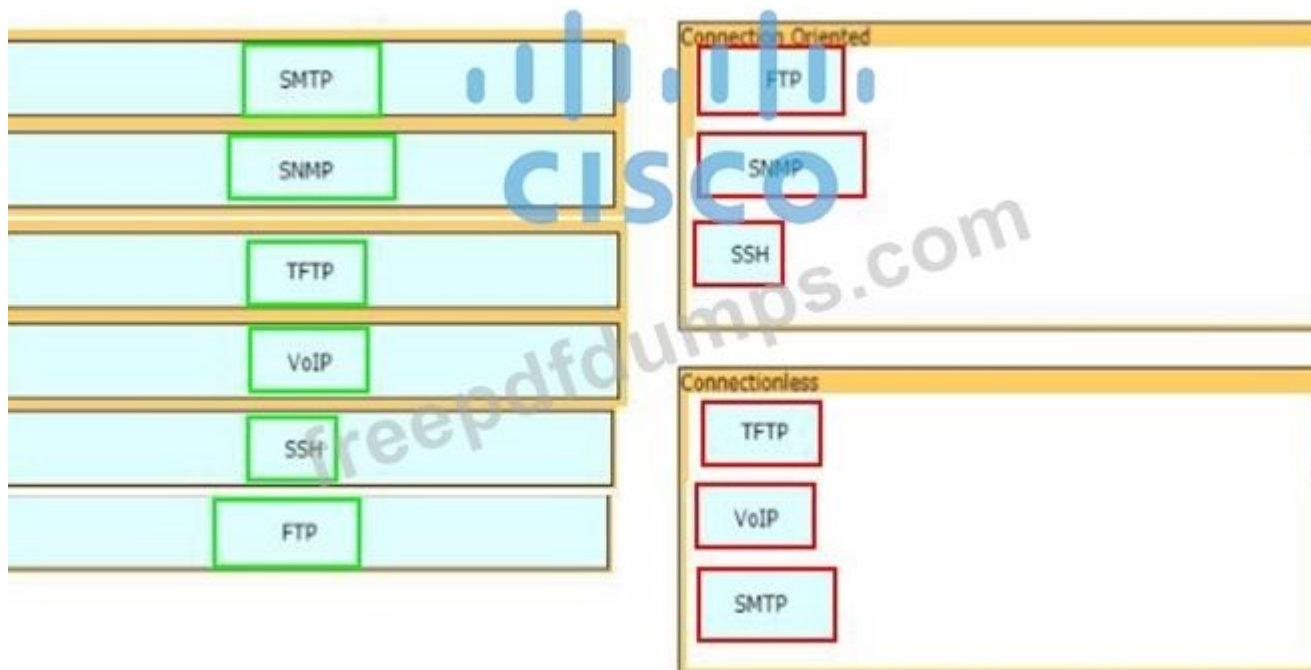
Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 254

Drag and drop the network protocols from the left onto the correct transport services on the right.

The interface shows a list of network protocols on the left and two categories of transport services on the right. The protocols are: SMTP, SNMP, TFTP, VoIP, SSH, and FTP. The transport services are: Connection Oriented and Connectionless.

Answer:



NEW QUESTION: 255

In software-defined architecture, which plane handles switching for traffic through a Cisco router?

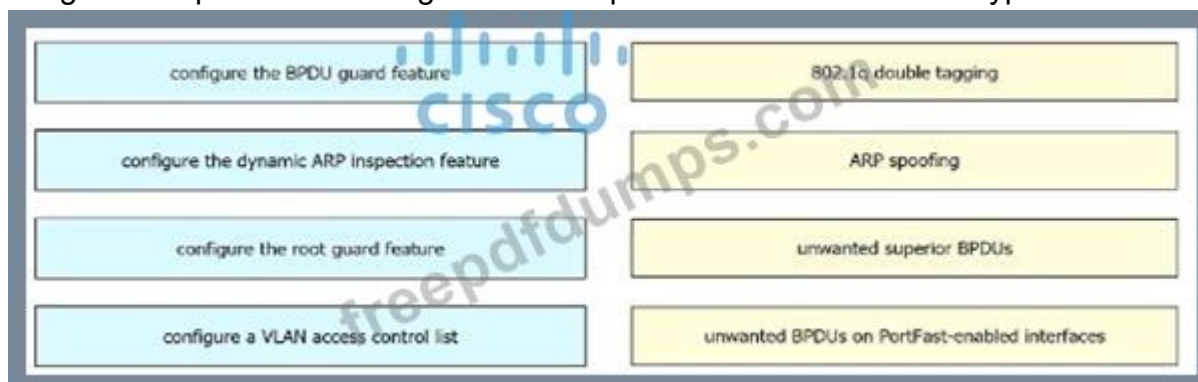
- A. Control
- B. Management
- C. Data
- D. application

Answer: C (LEAVE A REPLY)

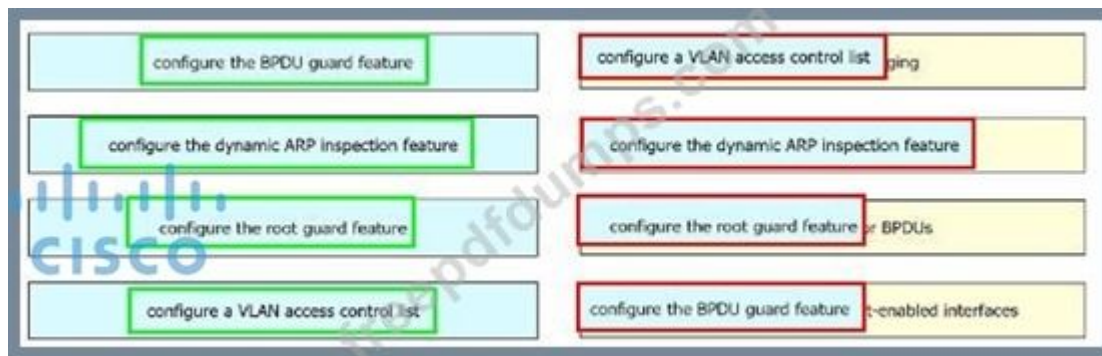
Data plane-Handles all the data traffic. The basic functionality of a Cisco NX-OS device is to forward packets from one interface to another. The packets that are not meant for the switch itself are called the transit packets. These packets are handled by the data plane

NEW QUESTION: 256

Drag and drop the threat-mitigation techniques from the left onto the types of threat or attack they mitigate on the right.



Answer:



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NEW QUESTION: 257

What is a similarity between 1000BASE-LX and 1000BASE-T standards?

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

Answer: A (**LEAVE A REPLY**)

"In computer networking, Gigabit Ethernet (GbE or 1 GigE) is the term applied to transmitting Ethernet frames at a rate of a gigabit per second." Both standards use Ethernet framing (same headers and trailers)

NEW QUESTION: 258

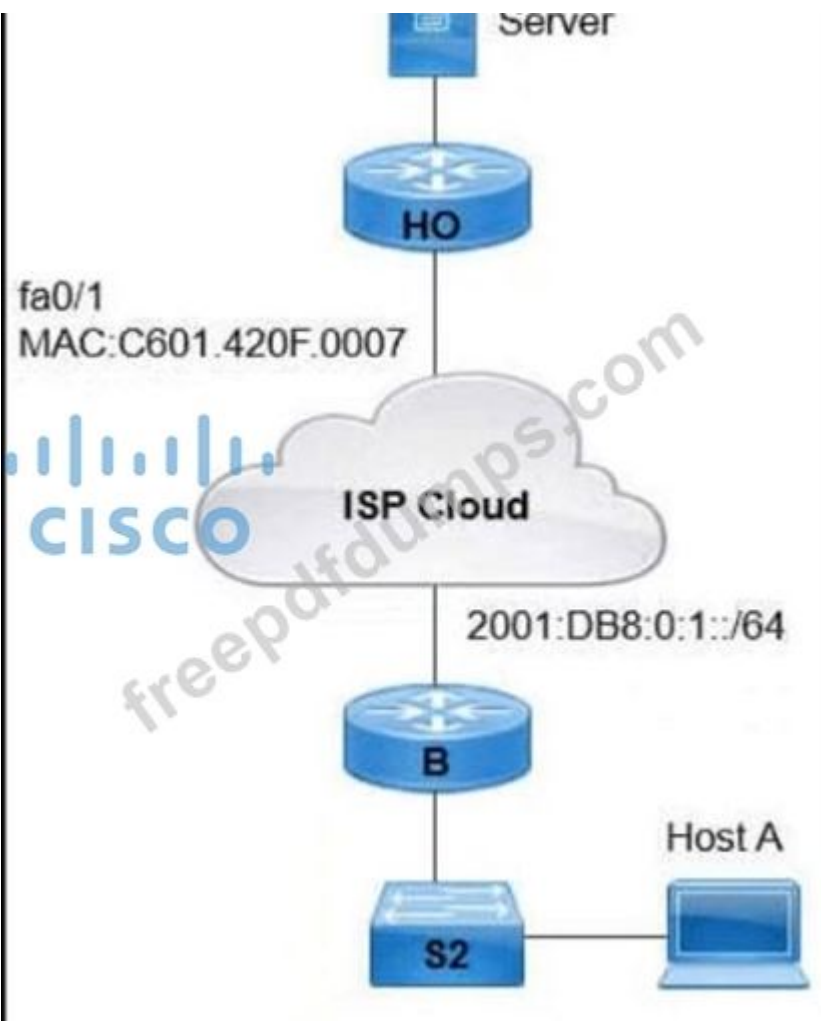
What is a link-local all-nodes IPv6 multicast address?

- A. fe80:4433:034:0dd::2
- B. ff02:0:0:0:0:0:1
- C. fffe:034:0dd:45d6:789e::
- D. 2004:31c:73d9:683e:255::

Answer: A (**LEAVE A REPLY**)

NEW QUESTION: 259

Refer to the exhibit.



An engineer is configuring the HO router. Which IPv6 address configuration must be applied to the router fa0/1 interface for the router to assign a unique 64-bit IPv6 address to itself?

- A. ipv6 address 2001:DB8:0:1:C601:42FF:FE0F:7/64
- B. ipv6 address 2001:DB8:0:1:C601:42FE:800F:7/64
- C. ipv6 address 2001 :DB8:0:1:FE80:C601:420F:7/64
- D. ipv6 address 2001 :DB8:0:1:FFFF:C601:420F:7/64

Answer: A (LEAVE A REPLY)

NEW QUESTION: 260

Refer to the exhibit.

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

What is the subnet mask of the route to the 10.10.13.160 prefix?

