

Cisco.200-301.v2023-02-06.q262

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NEW QUESTION: 1

What is a function of an endpoint?

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

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

NEW QUESTION: 2

Refer to the exhibit.



Which configuration issue is preventing the OSPF neighbor relationship from being established between the two routers?

- A. R2 should have its network command in area 1
- B. R2 is using the passive-interface default command
- C. R1 has an incorrect network command for interface Gi1/0
- D. R1 interface Gi1/0 has a larger MTU size

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 3

Which security program element involves installing badge readers on data-center doors to allow workers to enter and exit based on their job roles?

- A. physical access control
- B. multifactor authentication

- C. role-based access control
- D. biometrics

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

NEW QUESTION: 4

Which statement identifies the functionality of virtual machines?

- A. Virtualized servers run most efficiently when they are physically connected to a switch that is separate from the hypervisor
- B. The hypervisor communicates on Layer 3 without the need for additional resources
- C. The hypervisor can virtualize physical components including CPU, memory, and storage
- D. Each hypervisor can support a single virtual machine and a single software switch

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

NEW QUESTION: 5

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

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

NEW QUESTION: 6

Refer to Exhibit.



The loopback1 interface of the Atlanta router must reach the loopback3 interface of the Washington router. Which two static host routes must be configured on the NEW York router? (Choose two)

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

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

NEW QUESTION: 7

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

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

NEW QUESTION: 8

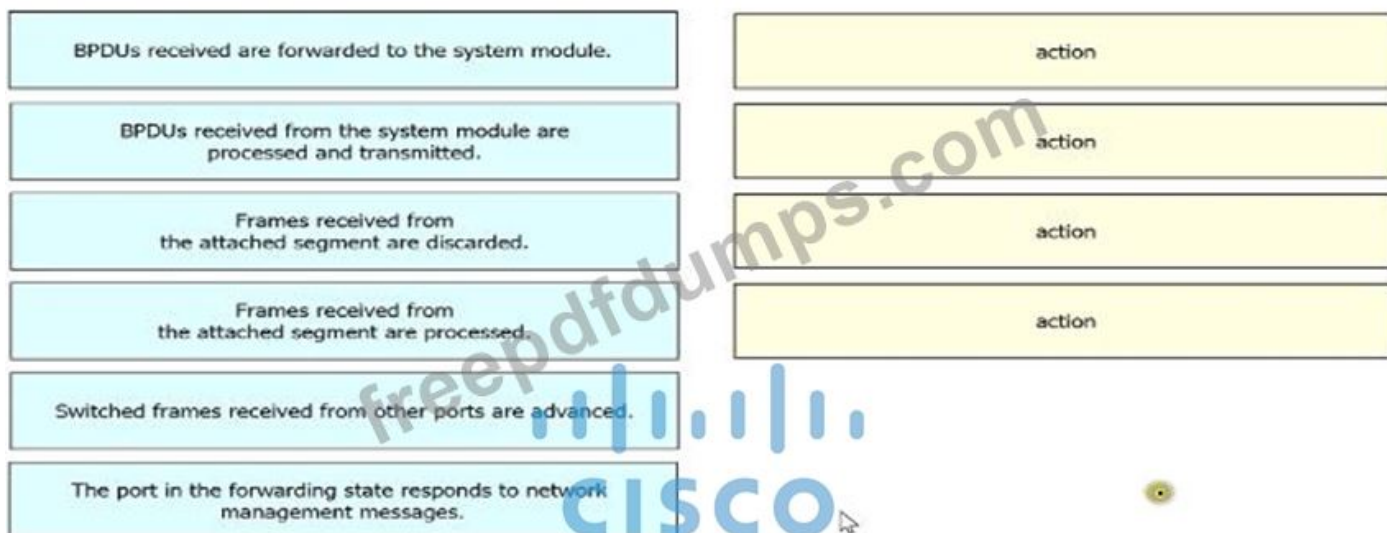
How are VLAN hopping attacks mitigated?

- A. activate all ports and place in the default VLAN
- B. manually implement trunk ports and disable DTP
- C. enable dynamic ARP inspection
- D. configure extended VLANs

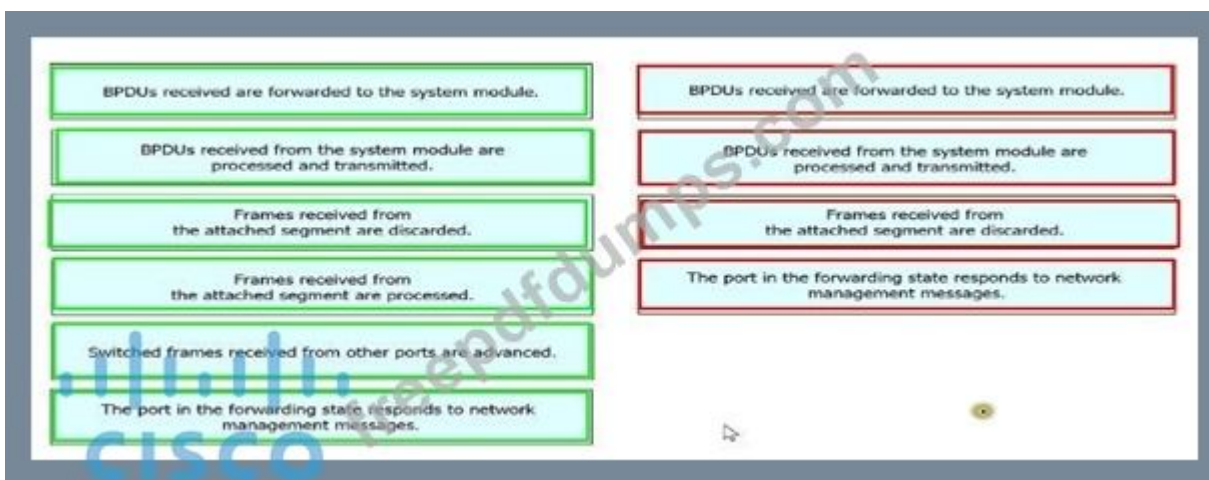
Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 9