- A. 255.255.255.240
- B. 255.255.248.
- C. 255.255.255.128
- D. 255.255.255.248

Answer: D (LEAVE A REPLY)

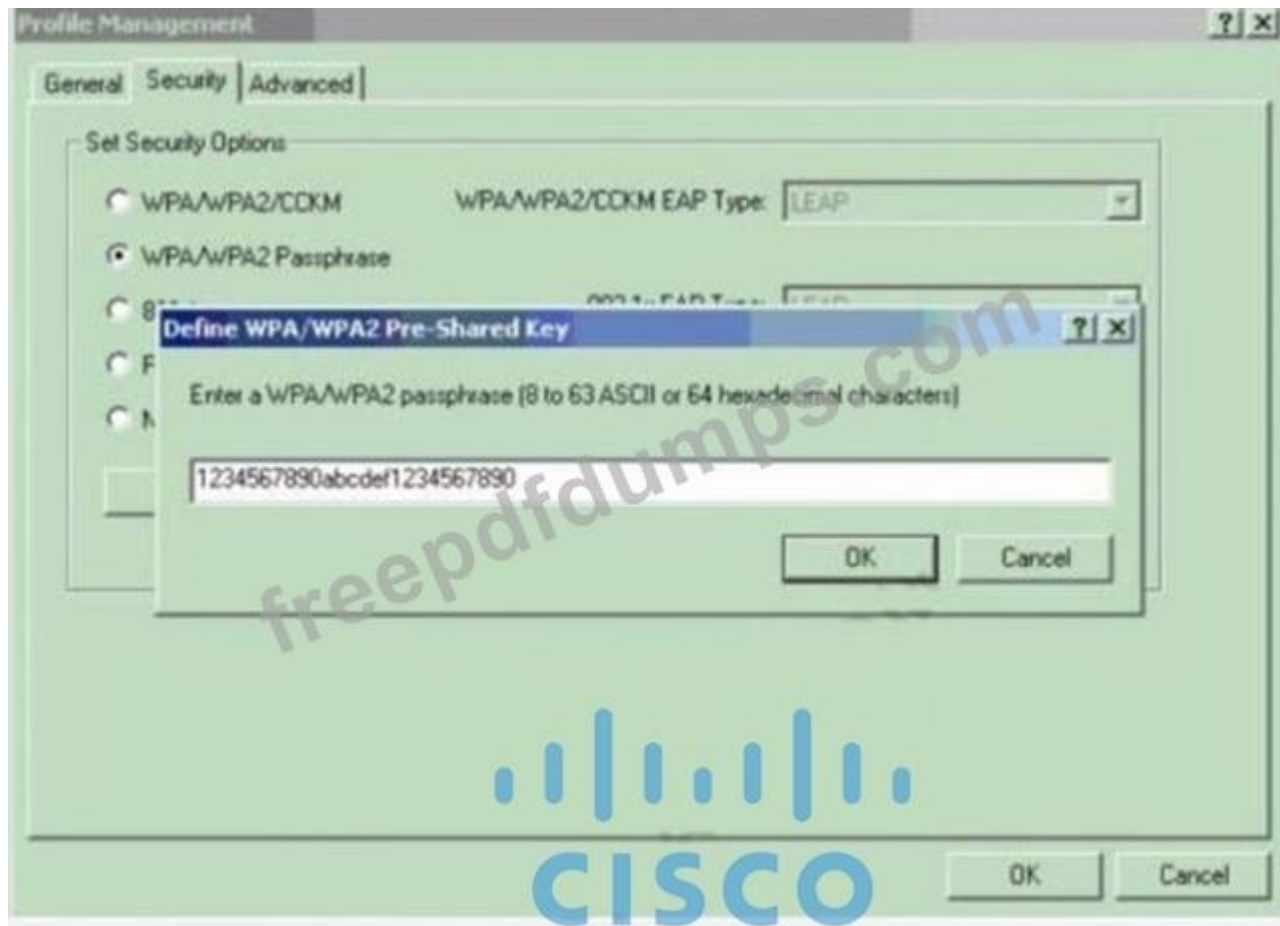
NEW QUESTION: 261

Which type of wireless encryption is used for WPA2 in preshared key mode?

- A. TKIP with RC4
- B. RC4
- C. AES-128
- D. AES-256

Answer: D (LEAVE A REPLY)

We can see in this picture we have to type 64 hexadecimal characters (256 bit) for the WPA2 passphrase so we can deduce the encryption is AES-256, not AES-128.



<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/67134-wpa2-config.html>

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 263

Why was the RFC 1918 address space defined?

- A. support the NAT protocol
- B. preserve public IPv6 address space
- C. conserve public IPv4 addressing
- D. reduce instances of overlapping IP addresses

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 264

If a switch port receives a new frame while it is actively transmitting a previous frame, how does it process the frames?

- A. The new frame is placed in a queue for transmission after the previous frame.
- B. The new frame is delivered first, the previous frame is dropped, and a retransmission request is sent.
- C. The two frames are processed and delivered at the same time.
- D. The previous frame is delivered, the new frame is dropped, and a retransmission request is sent.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 265

Which switch technology establishes a network connection immediately when it is plugged in?

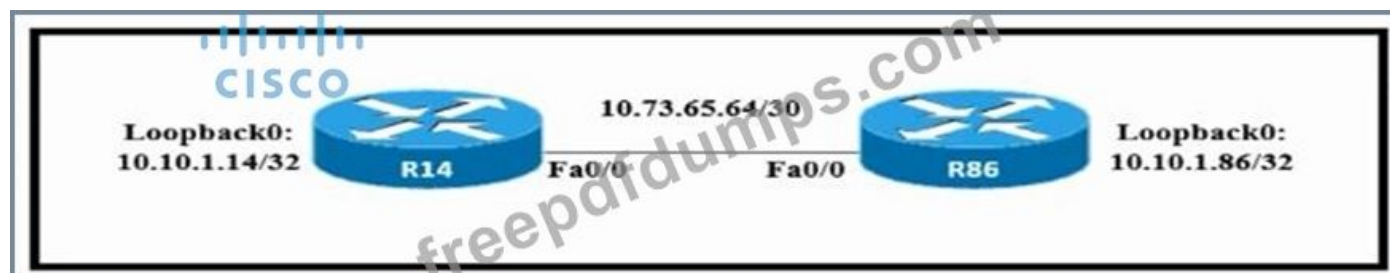
- A. PortFast
- B. BPDU guard
- C. UplinkFast
- D. BackboneFast

Answer: ([SHOW ANSWER](#))

PortFast is useful to connect hosts and switches to a switch. Access layer switches are more frequently "plugged in" and "plugged out" than distribution or core layer switches. Also, this feature's target is just to minimize STP convergence time.

NEW QUESTION: 266

Refer to the exhibit.



Which configuration allows routers R14 and R86 to form an OSPFv2 adjacency while acting as a central point for exchanging OSPF information between routers?

A)

```

R14#
interface Loopback0
ip ospf 10 area 0

interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
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 network broadcast
ip ospf 10 area 0
ip mtu 1500

```

B)

```

R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
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 ospf network broadcast
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

```

C)

```

R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
ip ospf priority 0
ip mtu 1400

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 Loopback0
ip address 10.10.1.86 255.255.255.255

```

D)

```

R14#
interface FastEthernet0/0
ip address 10.73.65.65 255.255.255.252
ip ospf network broadcast
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 ospf network broadcast
ip mtu 1400

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

```

A. Option B

B. Option A

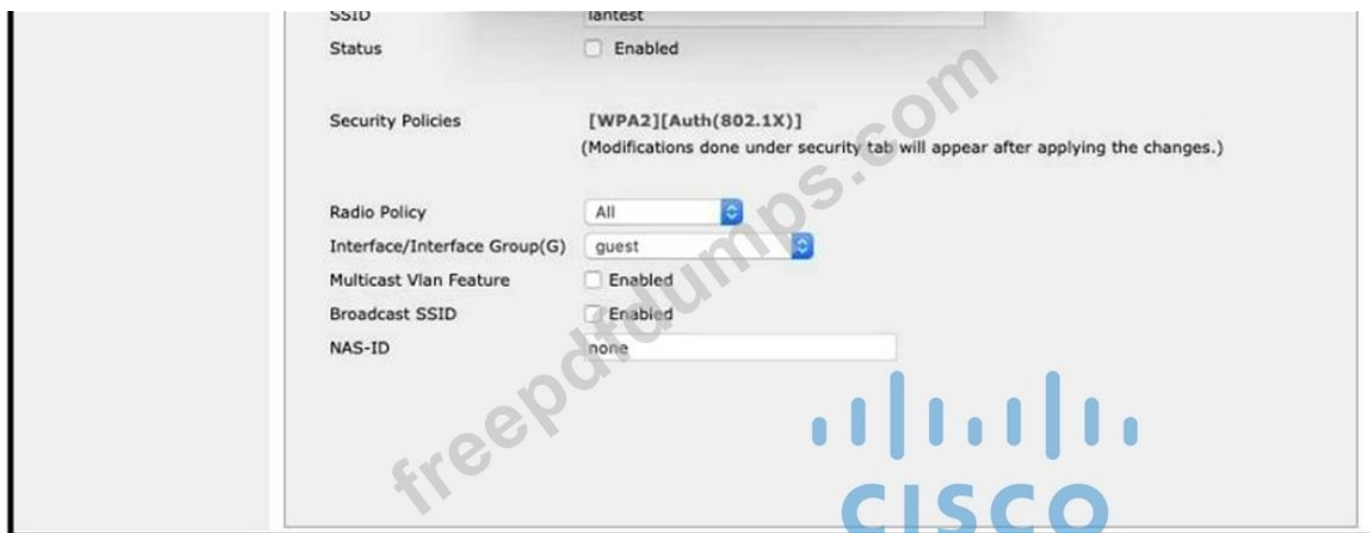
C. Option C

D. Option D

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 267

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. Set the Radio Policy option to 802 11g Only.
- B. Set the Radio Policy option to 802.11a Only.
- C. Set the Interface/Interface Group(G) to an interface other than guest
- D. Enable the Broadcast SSID option
- E. Enable the Status option.

Answer: D,E ([LEAVE A REPLY](#))

NEW QUESTION: 268

Refer to the exhibit.

```

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

```

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

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

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 269

Which protocol requires authentication to transfer a backup configuration file from a router to a remote server?

- A. TFTP
- B. FTP
- C. DTP
- D. SMTP

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 270

Several new coverage cells are required to improve the Wi-Fi network of an organization. Which two standard designs are recommended? (choose two.)

- A. Adjacent cells with overlapping channels use a repeater access point.
- B. For maximum throughput, the WLC is configured to dynamically set adjacent access points to the same channel.
- C. Cells that overlap one another are configured to use nonoverlapping channels.
- D. 5GHz provides increased network capacity with up to 23 nonoverlapping channels.
- E. 5GHz channel selection requires an autonomous access point.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 271

Refer to the exhibit.



An engineer has started to configure replacement switch SW1. To verify part of the configuration, the engineer issued the commands as shown and noticed that the entry for PC2 is missing. Which change must be applied to SW1 so that PC1 and PC2 communicate normally?

A)

```
SW1(config)#interface fa0/2
SW1(config-if)#no switchport mode trunk
SW1(config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport mode access
```

B)

```
SW1(config)#interface fa0/1
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#switchport trunk native vlan 2
SW1(config-if)#switchport trunk allowed vlan 3
```

C)

```
SW1(config)#interface fa0/1
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#switchport access vlan 3
SW1(config-if)#switchport trunk allowed vlan 2
```

D)

```
SW1(config)#interface fa0/2
SW1(config-if)#no switchport access vlan 2
SW1(config-if)#no switchport trunk allowed vlan 3
SW1(config-if)#switchport trunk allowed vlan 2
```

A. Option A

B. Option C

C. Option D

D. Option B

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 272

Which two components comprise part of a PKI? (Choose two.)

A. preshared key that authenticates connections

B. one or more CRLs

C. RSA token

D. clear-text password that authenticates connections

E. CA that grants certificates

Answer: C,E ([LEAVE A REPLY](#))

NEW QUESTION: 273

Refer to the exhibit.

```
SW1#show run int gig 0/1
interface GigabitEthernet0/1
  switchport access vlan 11
  switchport trunk allowed vlan 1-10
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 5
  switchport mode trunk
  speed 1000
  duplex full
```

Which action is expected from SW1 when the untagged frame is received on the GigabitEthernet0/1 interface?

- A. The frame is dropped
- B. The frame is processed in VLAN 1
- C. The frame is processed in VLAN 11
- D. The frame is processed in VLAN 5.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 274

Which type of IPv6 address is publicly routable in the same way as IPv4 public address?

- A. multicast
- B. unique local
- C. global unicast
- D. link-local

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 275

Refer to the exhibit.



```
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 on
```

```
SW1#show run interface fastEthernet 0/2
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 100,200,300
channel-group 1 mode on
```

```
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
```

An engineer built a new L2 LACP EtherChannel between SW1 and SW2 and executed these show commands to verify the work. Which additional task allows the two switches to establish an LACP port channel?

- A. Change the channel-group mode on SW2 to auto
- B. Change the channel-group mode on SW1 to desirable.
- C. Change the channel-group mode on SW1 to active or passive.
- D. Configure the interface port-channel 1 command on both switches.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 276

Which type of information resides on a DHCP server?

- A. usernames and passwords for the end users in a domain
- B. a list of the available IP addresses in a pool
- C. a list of statically assigned MAC addresses
- D. a list of public IP addresses and their corresponding names

Answer: B (LEAVE A REPLY)

NEW QUESTION: 277

What is the primary effect of the spanning-tree portfast command?

- A. it enables BPDU messages
- B. It immediately puts the port into the forwarding state when the switch is reloaded
- C. It immediately enables the port in the listening state
- D. It minimize spanning-tree convergence time

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 278

What determines the sequence in which materials are planned during the material requirements planning (MRP) run?