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

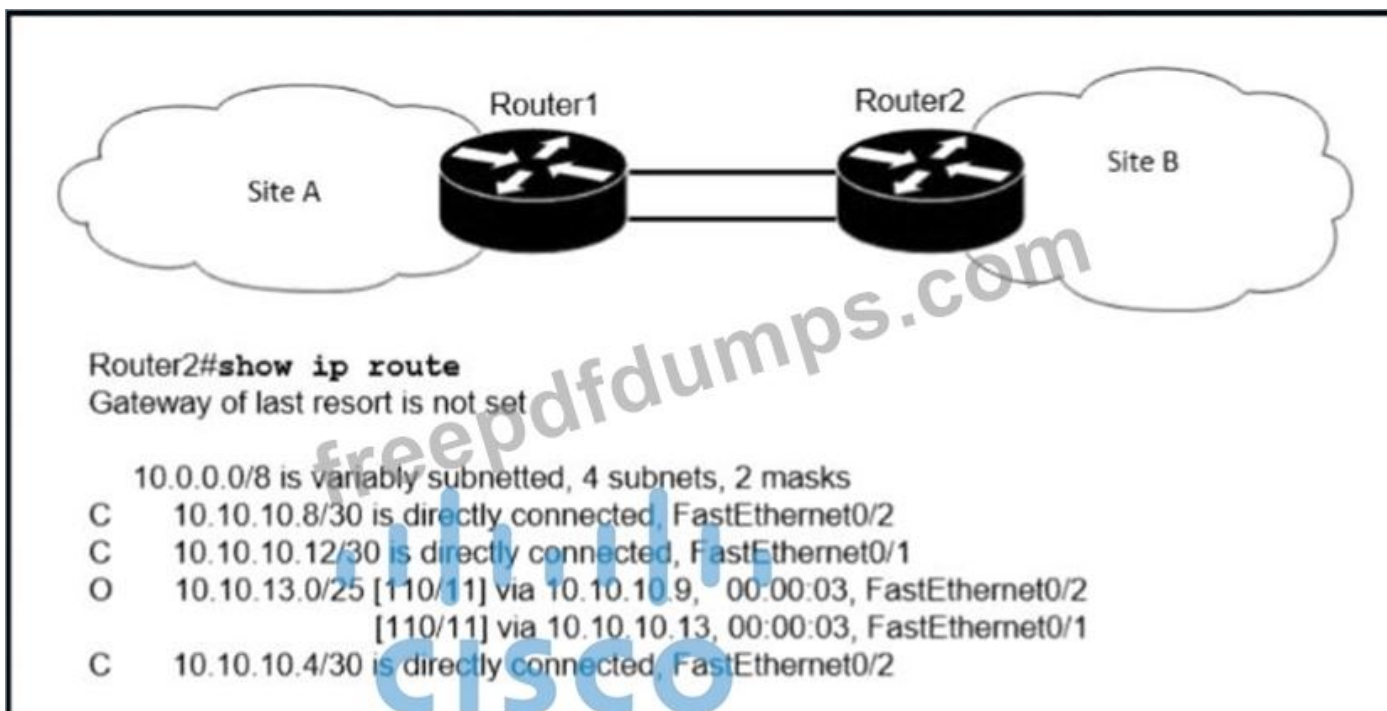


Answer:



NEW QUESTION: 10

Refer to the exhibit.



If OSPF Is running on this network, how does Router2 handle traffic from Site B to 10.10.13.128/25 at Site A?

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

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

NEW QUESTION: 11

R1 has learned route 192.168.12.0/24 via IS-IS, OSPF, RIP, and Internal EIGRP Under normal operating conditions, which routing protocol is installed in the routing table?

- A. IS-IS
- B. RIP
- C. Internal EIGRP
- D. OSPF

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

With the same route (prefix), the router will choose the routing protocol with lowest Administrative Distance (AD) to install into the routing table. The AD of Internal EIGRP (90) is lowest so it would be chosen. The table below lists the ADs of popular routing protocols.

Route Source	Administrative Distance
Directly Connected	0
Static	1
EIGRP	90
EIGRP Summary route	5
OSPF	110
RIP	120

Note: The AD of IS-IS is 115. The "EIGRP" in the table above is "Internal EIGRP". The AD of "External EIGRP" is 170. An EIGRP external route is a route that was redistributed into EIGRP.

NEW QUESTION: 12

Which two must be met before SSH can operate normally on a Cisco IOS switch? (Choose two)

- A. Telnet must be disabled on the switch
- B. A console password must be configured on the switch
- C. IP routing must be enabled on the switch
- D. The Ip domain-name command must be configured on the switch

E. The switch must be running a k9 (crypto) IOS image

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

NEW QUESTION: 13

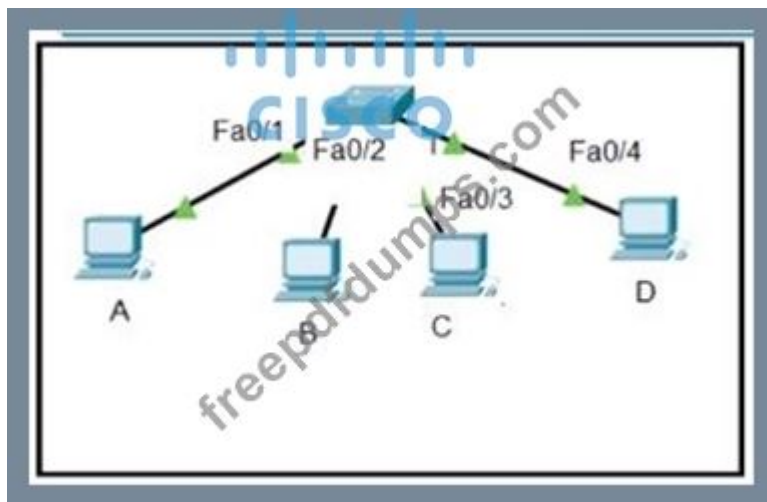
Which QoS per-hop behavior changes the value of the ToS field in the IPv4 packet header?

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

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

NEW QUESTION: 14

Refer to the exhibit.



Host A sent a data frame destined for host D

```
SwitchA#show mac-address table
Mac Address Table
-----
Vlan  Mac Address      Type      Ports
----  -
2      000c.859c.bb7b    DYNAMIC   Fa0/1
2      0010.11dc.3e91    DYNAMIC   Fa0/2
2      0041.45d7.c451    DYNAMIC   Fa0/3
SwitchA#
```

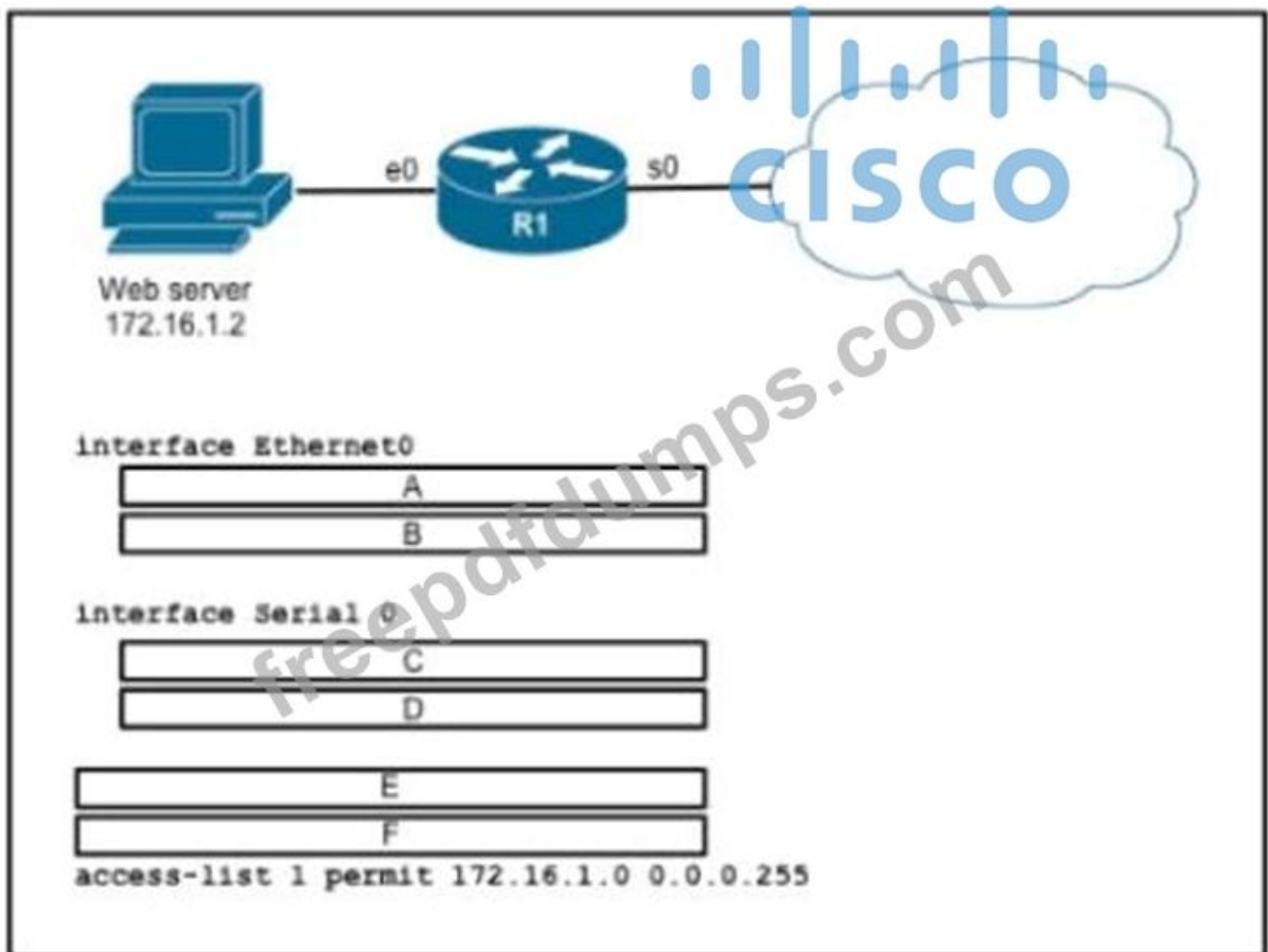
What does the switch do when it receives the frame from host A?