- A. The low-level code of the materials
- B. The creation date of the materials
- C. The control parameters of the MRP run
- D. The replenishment lead time of the materials

Answer: (SHOW ANSWER)

NEW QUESTION: 279

Drag and drop the characteristics of device-management technologies from the left onto the corresponding deployment types on the right.

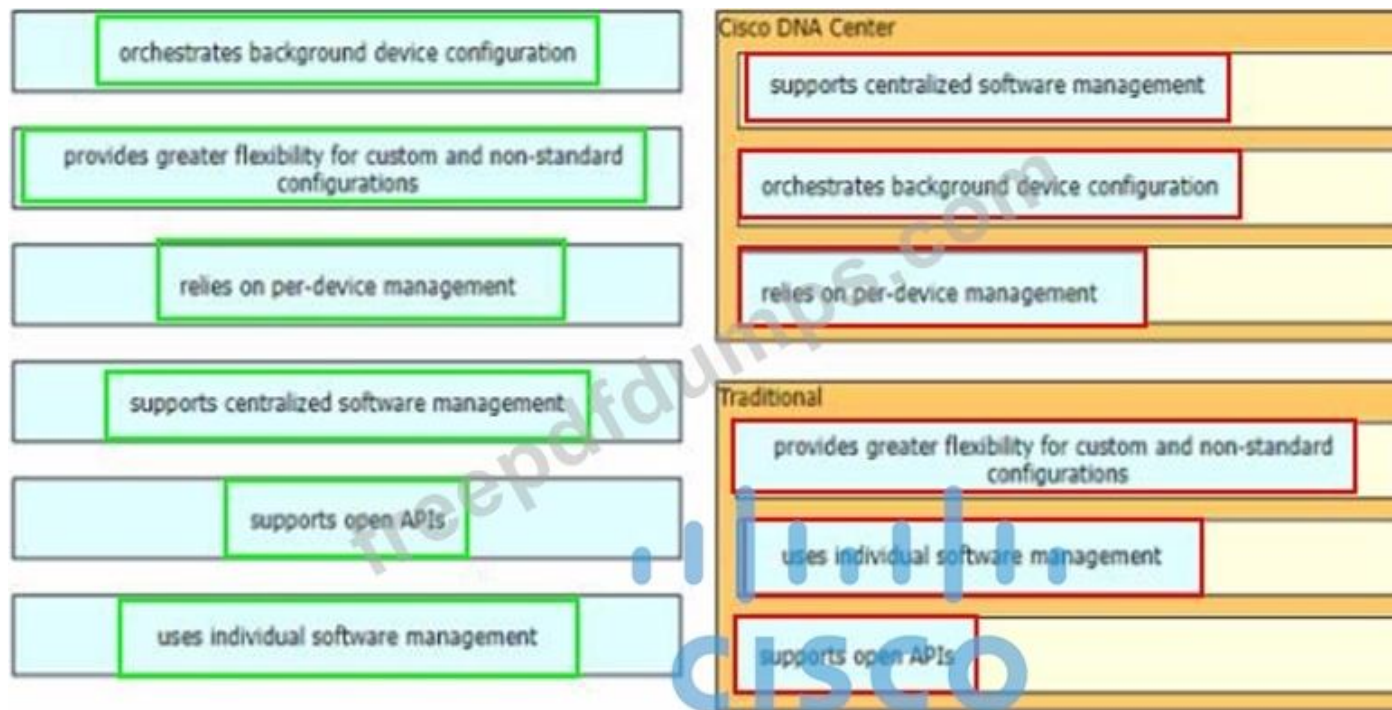
Characteristics (Left):

- orchestrates background device configuration
- provides greater flexibility for custom and non-standard configurations
- relies on per-device management
- supports centralized software management
- supports open APIs
- uses individual software management

Deployment Types (Right):

- Cisco DNA Center
- Traditional

Answer:



NEW QUESTION: 280

How do AAA operations compare regarding user identification, user services and access control?

- A. Authentication identifies users and accounting tracks user services
- B. Authorization provides access control and authentication tracks user services
- C. Authorization identifies users and authentication provides access control
- D. Accounting tracks user services, and authentication provides access control

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 281

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

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

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 282

What is the purpose of configuring different levels of syslog for different devices on the network?

- A. to set the severity of syslog messages from each device
- B. to rate-limit messages for different severity levels from each device
- C. to control the number of syslog messages from different devices that are stored locally
- D. to identify the source from which each syslog message originated

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 283

A router has two static routes to the same destination network under the same OSPF process. How does the router forward packets to the destination if the next-hop devices are different?

- A. The router chooses the next hop with the lowest IP address.
- B. The router chooses the next hop with the lowest MAC address.
- C. The router chooses the route with the oldest age.
- D. The router load-balances traffic over all routes to the destination.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 284

Refer to the exhibit.

```
R1#show ip route
#output suppressed

Gateway of last resort is 192.168.14.4 to network 0.0.0.0

C    172.16.1.128/25 is directly connected, GigabitEthernet1/1/0
C    192.168.12.0/24 is directly connected, FastEthernet0/0
C    192.168.13.0/24 is directly connected, FastEthernet0/1
C    192.168.14.0/24 is directly connected, FastEthernet1/0
C    172.16.16.1 is directly connected, Loopback1
    192.168.10.0/24 is variably subnetted, 3 subnets, 3 masks
O    192.168.10.0.24 [110/2] via 192.168.14.4, 00:02:01, FastEthernet1/0
O    192.168.10.32/27 [110/11] via 192.168.13.3, 00:00:52, FastEthernet0/1
O    192.168.0.0/16 [110/2] via 192.168.15.5, 00:05:01, FastEthernet1/1
D    192.168.10.1/32 [90/52778] via 192.168.12.2, 00:03:44, FastEthernet0/0
O*E2 0.0.0.0/0 [110/1] via 192.168.14.4, 00:00:10, FastEthernet1/0
```

If R1 receives a packet destined to 172.161.1, to which IP address does it send the packet?

- A. 192.168.14.4
- B. 192.168.13.3
- C. 192.168.12.2
- D. 192.168.15.5

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 285

What is an expected outcome when network management automation is deployed?

- A. Custom applications are needed to configure network devices

- B. Software upgrades are performed from a central controller
- C. Complexity increases when new device configurations are added
- D. A distributed management plane must be used.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 286

Refer to the exhibit.

```
Device# configure terminal
Device(config)# netconf ssh acl 1
Device(config)# netconf lock-time 100
Device(config)# netconf max-sessions 1
Device(config)# netconf ma-message 10
```

A network engineer must configure NETCONF. After creating the configuration, the engineer gets output from the command show line but not from show running- config. Which command completes the configuration?

- A. Device(config)# netconf max-sessions 100
- B. Device(config)# no netconf ssh acl 1
- C. Device(config)# netconf max-message 1000
- D. Device(config)# netconf lock-time 500

Answer: C (LEAVE A REPLY)

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NEW QUESTION: 287

An engineer is configuring switch SW1 to act an NTP server when all upstream NTP server connectivity fails. Which configuration must be used?

- A.

```
SW1# config t
SW1(config)#ntp backup
SW1(config)#ntp server 192.168.1.1
```
- B.

```
SW1# config t
SW1(config)#ntp master
SW1(config)#ntp server 192.168.1.1
```
- C.

```
SW1# config t
SW1(config)#ntp server 192.168.1.1
SW1(config)#ntp access-group server accesslist1
```
- D.

```
SW1# config t
SW1(config)#ntp peer 192.168.1.1
SW1(config)#ntp access-group peer accesslist1
```

Answer: B (LEAVE A REPLY)

NEW QUESTION: 288

What describes a northbound REST API for SON?

- A. network-element-facing interface for the control and data planes
- B. application-facing interface for GET, POST, PUT, and DELETE methods
- C. network-element-facing interface for GET POST PUT and DELETE methods
- D. application-facing interface for SNMP GET requests

Answer: (SHOW ANSWER)

NEW QUESTION: 289

Refer to the exhibit.

```
Atlanta#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Atlanta(config)#aaa new-model
Atlanta(config)#aaa authentication login default local
Atlanta(config)#line vty 0 4
Atlanta(config-line)#login authentication default
Atlanta(config-line)#exit
Atlanta(config)#username ciscoadmin password adminadmin123
Atlanta(config)#username ciscoadmin privilege 15
Atlanta(config)#enable password cisco123
Atlanta(config)#enable secret testing1234
Atlanta(config)#end
```

Which password must an engineer use to enter the enable mode?

- A. adminadmin123
- B. default
- C. testing 1234
- D. cisco123

Answer: C (LEAVE A REPLY)

If neither the enable password command nor the enable secret command is configured, and if there is a line password configured for the console, the console line password serves as the enable password for all VTY sessions -> The "enable secret" will be used first if available, then "enable password" and line password.

NEW QUESTION: 290

Which type of network attack overwhelms the target server by sending multiple packets to a port until the half-open TCP resources of the target are exhausted?

- A. teardrop
- B. reflection
- C. SYIM flood
- D. amplification

Answer: C (LEAVE A REPLY)

NEW QUESTION: 291

What is a benefit of VRRP?

- A. It provides the default gateway redundancy on a LAN using two or more routers.
- B. It provides traffic load balancing to destinations that are more than two hops from the source.
- C. It prevents loops in a Layer 2 LAN by forwarding all traffic to a root bridge, which then makes the final forwarding decision.
- D. It allows neighbors to share routing table information between each other.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 292

Refer to the exhibit.

RIP	10.1.1.16/28	[120/5]	via	F0/0
OSPF	10.1.1.0/24	[110/30]	via	F0/1
OSPF	10.1.1.0/24	[110/40]	via	F0/2
EIGRP	10.1.0.0/26	[90/20]	via	F0/3
EIGRP	10.0.0.0/8	[90/133]	via	F0/4

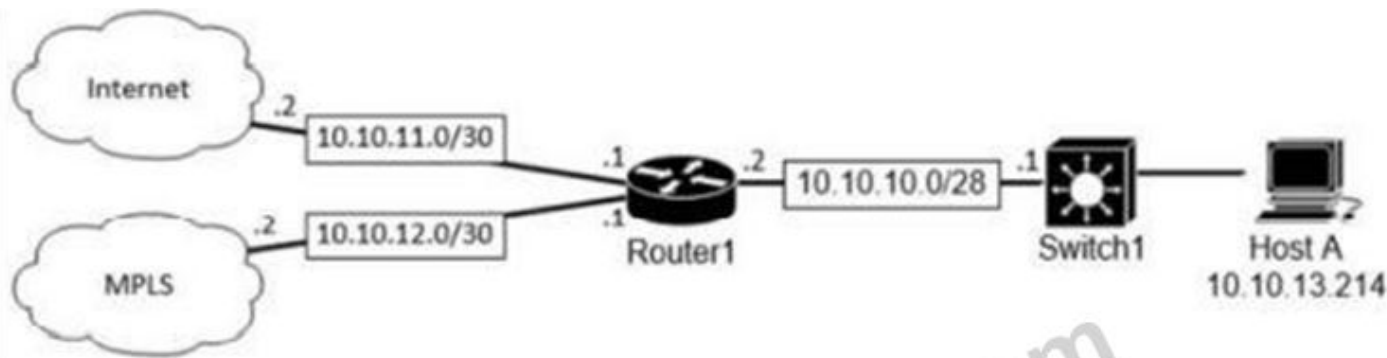
Packets received by the router from BGP enter via a serial interface at 209 165 201 1 Each route is present within the routing table Which interface is used to forward traffic with a destination IP of 10.1.1.19?

- A. F0/1
- B. F0/3
- C. F0/0
- D. F0/4

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 293

Refer to the exhibit.



```

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

```

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

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

Answer: (SHOW ANSWER)

NEW QUESTION: 294

What is a benefit for external users who consume public cloud resources?

- A. located in the same data center as the users
- B. accessed over the Internet
- C. implemented over a dedicated WAN
- D. all hosted on physical servers

Answer: B (LEAVE A REPLY)

NEW QUESTION: 295

What is a reason to implement IPv4 private addressing?