- A. It shuts down the port Fa0/1 and places it in err-disable mode.
- B. It experiences a broadcast storm.
- C. It drops the frame from the switch CAM table.
- D. It floods the frame out of all ports except port Fa0/1.

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

NEW QUESTION: 15

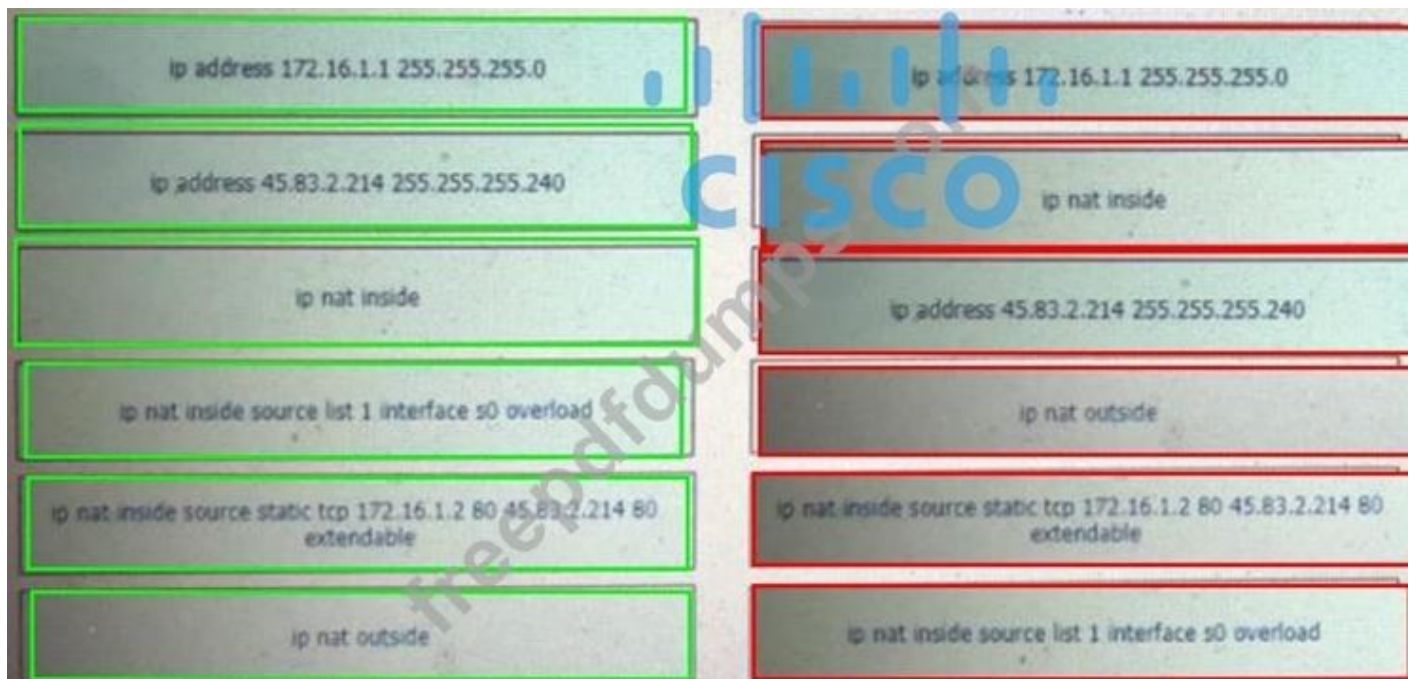
Refer to the exhibit.



An engineer is configuring the router to provide static NAT for the webserver Drag and drop the configuration commands from the left onto the letters that correspond to its position in the configuration on the right.

ip address 172.16.1.1 255.255.255.0	position A
ip address 45.83.2.214 255.255.255.240	position B
ip nat inside	position C
ip nat inside source list 1 interface s0 overload	position D
ip nat inside source static tcp 172.16.1.2 80 45.83.2.214 80 extendable	position E
ip nat outside	position F

Answer:



NEW QUESTION: 16

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 10.10.10.1/30
  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 10.10.10.2/30
  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. High usage is causing high latency
- D. An incorrect SFP media type was used at SiteA

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 17

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:

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
 - supports centralized software management
 - orchestrates background device configuration
 - relies on per-device management
- Traditional
 - provides greater flexibility for custom and non-standard configurations
 - uses individual software management
 - supports open APIs

NEW QUESTION: 18

Why does a switch flood a frame to all ports?

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

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

NEW QUESTION: 19

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

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

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

NEW QUESTION: 20

A packet is destined for 10.10.1.22. Which static route does the router choose to forward the packet?