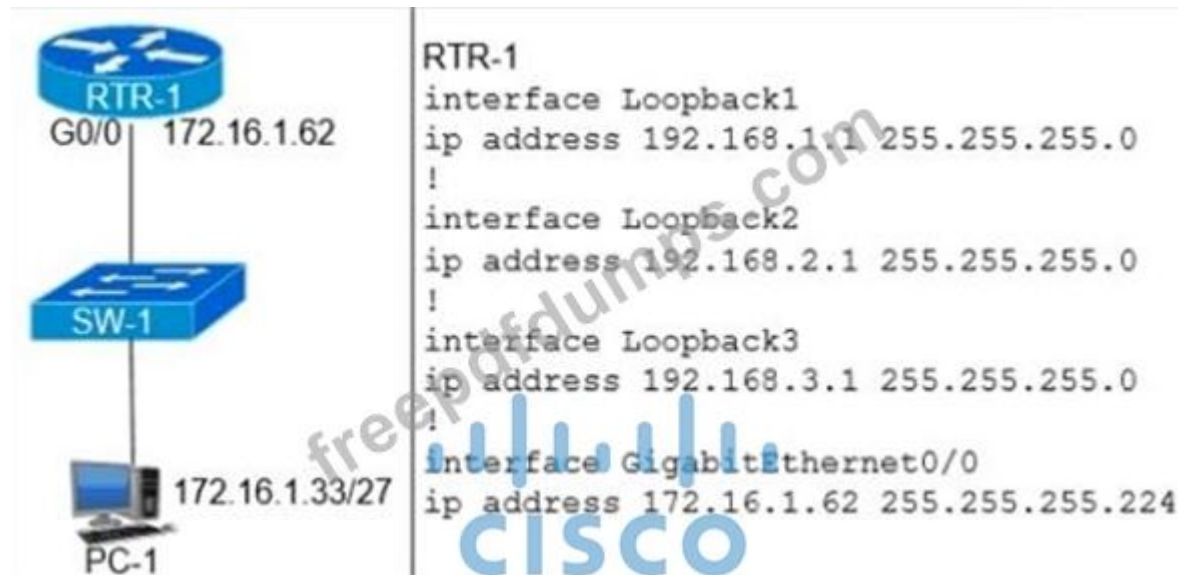
- A. Reduce the risk of a network security breach

- B. Comply with local law
- C. Comply with PCI regulations
- D. Reduce the size of the forwarding table on network routers

Answer: D (LEAVE A REPLY)

NEW QUESTION: 296

Refer to the exhibit.



Which configuration on RTR-1 denies SSH access from PC-1 to any RTR-1 interface and allows all other traffic?

- A. access-list 100 deny tcp host 172.16.1.33 any eq 23 access-list 100 permit ip any any interface GigabitEthernet0/0 ip access-group 100 in
- B. access-list 100 deny tcp host 172.16.1.33 any eq 22 access-list 100 permit ip any any line vty 0 15 ip access-group 100 in
- C. access-list 100 deny tcp host 172.16.1.33 any eq 22 access-list 100 permit ip any any interface GigabitEthernet0/0 ip access-group 100 in
- D. access-list 100 deny tcp host 172.16.1.33 any eq 23 access-list 100 permit ip any any line vty 0 15 ip access-group 100 in

Answer: B (LEAVE A REPLY)

NEW QUESTION: 297

What are two reasons a switch experiences frame flooding? (Choose two.)

- A. The forwarding table has overflowed
- B. An aged MAC (able entry is causing excessive updates
- C. Topology changes are occurring within spanning-tree
- D. A defective patch cable is connected to the switch port
- E. Port-security is configured globally

Answer: C,D (LEAVE A REPLY)

NEW QUESTION: 298

What is a benefit of using private IPv4 addressing?

- A. All external hosts are provided with secure communication to the Internet.
- B. Communication to the internet is reachable without the use of NAT.

C. Direct connectivity is provided to internal hosts from outside an enterprise network.

D. Multiple companies can use the same addresses without conflicts.

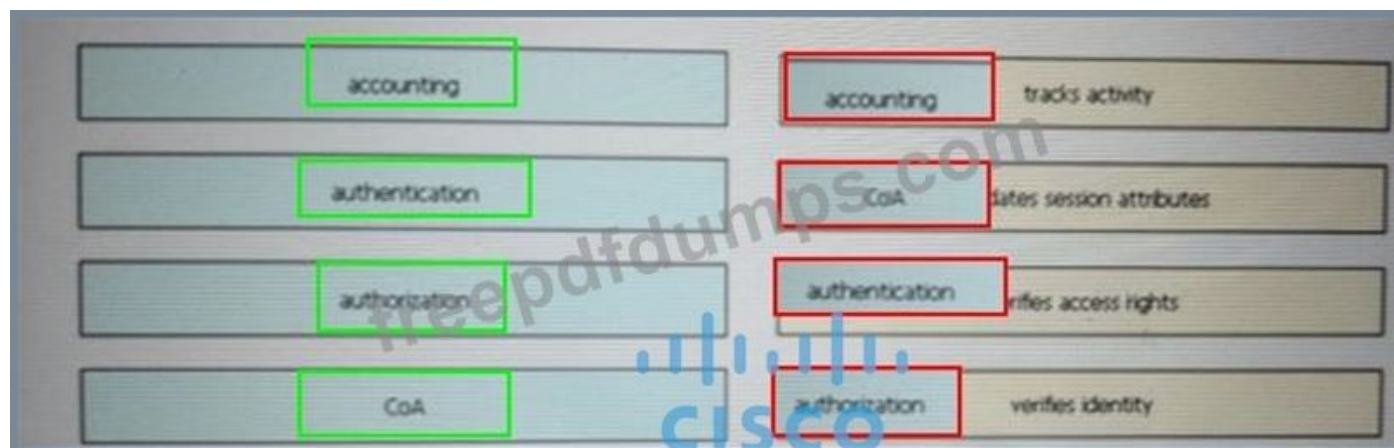
Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 299

Drag and drop the AAA terms from the left onto the description on the right.



Answer:



NEW QUESTION: 300

What are two functions of a server on a network? (Choose two)

- A. runs the same operating system in order to communicate with other servers
- B. achieves redundancy by exclusively using virtual server clustering
- C. runs applications that send and retrieve data for workstations that make requests
- D. handles requests from multiple workstations at the same time
- E. housed solely in a data center that is dedicated to a single client

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 301

Refer to the exhibit.

```

SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
Description: Connection to SiteB
Internet address is 10.10.1/30
MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
reliability 166/255, txload 1/255, rxload 1/255
Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
5 minute input rate 264797000 bits/sec, 26672 packets/sec
5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
Description: Connection to SiteA
Internet address is 10.10.2/30
MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
reliability 255/255, txload 1/255, rxload 1/255
Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
5 minute input rate 122464000 bits/sec, 15724 packets/sec
5 minute output rate 264797000 bits/sec, 26672 packets/sec

```

Shortly after SiteA was connected to SiteB over a new single-mode fiber path users at SiteA report intermittent connectivity issues with applications hosted at SiteB What is the cause of the intermittent connectivity issue?

- A. The sites were connected with the wrong cable type
- B. Interface errors are incrementing
- C. An incorrect SFP media type was used at SiteA
- D. High usage is causing high latency

Answer: ([SHOW ANSWER](#))

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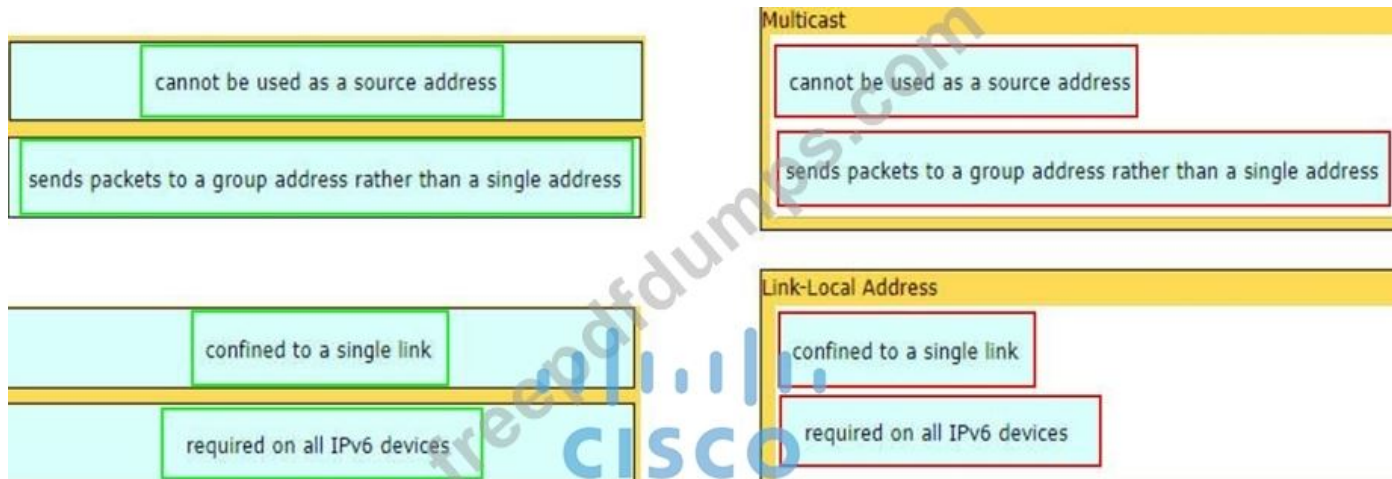
NEW QUESTION: 302

Drag and drop the characteristic from the left onto the IPv6 address type on the right.

cannot be used as a source address	Multicast
sends packets to a group address rather than a single address	
confined to a single link	Link-Local Address
required on all IPv6 devices	



Answer:



NEW QUESTION: 303

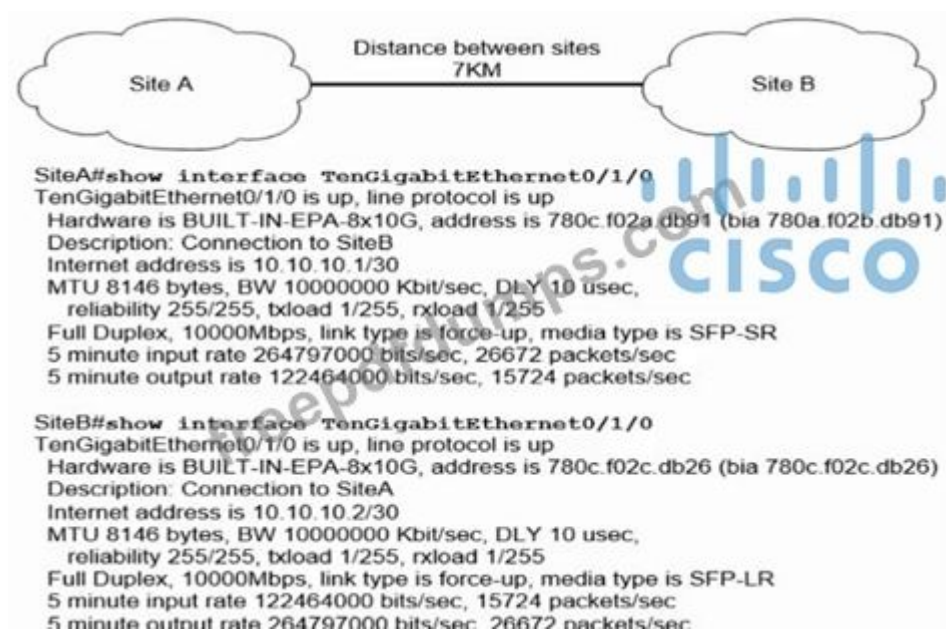
Which action does the router take as it forwards a packet through the network?

- A. The router replaces the source and destination labels with the sending router interface label as a source and the next hop router label as a destination
- B. The router encapsulates the source and destination IP addresses with the sending router IP address as the source and the neighbor IP address as the destination
- C. The router replaces the original source and destination MAC addresses with the sending router MAC address as the source and neighbor MAC address as the destination
- D. The router encapsulates the original packet and then includes a tag that identifies the source router MAC address and transmits transparently to the destination

Answer: (SHOW ANSWER)

NEW QUESTION: 304

Refer to the exhibit.



Site A was recently connected to site B over a new single-mode fiber path. Users at site A report intermittent connectivity issues with applications hosted at site B.

What is the reason for the problem?

- A. physical network errors are being transmitted between the two sites.
- B. Heavy usage is causing high latency.
- C. The wrong cable type was used to make the connection.
- D. An incorrect type of transceiver has been inserted into a device on the link.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 305

Refer to the exhibit.

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

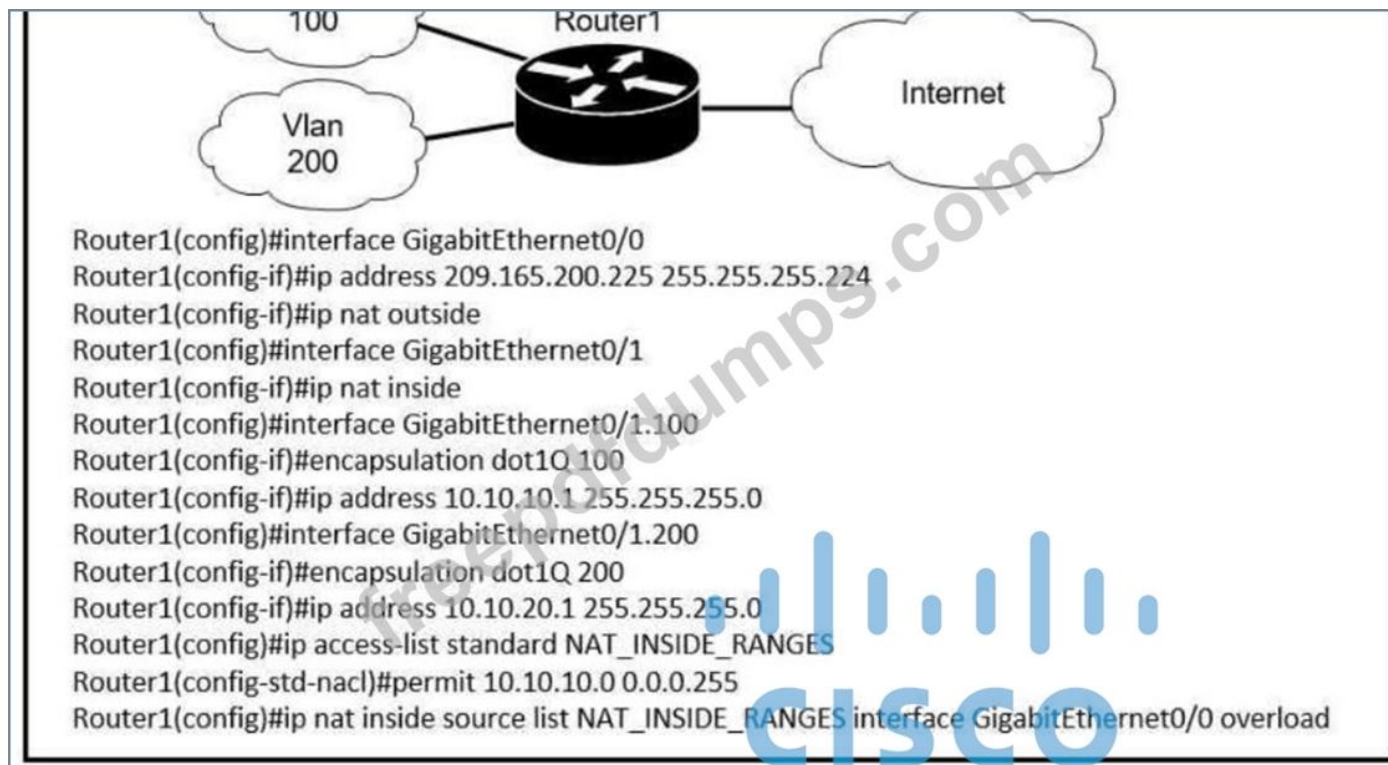
Which entry is the longest prefix match for host IP address 192.168.10.5?

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

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 306

Refer to the exhibit.



Users on existing VLAN 100 can reach sites on the Internet. Which action must the administrator take to establish connectivity to the Internet for users in VLAN 200?

- A. Define a NAT pool on the router.
- B. Configure the ip nat outside command on another interface for VLAN 200.
- C. Update the NAT INSIDF RANGFS ACL
- D. Configure static NAT translations for VLAN 200.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 307

Which two outcomes are predictable behaviors for HSRP? (Choose two.)

- A. The two routers share a virtual IP address that is used as the default gateway for devices on the LAN
- B. Each router has a different IP address, both routers act as the default gateway on the LAN, and traffic is load-balanced between them
- C. The two routers negotiate one router as the active router and the other as the standby router
- D. The two routers share the same interface IP address and default gateway traffic is load-balanced between them
- E. The two routers synchronize configurations to provide consistent packet forwarding

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 308

What is the difference between 1000BASE-LX/LH and 1000BASE-ZX interfaces?

- A. 1000BASE-LX/LH is supported on links up to 10km, and 1000BASE-ZX operates over links up to 70 km
- B. 1000BASE-ZX interoperates with dual-rate 100M/1G 10Km SFP over multimode fiber, and 1000BASE-LX/LH supports only single-rate.
- C. 1000BASE-ZX is supported on links up to 1000km, and 1000BASE-LX/LH operates over links up to 70 km.
- D. 1000BASE-LX/LH interoperates with multimode and single-mode fiber, and 1000BASE-ZX needs a conditioning patch cable with a multimode.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 309

Which command do you enter so that a switch configured with Rapid PVST + listens and learns for a specific time period?

- A. switch(config)#spanning-tree vlan 1 max-age 6
- B. switch(config)#spanning-tree vlan 1 hello-time 10
- C. switch(config)#spanning-tree vlan 1 priority 4096
- D. switch(config)#spanning-tree vlan 1 forward-time 20

Answer: D ([LEAVE A REPLY](#))

Forward time : Determines how long each of the listening and learning states last before the port begins forwarding.

Switch(config)# [no] spanning-tree vlan vlan_ID forward-time forward_time Configures the forward time of a VLAN. The forward_time value can be from 4 to 30 seconds.

<https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/15-02SG/configuration/guide/config/spantree.html#56177>

NEW QUESTION: 310

Which MAC address is recognized as a VRRP virtual address?

- A. 0000.5E00.010a

- B. 0005.3711.0975
- C. 0000.0C07.AC99
- D. 0007.C070/AB01

Answer: A (LEAVE A REPLY)

With VRRP, the virtual router's MAC address is 0000.5E00.01xx , in which xx is the VRRP group.

NEW QUESTION: 311

Which communication interaction takes place when a southbound API is used?

- A. between the SDN controller and switches and routers on the network
- B. between the SDN controller and PCs on the network
- C. between the SDN controller and services and applications on the network
- D. between network applications and switches and routers on the network

Answer: A (LEAVE A REPLY)

NEW QUESTION: 312

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. Place the backup servers in a dedicated VLAN.
- B. Configure a dedicated circuit for the backup traffic.
- C. Assign traffic from the backup servers to a dedicated switch.
- D. Advertise a more specific route for the backup traffic via the secondary circuit.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 313

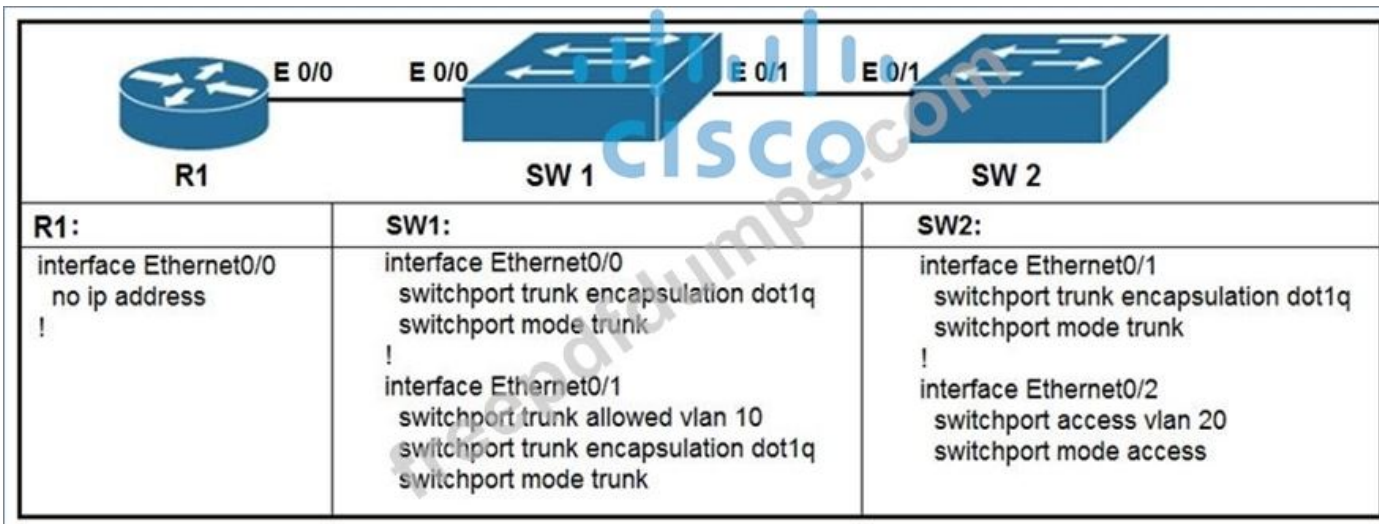
Which state does the switch port move to when PortFast is enabled?

- A. listening
- B. blocking
- C. forwarding
- D. learning

Answer: C (LEAVE A REPLY)

NEW QUESTION: 314

Refer to the exhibit.



What commands are needed to add a subinterface to Ethernet0/0 on R1 to allow for VLAN 20, with IP address 10.20.20.1/24?

- A. R1(config)#interface ethernet0/0
R1(config)#encapsulation dot1q 20
R1(config)#ip address 10.20.20.1 255.255.255.0
- B. R1(config)#interface ethernet0/0.20
R1(config)#encapsulation dot1q 20
R1(config)#ip address 10.20.20.1 255.255.255.0
- C. R1(config)#interface ethernet0/0.20
R1(config)#ip address 10.20.20.1 255.255.255.0
- D. R1(config)#interface ethernet0/0
R1(config)#ip address 10.20.20.1 255.255.255.0

Answer: B (LEAVE A REPLY)

NEW QUESTION: 315

Refer to the exhibit.

```
R1#show run
!
router ospf 1
auto-cost reference-bandwidth 100000
!
interface GigabitEthernet0/0
bandwidth 10000000
!
interface GigabitEthernet0/1
bandwidth 100000000
!
interface GigabitEthernet0/2
ip ospf cost 100
!
interface GigabitEthernet0/3
ip ospf cost 1000
end
```

Router R1 resides in OSPF Area 0. After updating the R1 configuration to influence the paths that it will use to direct traffic, an engineer verified that each of the four Gigabit interfaces has the same route to 10.10.0.0/16. Which interface will R1 choose to send traffic to reach the route?

- A. GigabitEthernet0/1

- B. GigabitEthernet0/0
- C. GigabitEthernet0/3
- D. GigabitEthernet0/2

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 316

Which goal is achieved by the implementation of private IPv4 addressing on a network?

- A. allows communication across the Internet to other private networks
- B. allows servers and workstations to communicate across public network boundaries
- C. provides an added level of protection against Internet exposure
- D. provides a reduction in size of the forwarding table on network routers

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 317

Which 802.11 frame type is indicated by a probe response after a client sends a probe request?

- A. action
- B. control
- C. data
- D. management

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 318

Refer to the exhibit.

```

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

```

What is the metric of the route to the 192.168.10.33/28 subnet?

- A. 193
- B. 192
- C. 110
- D. 84
- E. 128

Answer: A (LEAVE A REPLY)

NEW QUESTION: 319

A network administrator enabled port security on a switch interface connected to a printer. What is the next configuration action in order to allow the port to learn the MAC address of the printer and insert it into the table automatically?

- A. enable sticky MAC addressing
- B. implement auto MAC address learning
- C. enable dynamic MAC address learning
- D. implement static MAC addressing.

Answer: (SHOW ANSWER)

NEW QUESTION: 320

Which API is used in controller-based architectures to interact with edge devices?

- A. northbound
- B. underlay
- C. southbound
- D. overlay

Answer: C (LEAVE A REPLY)

NEW QUESTION: 321

Which encryption method is used by WPA3?