- A. ip route 10.10.1.20 255.255.255.252 10.10.255.1
- B. ip route 10.10.1.20 255.255.255.254 10.10.255.1
- C. ip route 10.10.1.16 255.255.255.252 10.10.255.1
- D. ip route 10.10.1.0 255.255.255.240 10.10.255.1

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

NEW QUESTION: 21

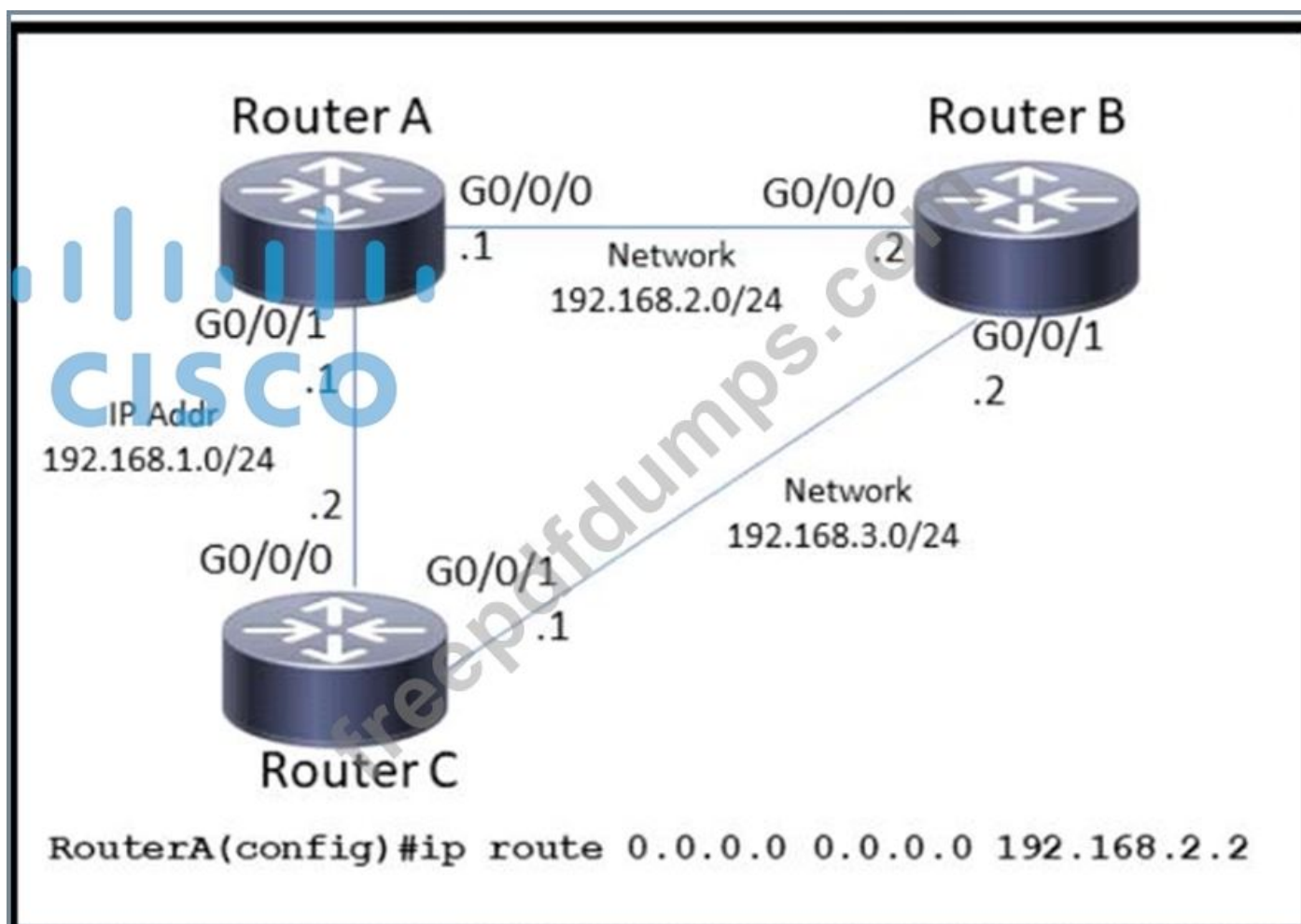
How do TCP and UDP differ in the way they guarantee packet delivery?

- A. TCP uses checksum, acknowledgement, and retransmissions, and UDP uses checksums only.
- B. TCP uses retransmissions, acknowledgement and parity checks and UDP uses cyclic redundancy checks 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: A [\(LEAVE A REPLY\)](#)

NEW QUESTION: 22

Refer to the exhibit.



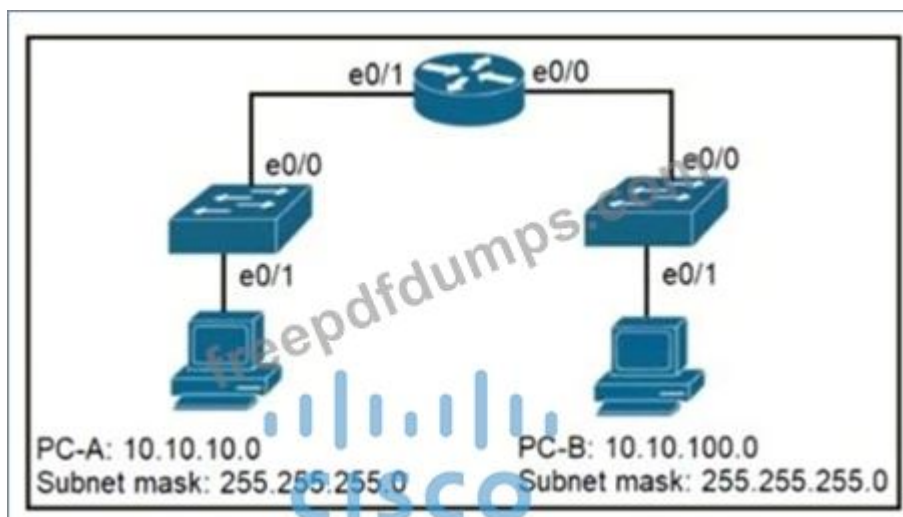
Which command must be enable a floating default route on router A?

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

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

NEW QUESTION: 23

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?

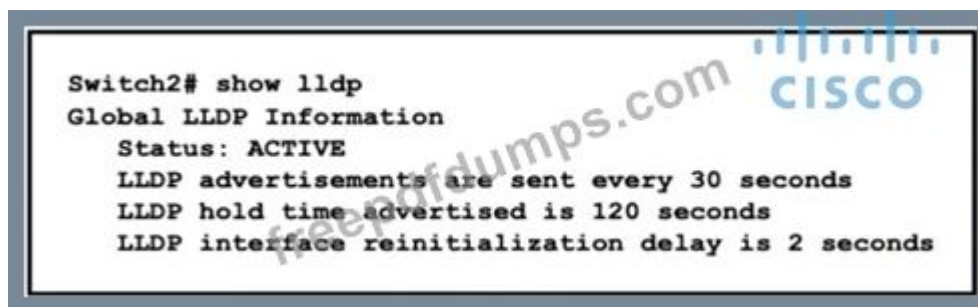
- A. Layer 2 switch
- B. Router
- C. Load balancer
- D. firewall

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: 24

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 configuring on switch2 so that it sends LLDP packets.

A)

```
Switch2(config)#lldp timer 1
Switch2(config)#lldp tlv-select 3
```

B)

```
Switch2(config)#lldp timer 1
Switch2(config)#lldp holdtime 3
```

C)

```
Switch2(config)#lldp timer 60
Switch2(config)#lldp holdtime 180
```

D)

```
Switch2(config)#lldp timer 60
Switch2(config)#lldp tlv-select 180
```

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

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

NEW QUESTION: 25

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

- A. IT provides secured access to a WLAN
- B. It uniquely identifies a client in a WLAN

- C. It can be hidden or broadcast in a WLAN
- D. It is at most 32 characters long.
- E. It uniquely identifies an access point in a WLAN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 26

What is the purpose of the ip address dhcp command?

- A. to configure an interface as a DHCP helper
- B. to configure an Interface as a DHCP server
- C. to configure an interface as a DHCP relay
- D. to configure an interface as a DHCP client

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

NEW QUESTION: 27

What is the function of a server?