- A. TKIP
- B. AES
- C. PSK
- D. SAE

Answer: B (LEAVE A REPLY)

NEW QUESTION: 322

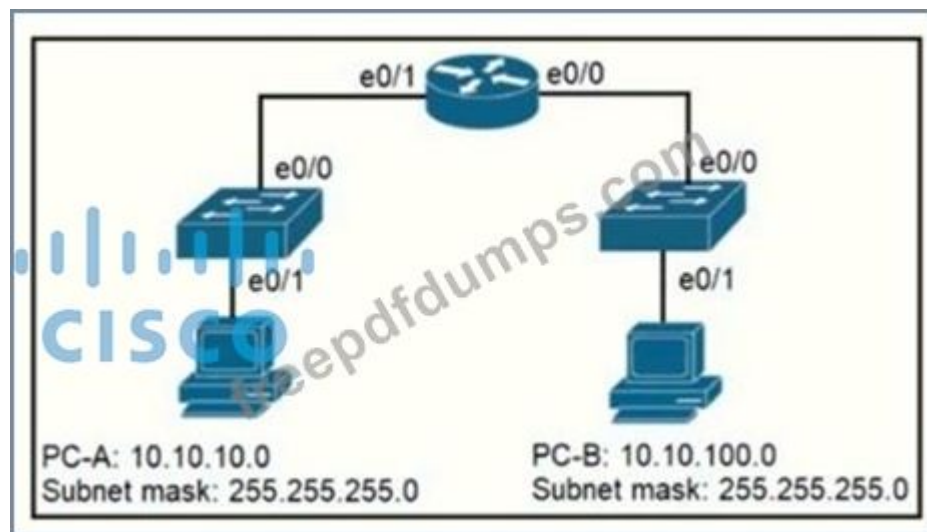
What is the same for both copper and fiber interfaces when using SFP modules?

- A. They offer reliable bandwidth up to 100 Mbps in half duplex mode
- B. They provide minimal interruption to services by being hot-swappable
- C. They support an inline optical attenuator to enhance signal strength
- D. They accommodate single-mode and multi-mode in a single module

Answer: B (LEAVE A REPLY)

NEW QUESTION: 323

Refer to the exhibit.



When PC-A sends traffic to PC-B, which network component is in charge of receiving the packet from PC-A verifying the IP addresses, and forwarding the packet to PC-B?

- A. Layer 2 switch
- B. Router
- C. Load balancer
- D. firewall

Answer: B (LEAVE A REPLY)

PC--A and PC-B are not in the same network. Switches send traffic in layer 2 and within the same VLA while routers route traffic to different subnet and at layer 3.

NEW QUESTION: 324

R1 as an NTP server must have:

- * NTP authentication enabled
- * NTP packets sourced from Interface loopback 0
- * NTP stratum 2
- * NTP packets only permitted to client IP 209.165.200.225

How should R1 be configured?

A)

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
nntp access-group server-only 10
ntp master 2
!
access-list 10 permit 209.165.200.225
```

B)

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp stratum 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

C)

```
ntp authenticate
ntp authentication-key 2 sha1 CISCO123
ntp source Loopback0
ntp access-group server-only 10
ntp master 2
!
access-list 10 permit udp host 209.165.200.225 any eq 123
```

D)

```
ntp authenticate
ntp authentication-key 2 md5 CISCO123
ntp interface Loopback0
ntp access-group server-only 10
```

- A. Option A
- B. Option B
- C. Option D
- D. Option C

Answer: B (LEAVE A REPLY)

NEW QUESTION: 325

Which type of IPv6 address is similar to a unicast address but is assigned to multiple devices on the same network at the same time?

- A. anycast address
- B. link-local address
- C. multicast address
- D. global unicast address

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 326

Which interface enables communication between a program on the controller and a program on the networking devices?

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

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 327

Refer to the exhibit.



A network engineer is in the process of establishing IP connectivity between two sites. Routers R1 and R2 are partially configured with IP addressing. Both routers have the ability to access devices on their respective LANs. Which command set configures the IP connectivity between devices located on both LANs in each site?

- R1
ip route 192.168.1.0 255.255.255.0 GigabitEthernet0/0
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/0
- R1
ip route 0.0.0.0 0.0.0.0 209.165.200.225
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.226
- R1
ip route 192.168.1.1 255.255.255.0 GigabitEthernet0/1
R2
ip route 10.1.1.1 255.255.255.0 GigabitEthernet0/1
- R1
ip route 0.0.0.0 0.0.0.0 209.165.200.225
R2
ip route 0.0.0.0 0.0.0.0 209.165.200.225

- A. Option D
- B. Option A
- C. Option B
- D. Option C

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 328

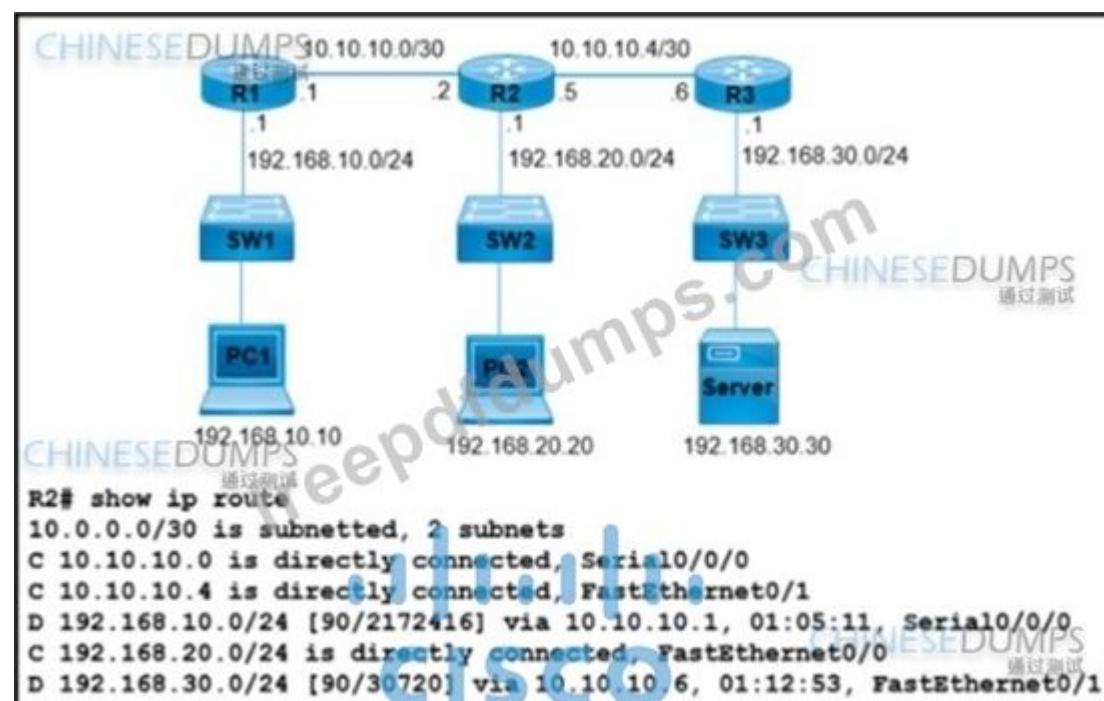
Which cable type must be used to interconnect one switch using 1000 BASE-SX GBiC modules and another switch using 1000 BASE-SX SFP modules?

- A. SC to SC
- B. SC to ST
- C. LC to SC
- D. LC to LC

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 329

Refer to Exhibit.



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

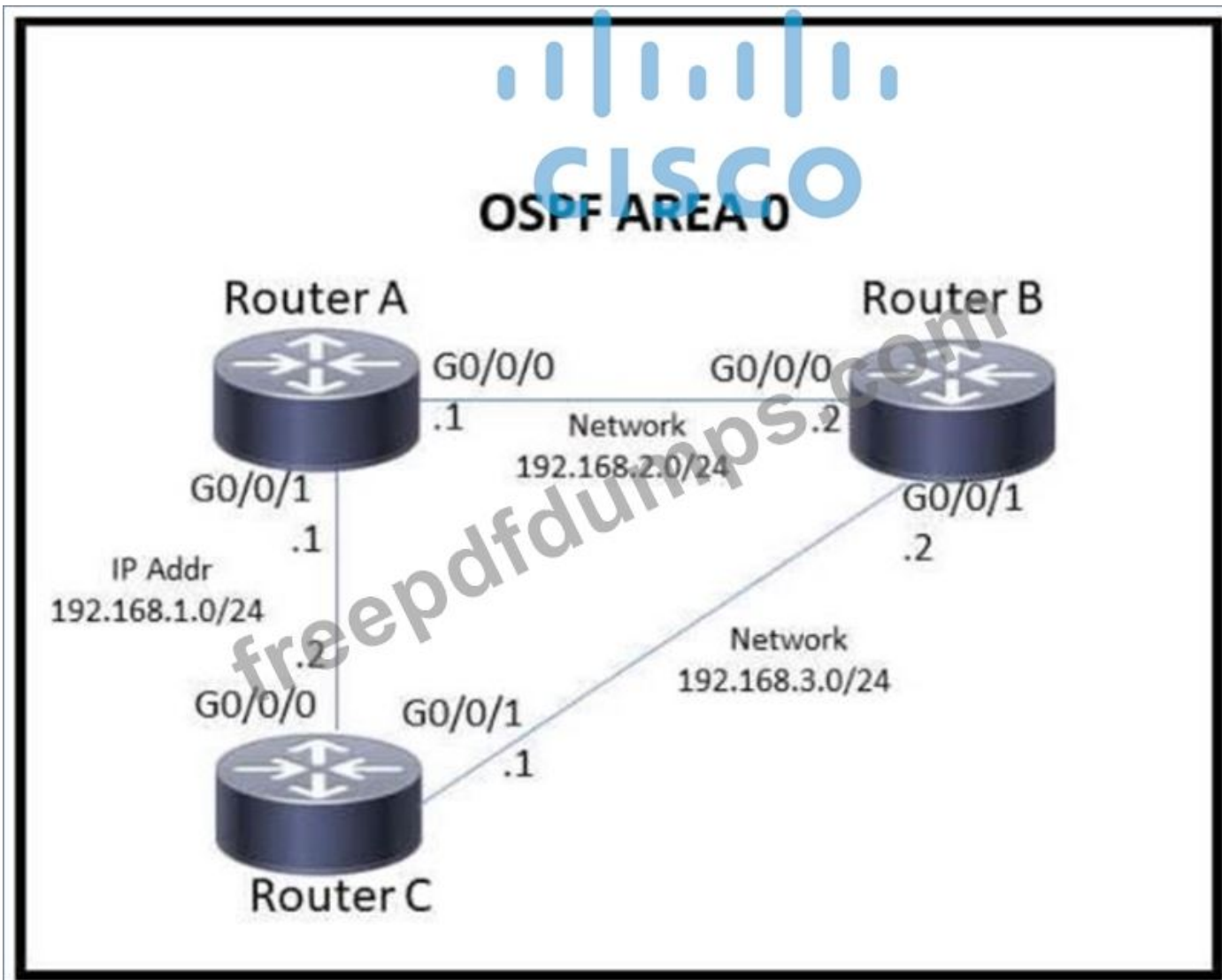
- A. 192.168.30.1
- B. 192.168.20.1
- C. 10.10.10.5
- D. 10.10.10.6

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 330

Refer to the exhibit.

CISCO
OSPF AREA 0



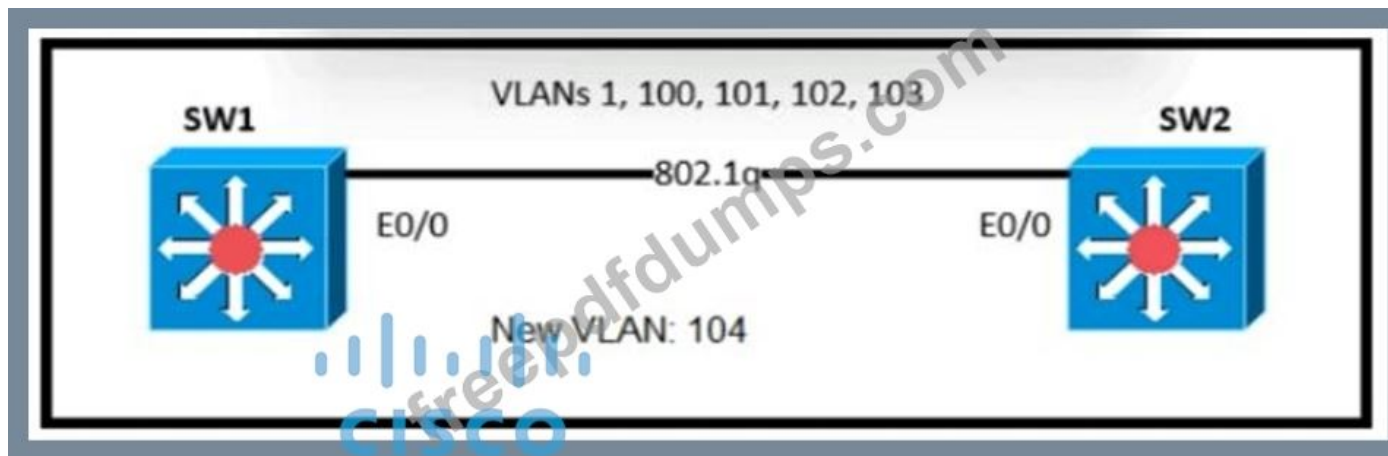
Which action must be taken to ensure that router A is elected as the DR for OSPF area 0?

- A. Configure router B and router C as OSPF neighbors of router A.
- B. Configure the router A interfaces with the highest OSPF priority value within the area.
- C. Configure router A with a fixed OSPF router ID
- D. Configure the OSPF priority on router A with the lowest value between the three routers.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 331

Refer to the exhibit.



An engineer is asked to insert the new VLAN into the existing trunk without modifying anything previously configured. Which command accomplishes this task?

- A. switchport trunk allowed vlan 100-104
- B. switchport trunk allowed vlan add 104
- C. switchport trunk allowed vlan all
- D. switchport trunk allowed vlan 104

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 332

Drag and drop the wireless architecture benefits from the left onto the architecture types on the right.

Drag and drop the wireless architecture benefits from the left onto the architecture types on the right.

Appropriate for a small-business environment.

Work is divided between the access point and the controller.

The access points transmit beacon frames.

Supports per device configuration and management.

Uses the CAPWAP tunneling protocol.

Split-MAC

Autonomous

Answer:

Drag and drop the wireless architecture benefits from the left onto the architecture types on the right.

Appropriate for a small-business environment.

Work is divided between the access point and the controller.

The access points transmit beacon frames.

Supports per device configuration and management.

Uses the CAPWAP tunneling protocol.

Split-MAC

Autonomous

NEW QUESTION: 333

Refer to the exhibit.