- A. It Creates security zones between trusted and untrusted networks
- B. It routes traffic between Layer 3 devices.
- C. It provides shared applications to end users.
- D. It transmits packets between hosts in the same broadcast domain.

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

NEW QUESTION: 28

Which command is used to specify the delay time in seconds for LLDP to initialize on any interface?

- A. lldp timer
- B. lldp holdtime
- C. lldp reinit
- D. lldp tlv-select

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

Reference:

+ lldp holdtime seconds: Specify the amount of time a receiving device should hold the information from your device before discarding it + lldp reinit delay: Specify the delay time in seconds for LLDP to initialize on an interface + lldp timer rate: Set the sending frequency of LLDP updates in seconds

NEW QUESTION: 29

How does Cisco DNA Center gather data from the network?

- A. The Cisco CU Analyzer tool gathers data from each licensed network device and streams it to the controller.
- B. Devices establish an IPsec tunnel to exchange data with the controller

C. Network devices use different services like SNMP, syslog, and streaming telemetry to send data to the controller

D. Devices use the call-home protocol to periodically send data to the controller.

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

NEW QUESTION: 30

How does Rapid PVST+ create a fast loop-free network topology?

A. It requires multiple links between core switches

B. It maps multiple VLANs into the same spanning-tree instance

C. It uses multiple active paths between end stations.

D. It generates one spanning-tree instance for each VLAN

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

NEW QUESTION: 31

Which command prevents passwords from being stored in the configuration as plain text on a router or switch?

A. enable password

B. username Cisco password encrypt

C. service password-encryption

D. enable secret

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

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NEW QUESTION: 32

Which implementation provides the strongest encryption combination for the wireless environment?

A. WPA + TKIP

B. WPA2 + AES

C. WEP

D. WPA + AES

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

NEW QUESTION: 33

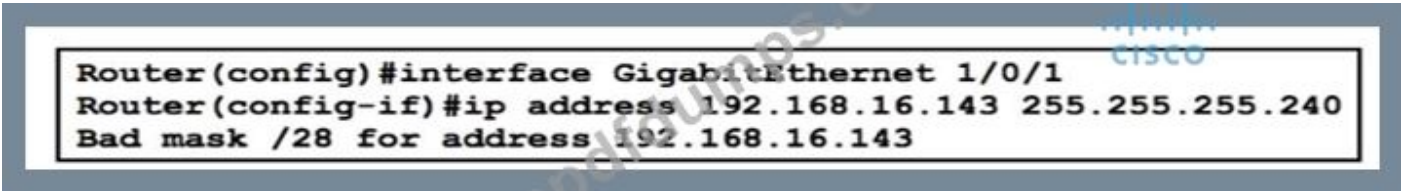
How does WPA3 improve security?

- A. It uses a 4-way handshake for authentication.
- B. It uses TKIP for encryption.
- C. It uses SAE for authentication.
- D. It uses RC4 for encryption.

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

NEW QUESTION: 34

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

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

NEW QUESTION: 35

The service password-encryption command is entered on a router. What is the effect of this configuration?

- A. protects the VLAN database from unauthorized PC connections on the switch
- B. encrypts the password exchange when a VPN tunnel is established
- C. restricts unauthorized users from viewing clear-text passwords in the running configuration
- D. prevents network administrators from configuring clear-text passwords

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

NEW QUESTION: 36

After a recent security breach and a RADIUS failure, an engineer must secure the console port of each enterprise router with a local username and password. Which configuration must the engineer apply to accomplish this task?

- `aaa new-model`
`line con 0`
`password plaintextpassword`
`privilege level 15`
- `username localuser secret plaintextpassword`
`line con 0`
`login authentication default`
`privilege level 15`
- `username localuser secret plaintextpassword`
`line con 0`
`no login local`
`privilege level 15`
- `aaa new-model`
`aaa authorization exec default local`
`aaa authentication login default radius`
`username localuser privilege 15 secret plaintextpassword`

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

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

NEW QUESTION: 37

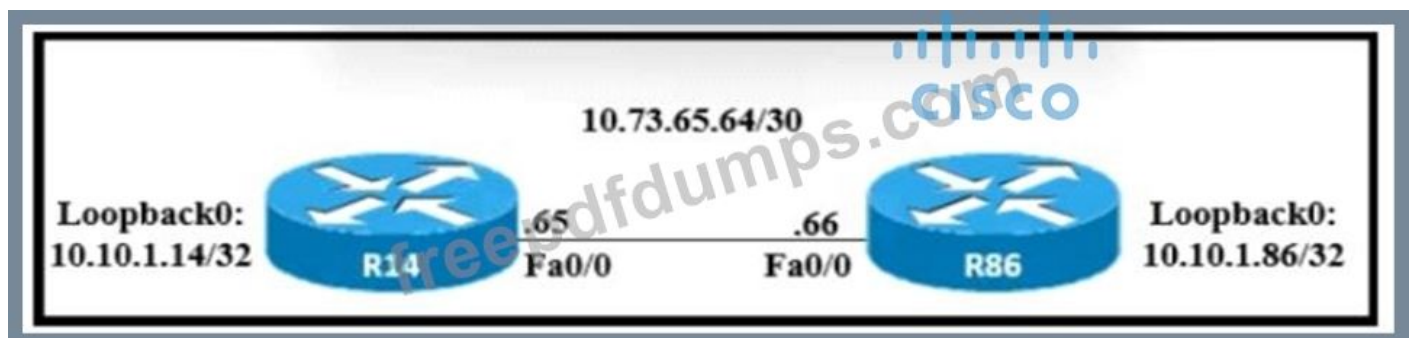
What does a router do when configured with the default DNS lookup settings, and a URL is entered on the CLI?

- A. continuously attempts to resolve the URL until the command is cancelled
- B. sends a broadcast message in an attempt to resolve the URL
- C. prompts the user to specify the desired IP address
- D. initiates a ping request to the URL

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

NEW QUESTION: 38

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 172.21.34.0 255.255.255.128 10.73.65.66`

- B. ip route 172.21.34.0 255.255.255.0 10.73.65.65
- 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: ([SHOW ANSWER](#))

NEW QUESTION: 39

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

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: 40

Physical connectivity is implemented between the two Layer 2 switches, and the network connectivity between them must be configured

1. Configure an LACP EtherChannel and number it as 1; configure it between switches SW1 and SVV2 using interfaces Ethernet0/0 and Ethernet0/1 on both sides. The LACP mode must match on both ends
- 2 Configure the EtherChannel as a trunk link.
3. Configure the trunk link with 802.1 q tags.
4. Configure the native VLAN of the EtherChannel as VLAN 15.

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the **Tasks** tab to view the tasks for this lab item.
- Refer to the **Topology** tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- **Save your configurations** to NVRAM before moving to the next item.
- Click **Next** at the bottom of the screen to submit this lab and move to the next question.
- When **Next** is clicked, the lab closes and cannot be reopened.

Answer:

Answer as below configuration:

On SW1:

```
conf terminal
vlan 15
exit
interface range eth0/0 - 1
channel-group 1 mode active
exit
interface port-channel 1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk native vlan 15
end
copy run start
```

on SW2:

```
conf terminal
vlan 15
exit
interface range eth0/0 - 1
channel-group 1 mode active
exit
interface port-channel 1
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk native vlan 15
```

end
copy run start

NEW QUESTION: 41

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

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

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

NEW QUESTION: 42

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 router ID on both routing processes
- B. Configure the interfaces as OSPF active on both sides.
- C. configure the same process ID for the router OSPF process
- D. configure the hello and dead timers to match on both sides
- E. configure both interfaces with the same area ID

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

NEW QUESTION: 43

Which result occurs when PortFast is enabled on an interface that is connected to another switch?

- A. Spanning tree may fail to detect a switching loop in the network that causes broadcast storms
- B. VTP is allowed to propagate VLAN configuration information from switch to switch automatically.
- C. Root port choice and spanning tree recalculation are accelerated when a switch link goes down
- D. After spanning tree converges PortFast shuts down any port that receives BPDUs.

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

Enabling the PortFast feature causes a switch or a trunk port to enter the STP forwarding-state immediately or upon a linkup event, thus bypassing the listening and learning states.

Note: To enable portfast on a trunk port you need the trunk keyword "spanning-tree portfast trunk"

NEW QUESTION: 44

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 the default gateway 0.0.0.070.
- B. It sends the traffic via prefix 172.31.0.0/24
- C. It sends the traffic via prefix 172.31.0.0/25
- D. It sends the traffic via prefix 172.31.0.0/16

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

NEW QUESTION: 45

Which two primary drivers support the need for network automation? (Choose two.)

- A. Reducing hardware footprint
- B. Increasing reliance on self-diagnostic and self-healing
- C. Providing a ship entry point for resource provisioning
- D. Policy-derived provisioning of resources
- E. Eliminating training needs

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

NEW QUESTION: 46

Refer the exhibit.

```

R19#sh int fa0/0
FastEthernet0/0 is up, line protocol is up
Hardware is DEC21140, address is ca02.7788.0000 (bia ca02.7788.0000)
Description: SALES_SUBNET
Internet address is 10.32.102.2/30
MTU 1500 bytes, BW 100000 Kbit/sec, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (60 sec)
Full-duplex, 100Mb/s, 100BaseTX/FX
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:01, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/300/0/0 (size/max/drops/flushes); Total output drops:
135298429
Queueing strategy: fifo
Output queue: 0/300 (size/max)
30 second input rate 0 bits/sec, 0 packets/sec
30 second output rate 0 bits/sec, 0 packets/sec
73310 packets input, 7101162 bytes
Received 73115 broadcasts (0 IP multicasts)
0 runs, 0 giants, 0 throttles
0 input errors, 4 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog
0 input packets with dribble condition detected
3927513096455 packets output, 14404034810952 bytes, 0 underruns
0 output errors, 11 collisions, 0 interface resets
  
```

What is the cause of poor performance on router R19?

- A. port oversubscription
- B. excessive CRC errors
- C. speed and duplex mismatch
- D. excessive collisions

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

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NEW QUESTION: 47

Drag the IPv6 DNS record types from the left onto the description on the right.

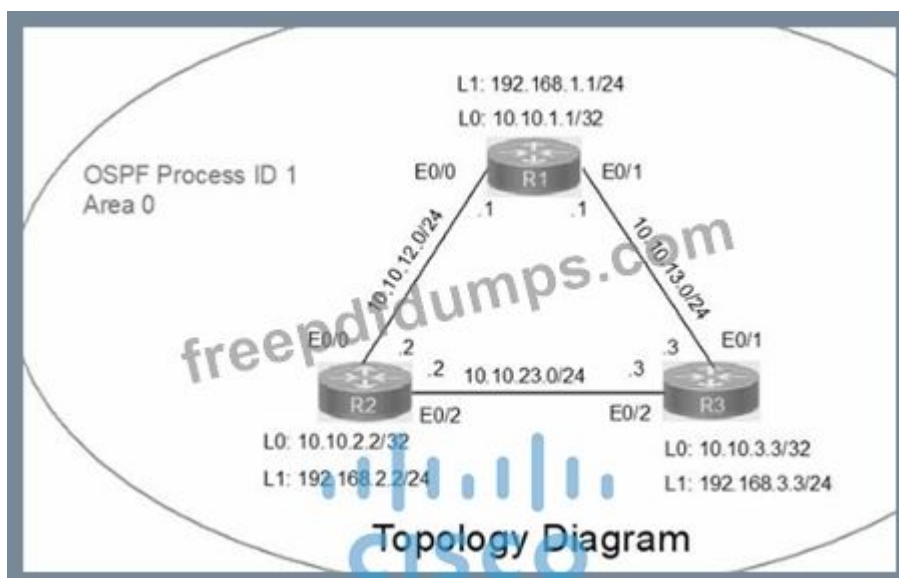
AAAA	aliases one name to another
CNAME	associates the domain serial number with its owner
NS	correlates a domain with its authoritative name servers
PTR	correlates a host name with an IP address
SOA	supports reverse name lookups

Answer:

AAAA	CNAME
CNAME	SOA
NS	NS
PTR	AAAA
SOA	PTR

NEW QUESTION: 48

Refer to the exhibit.



Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the **Tasks** tab to view the tasks for this lab item.
- Refer to the **Topology** tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- **Save your configurations** to NVRAM before moving to the next item.
- Click **Next** at the bottom of the screen to submit this lab and move to the next question.
- When **Next** is clicked, the tab closes and cannot be reopened.

IP connectivity between the three routers is configured. OSPF adjacencies must be established.

1. Configure R1 and R2 Router IDs using the interface IP addresses from the link that is shared between them.
2. Configure the R2 links with a max value facing R1 and R3. R2 must become the DR. R1 and R3 links facing R2 must remain with the default OSPF configuration for DR election. Verify the configuration after clearing the OSPF process.
3. Using a host wildcard mask, configure all three routers to advertise their respective Loopback1 networks.
4. Configure the link between R1 and R3 to disable their ability to add other OSPF routers.

Answer:

Answer as below configuration:

on R1

conf terminal

interface Loopback0

ip address 10.10.1.1 255.255.255.255

!

interface Loopback1


```
ip address 192.168.1.1 255.255.255.0
!
interface Ethernet0/0
no shut
ip address 10.10.12.1 255.255.255.0
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/1
no shut
ip address 10.10.13.1 255.255.255.0
ip ospf 1 area 0
duplex auto
!
router ospf 1
router-id 10.10.12.1
network 10.10.1.1 0.0.0.0 area 0
network 192.168.1.0 0.0.0.255 area 0
!
copy run star
```

On R2

```
conf terminal
interface Loopback0
ip address 10.10.2.2 255.255.255.255
!
interface Loopback1
ip address 192.168.2.2 255.255.255.0
!
interface Ethernet0/0
no shut
ip address 10.10.12.2 255.255.255.0
ip ospf priority 255
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/2
no shut
ip address 10.10.23.2 255.255.255.0
ip ospf priority 255
ip ospf 1 area 0
```

```
duplex auto
!  
router ospf 1  
network 10.10.2.2 0.0.0.0 area 0  
network 192.168.2.0 0.0.0.255 area 0  
!
```

```
copy runs start
```

```
-----
```

```
On R3  
conf ter  
interface Loopback0  
ip address 10.10.3.3 255.255.255.255  
!  
interface Loopback1  
ip address 192.168.3.3 255.255.255.0  
!  
interface Ethernet0/1  
no shut  
ip address 10.10.13.3 255.255.255.0  
ip ospf 1 area 0  
duplex auto  
!  
interface Ethernet0/2  
no shut  
ip address 10.10.23.3 255.255.255.0  
ip ospf 1 area 0  
duplex auto  
!  
router ospf 1  
network 10.10.3.3 0.0.0.0 area 0  
network 192.168.3.0 0.0.0.255 area 0  
!  
copy run start  
!
```

NEW QUESTION: 49

Drag and drop the QoS terms from the left onto the descriptions on the right.