```
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
```

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

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 334

Refer to the exhibit.



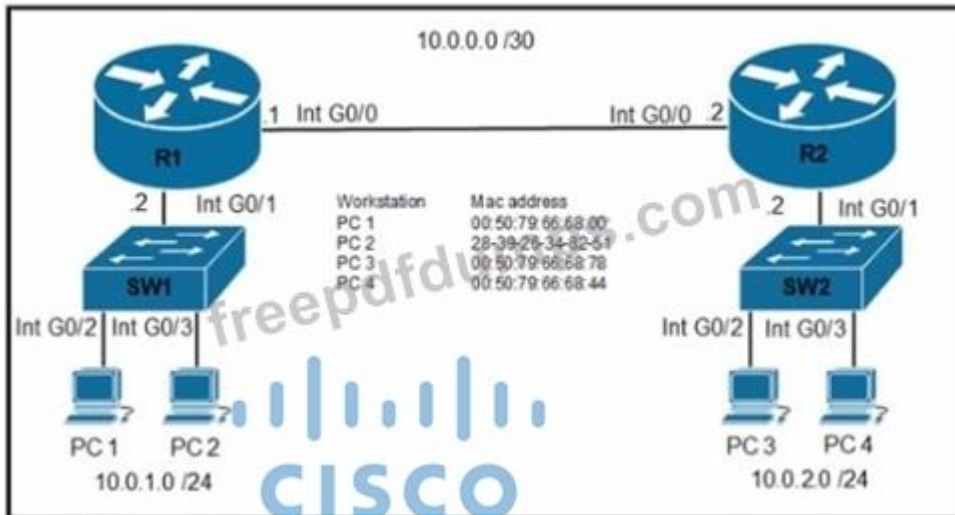
The EtherChannel is configured with a speed of 1000 and duplex as full on both ends of channel group 1. What is the next step to configure the channel on switch A to respond to but not initiate LACP communication?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 335

Refer to the exhibit.



An engineer must configure the interface that connects to PC 1 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?

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

Answer: D (LEAVE A REPLY)

NEW QUESTION: 336

Why would a network administrator choose to implement automation in a network environment?

- A. To simplify the process of maintaining a consistent configuration state across all devices
- B. To deploy the management plane separately from the rest of the network
- C. To centralize device information storage
- D. To implement centralized user account management

Answer: A (LEAVE A REPLY)

NEW QUESTION: 337

Which CRUD operation modifies an existing table or view?

- A. read
- B. replace
- C. update
- D. create

Answer: (SHOW ANSWER)

NEW QUESTION: 338

Which QoS traffic handling technique retains excess packets in a queue and reschedules these packets for later transmission when the configured maximum bandwidth has been surpassed?

- A. traffic policing
- B. weighted random early detection
- C. traffic prioritization
- D. traffic shaping

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 339

When a site-to-site VPN is configured, which IPsec mode provides encapsulation and encryption of the entire original P packet?

- A. IPsec tunnel mode with AH
- B. IPsec transport mode with AH
- C. IPsec tunnel mode with ESP
- D. IPsec transport mode with ESP

Answer: C ([LEAVE A REPLY](#))

"Encapsulating Security Payload ... Unlike Authentication Header (AH), ESP in transport mode does not provide integrity and authentication for the entire IP packet. However, in Tunnel Mode, where the entire original IP packet is encapsulated with a new packet header added, ESP protection is afforded to the whole inner IP packet (including the inner header) while the outer header (including any outer IPv4 options or IPv6 extension headers) remains unprotected.

NEW QUESTION: 340

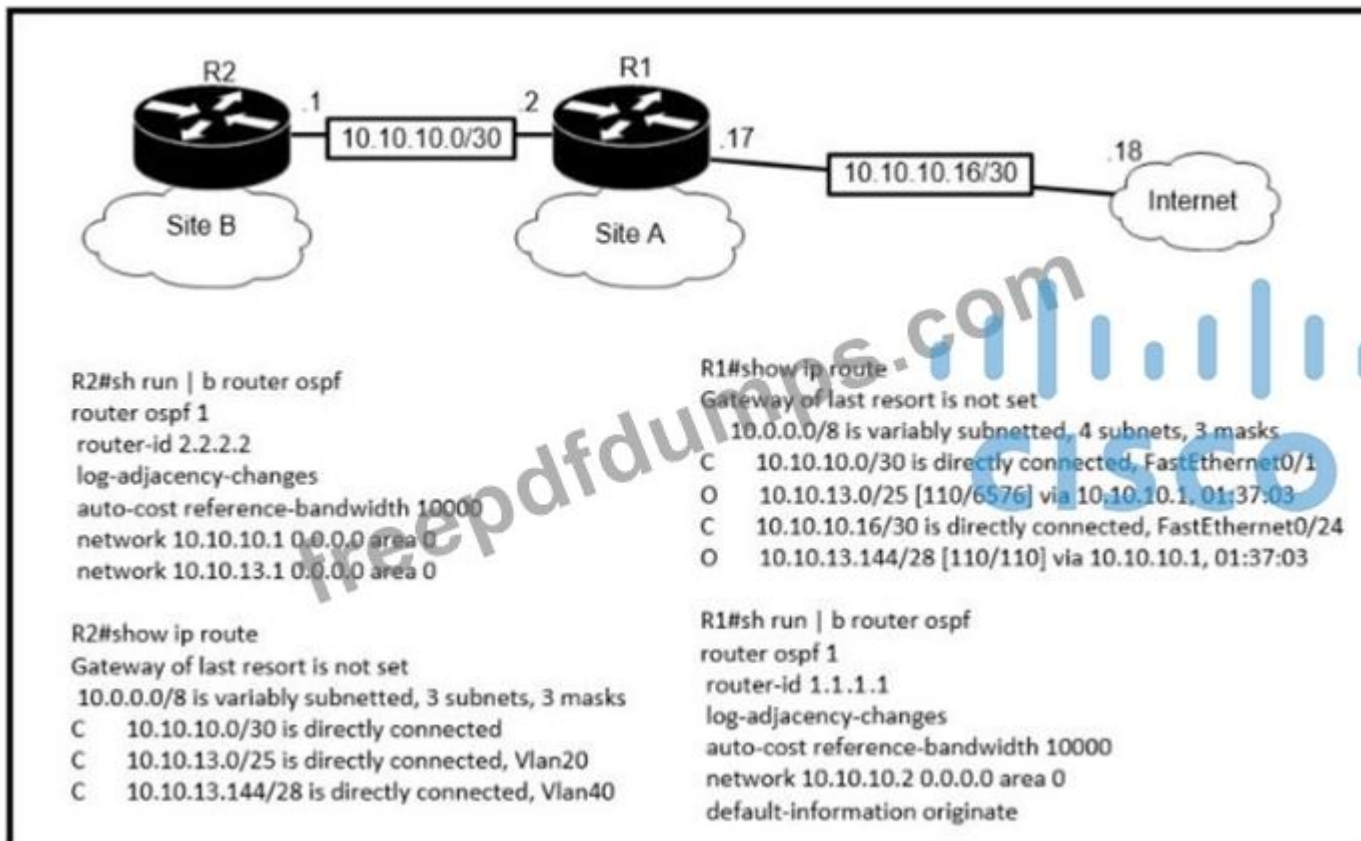
What is the put method within HTTP?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 341

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 cannot reach a DNS server on the Internet. Which action corrects the configuration issue?

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

Answer: (SHOW ANSWER)

NEW QUESTION: 342

What is the purpose of a southbound API in a control based networking architecture?

- A. Facilitates communication between the controller and the applications
- B. Facilitates communication between the controller and the networking hardware
- C. allows application developers to interact with the network
- D. integrates a controller with other automation and orchestration tools.

Answer: (SHOW ANSWER)

<https://www.ciscopress.com/articles/article.asp?p=2995354&seqNum=2#:~:text=The%20Southbound%20Interface,communicate%20to%20the%20networking%20devices.&text=The%20overall%20goal%20is%20network,from%20being%20only%20a%20protocol.>

The Southbound Interface

In a controller-based network architecture, the controller needs to communicate to the networking devices.

NEW QUESTION: 343

Drag and drop the functions of SNMP fault-management from the left onto the definitions on the right.

Answer:



NEW QUESTION: 344

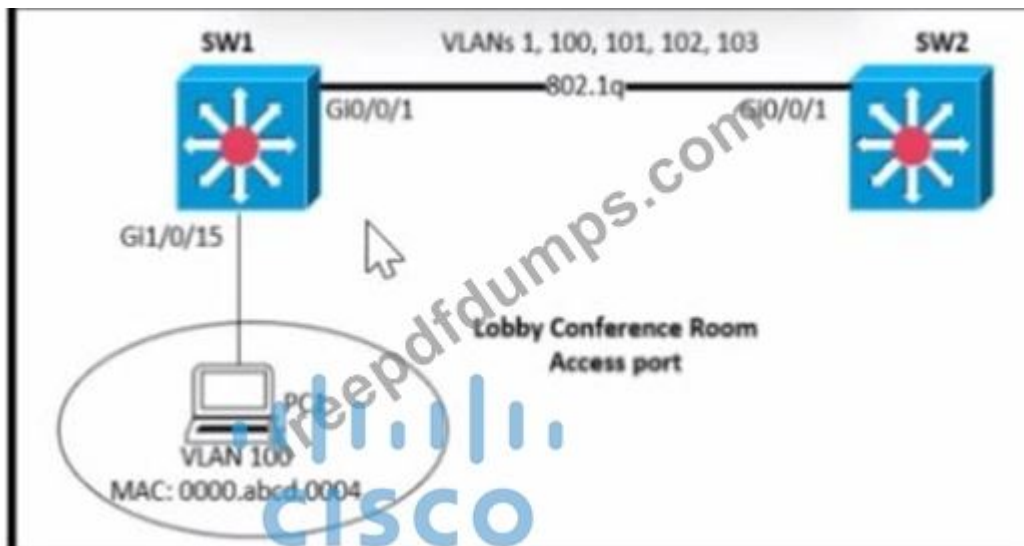
An engineer must configure an OSPF neighbor relationship between router R1 and R3. The authentication configuration has been configured and the connecting interfaces are in the same 192.168.1.0/30 subnet. What are the next two steps to complete the configuration? (Choose two.)

- A. configure the same process ID for the router OSPF process
- B. configure both interfaces with the same area ID
- C. configure the same router ID on both routing processes
- D. Configure the interfaces as OSPF active on both sides.
- E. configure the hello and dead timers to match on both sides

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 345

Refer to Exhibit.



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

A)