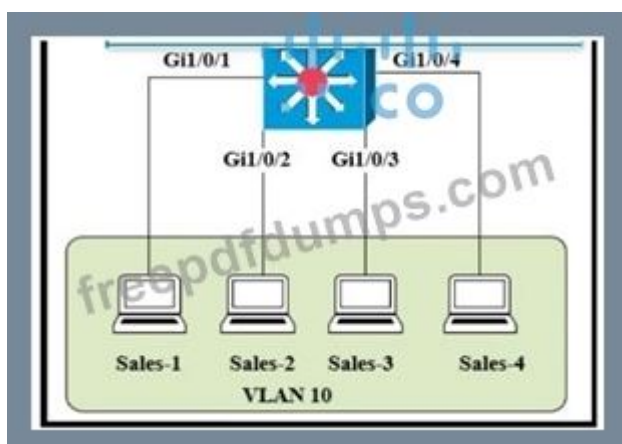
class-based weighted fair queueing	categorizes packets based on the value of a traffic descriptor
classification	guarantees minimum bandwidth to specific traffic classes when an interface is congested
congestion	prevents congestion by reducing the flow of outbound traffic
policing	outcome of overutilization
shaping	uses defined criteria to limit the transmission of one or more classes of traffic

Answer:



NEW QUESTION: 50

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.d3b8.957c	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: B ([LEAVE A REPLY](#))

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

NEW QUESTION: 51

2001:db8:600d:cafe::123	Global Unicast
fcba:926a:e8e:7a25:b1:c6d2:1a76:8fdc	Link-Local Unicast
fe80::a00:27ff:feeb:89aa	Multicast
ff05::1:3	Unique Local

Answer:



NEW QUESTION: 52

What is a characteristics of a collapsed-core network topology?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 53

Refer to the exhibit.



An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthernet3/1/4 port on a switch?

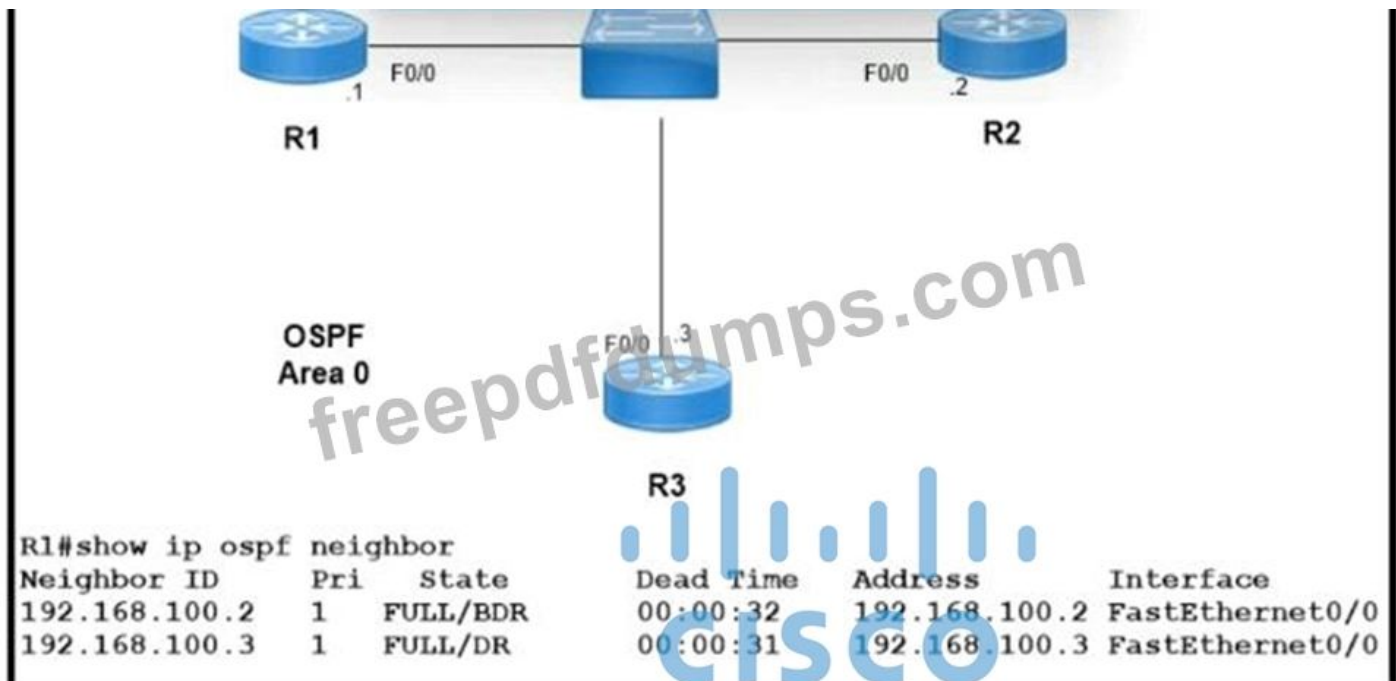
- A. The phone and a workstation that is connected to the phone do not have VLAN connectivity
- B. The phone and a workstation that is connected to the phone send and receive data in VLAN 50.
- C. The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connectivity

D. The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1

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

NEW QUESTION: 54

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 D

B. Option B

C. Option E

D. Option C

E. Option A

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 55

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

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

Answer: (SHOW ANSWER)

NEW QUESTION: 56

What is a function of MAC address learning?

- A. It is enabled by default on all VLANs and interfaces
- B. It increases security on the management VLAN
- C. It is disabled by default on all interfaces connected to trunks
- D. It increases the potential for MAC address flooding.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 57

Refer to the exhibit.

```
R2#show ip nat translations
Pro Inside global      Inside local  Outside local  Outside global
tcp 172.23.104.3:43268  10.4.4.4:43268 172.23.103.10:23 172.23.103.10:23
tcp 172.23.104.4:45507  10.4.4.5:45507 172.23.103.10:80 172.23.103.10:80
```

An engineer configured NAT translations and has verified that the configuration is correct.

Which IP address is the source IP?

- A. 10.4.4.4
- B. 10.4.4.5
- C. 172.23.103.10
- D. 172.23.104.4

Answer: D (LEAVE A REPLY)

NAT is used to send a packet to the outside network, using a public IP address to make it routable. The NAT logic is "inside-to-outside" FIRST and "outside-to-inside" THEN. This way, configuring NAT means "choosing a public IP address" for any outbound packet" IN THE FIRST PLACE, where "public IP address" translates to "inside global address". Among the given answers, the only inside global address is 172.123.104.4.

NEW QUESTION: 58

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: 59

Which communication interaction takes place when a southbound API is used?

- A. between network applications and switches and routers on the network
- B. between the SON controller and services and applications on the network
- C. between the SON controller and switches and routers on the network
- D. between the SDN controller and PCs on the network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 60

An engineer must configure a core router with a floating static default route to the backup router at 10.200.0.2.