```
> interface gi1/0/15
  switchport port-security mac-address 0000.abcd.0004 vlan 100
```

B)

```
> interface gi1/0/15
  switchport port-security
  switchport port-security maximum 2
```

C)

```
> interface gi1/0/15
  switchport port-security mac-address 0000.abcd.0004 vlan 100
  interface switchport secure-mac limit 2
```

D)

```
> interface gi1/0/15
  switchport port-security
  switchport port-security mac-address 0000.abcd.0004 vlan 100
```

A. Option D

B. Option C

C. Option A

D. Option B

Answer: (SHOW ANSWER)

NEW QUESTION: 346

A WLC sends alarms about a rogue AP, and the network administrator verifies that the alarms are caused by a legitimate autonomous AP.

A. Remove the AP from WLC management.

B. Manually remove the AP from Pending state.

C. Set the AP Class Type to Friendly.

D. Place the AP into manual containment.

Answer: (SHOW ANSWER)

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NEW QUESTION: 347

Which two protocols are supported on service-port interfaces? (Choose two.)

- A. RADIUS
- B. TACACS+
- C. SCP
- D. Telnet
- E. SSH

Answer: D,E (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-5/configuration-guide/b_cg75/b_cg75_chapter_011110.html

NEW QUESTION: 348

Drag and drop the REST API call method for HTTP from the left onto the action they perform on the right.

DELETE	creates a resource on the server
GET	reads data from the server
POST	removes a resource from the server
PUT	updates an entry in the database
PATCH	

Answer:



NEW QUESTION: 349

What differentiates device management enabled by Cisco DNA Center from traditional campus device management?

- A. CLI-oriented device
- B. centralized
- C. device-by-device hands-on
- D. per-device

Answer: (SHOW ANSWER)

NEW QUESTION: 350

Which command must be entered when a device is configured as an NTP server?

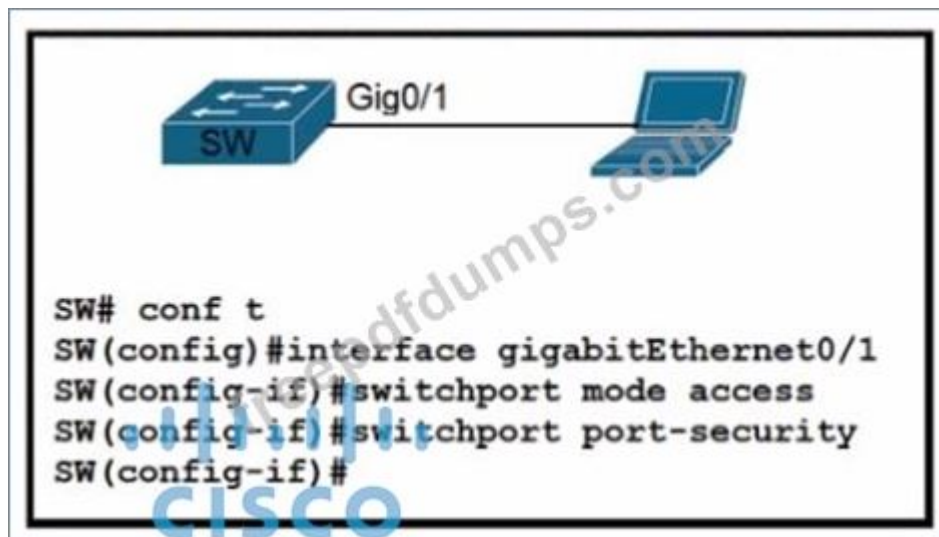
- A. ntp authenticate
- B. ntp server
- C. ntp peer
- D. ntp master

Answer: D (LEAVE A REPLY)

To configure a Cisco device as an Authoritative NTP Server, use the ntp master [stratum] command. To configure a Cisco device as a NTP client, use the command ntp server <IP address>. For example: Router(config)#ntp server 192.168.1.1. This command will instruct the router to query 192.168.1.1 for the time.

NEW QUESTION: 351

Refer to Itie 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 maximum 2
- B. SW(ccnfig-if)=switchport port-security mac-address sticky
- C. SW(config.if)sswitchport port-security mac-address 0010.7B84.45E6
- D. SW(ccnfig-if)=switchport port-security violation shutdown
- E. SW(confKj-if)=switchport port-security violation restrict

Answer: C (LEAVE A REPLY)

NEW QUESTION: 352

What is a practice that protects a network from VLAN hopping attacks?

- A. Configure an ACL to prevent traffic from changing VLANs
- B. Implement port security on internet-facing VLANs
- C. Change native VLAN to an unused VLAN ID
- D. Enable dynamic ARP inspection

Answer: (SHOW ANSWER)

NEW QUESTION: 353

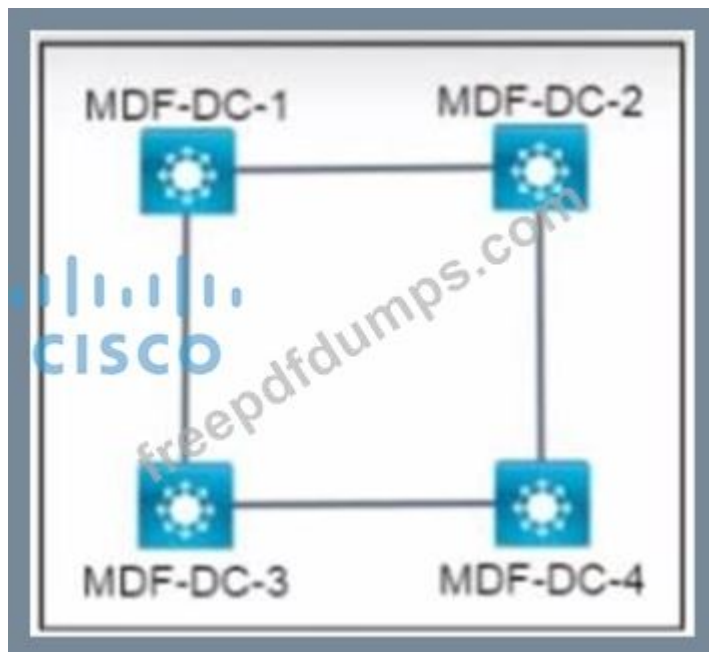
Which action implements physical access control as part of the security program of an organization?

- A. backing up syslogs at a remote location
- B. configuring a password for the console port
- C. configuring enable passwords on network devices
- D. setting up IP cameras to monitor key infrastructure

Answer: B (LEAVE A REPLY)

NEW QUESTION: 354

Refer to the exhibit.



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

- A. MDF-DC-3:08:0E:18::1A:3C:9D
- B. MDF-DC-08:0E:18:22:05:97
- C. MDF-DC-4:08:E0:19: 08:B3:19
- D. MDF-DC-1:DB:E:44:02:54:79

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 355

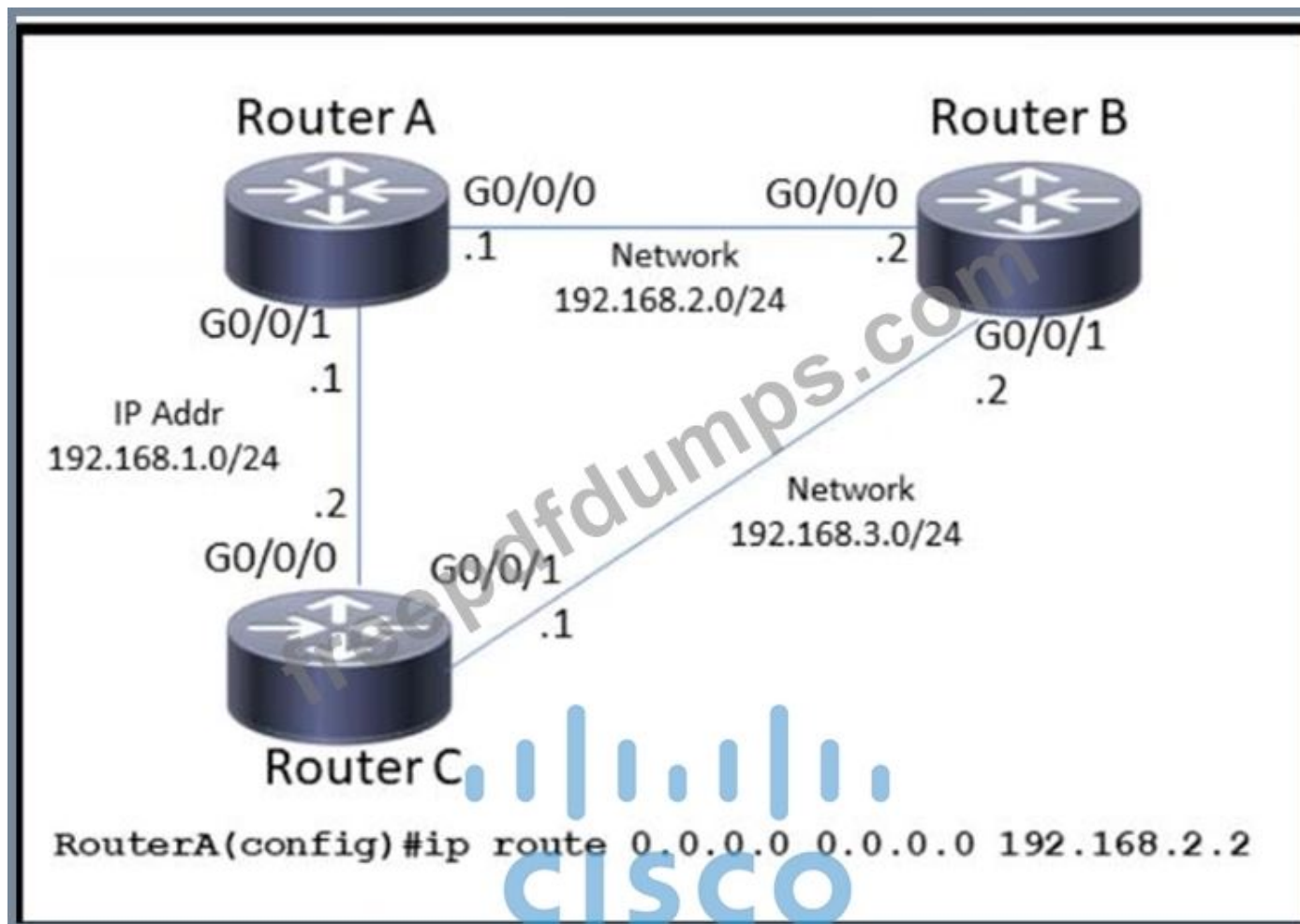
Which protocol must be implemented to support separate authorization and authentication solutions for wireless APs?

- A. RADIUS
- B. Kerberos
- C. 802.1X
- D. TACACS+

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 356

Refer to the exhibit.



Which command must be enable a floating default route on router A?

- A. ip route 0.0.0.0 0.0.0.0 192.168.1.2 10
- B. ip default-gateway 192.168.2.1
- C. ip route 0.0.0.0 0.0.0.0 192.168.2.1 10
- D. ip route 0.0.0.0 0.0.0.0 192.168.1.2

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 357

What is a DHCP client?

- A. a router that statically assigns IP addresses to hosts.
- B. a server that dynamically assigns IP addresses to hosts.
- C. a workstation that requests a domain name associated with its IP address
- D. a host that is configured to request an IP address automatically

Answer: [\(SHOW ANSWER\)](#)

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