The image shows a Cisco Packet Tracer configuration window for a core router. The window is divided into two main sections: 'DNS' and 'TCP/UDP'. The 'DNS' section contains a list of protocols: DNS, HTTP, RTP, SMTP, SNMP, and Telnet. The 'TCP/UDP' section contains two sub-sections: 'TCP' and 'UDP'. Each sub-section has three empty text boxes for configuration. A large 'CISCO' watermark is visible across the center of the interface.

Answer:



NEW QUESTION: 61

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. Loopback0
- C. 10.1.1.3
- D. 10.1.1.1

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 62

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
172.16.3.64	172.16.2.128
172.16.2.128	172.16.3.64
172.16.3.192	172.16.3.128
172.16.4.0	172.16.3.192

NEW QUESTION: 63

Refer to the exhibit.



An engineer configured the New York router with state routes that point to the Atlanta and Washington sites. When command must be configured on the Atlanta and Washington routers so that both sites are able to reach the loopback2 interface on the New York router?

- A. `ip route 0.0.0.0.0.0.0.0 Serial 0/0/0`
- B. `ipv6 route ::/0 2000::2`
- C. `ipv6 route ::/0 Serial 0/0/1`
- D. `ipv6 route ::/0 Serial 0/0/0`
- E. `ipv6 route 0/0 Serial 0/0/0`

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

NEW QUESTION: 64

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: 65

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

E. Configure the ports in an EtherChannel.

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

NEW QUESTION: 66

Which PoE mode enables powered-device detection and guarantees power when the device is detected?

- A. dynamic
- B. static
- C. active
- D. auto

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

NEW QUESTION: 67

How do servers connect to the network in a virtual environment?

- A. a virtual switch that links to an access point that is physically connected to the network
- B. wireless to an access point that is physically connected to the network
- C. a software switch on a hypervisor that is physically connected to the network
- D. a cable connected to a physical switch on the network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 68

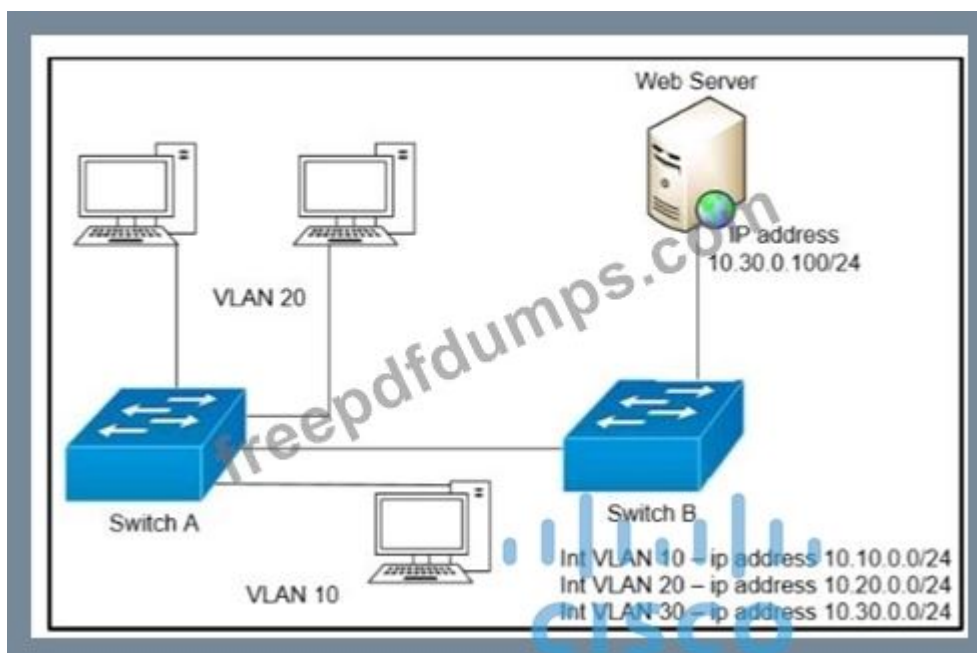
What is a DNS lookup operation?

- A. DNS server forwards the client to an alternate IP address when the primary IP is down
- B. serves requests over destination port 53
- C. DNS server pings the destination to verify that it is available
- D. responds to a request for IP address to domain name resolution to the DNS server

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 69

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: ([SHOW ANSWER](#))

NEW QUESTION: 70

Drag and chop the TCP/IP protocols from the left onto their primary transmission protocols on the right.



Answer:



NEW QUESTION: 71

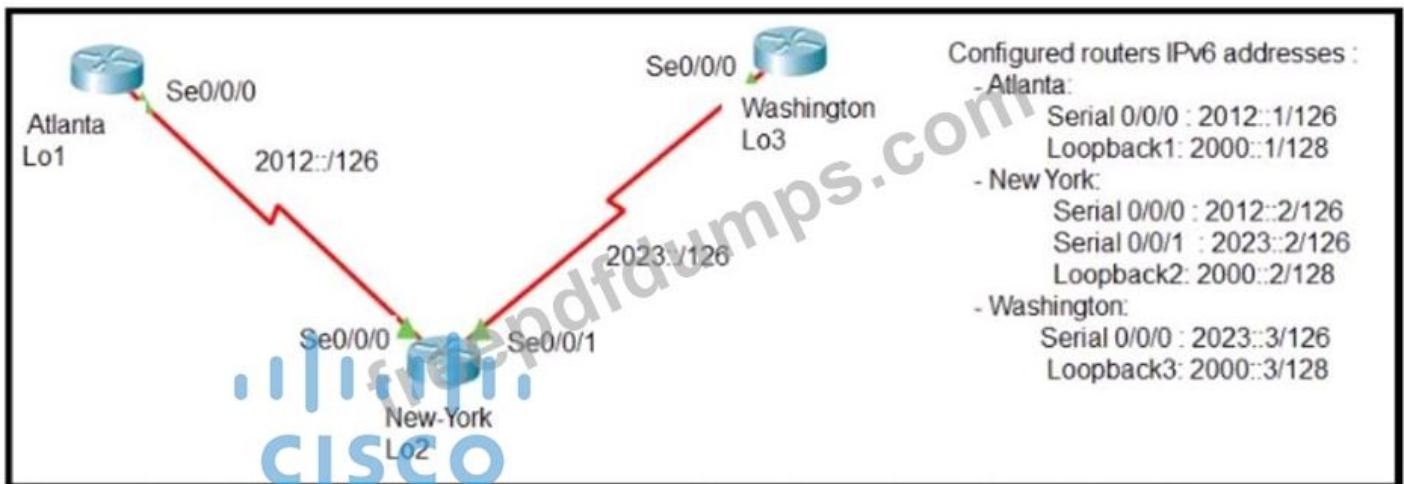
An engineer is configuring router R1 with an IPv6 static route for prefix 2019:C15C:0CAF:E001::/64. The next hop must be 2019:C15C:0CAF:E002::1. The route must be reachable via the R1 Gigabit 0/0 interface. Which command configures the designated route?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 72

Refer to the exhibit.



The New York router is configured with static routes pointing to the Atlanta and Washington sites. Which two tasks must be performed so that the Serial0/0/0 interfaces on the Atlanta and Washington routers can reach one another?

(Choose two.)

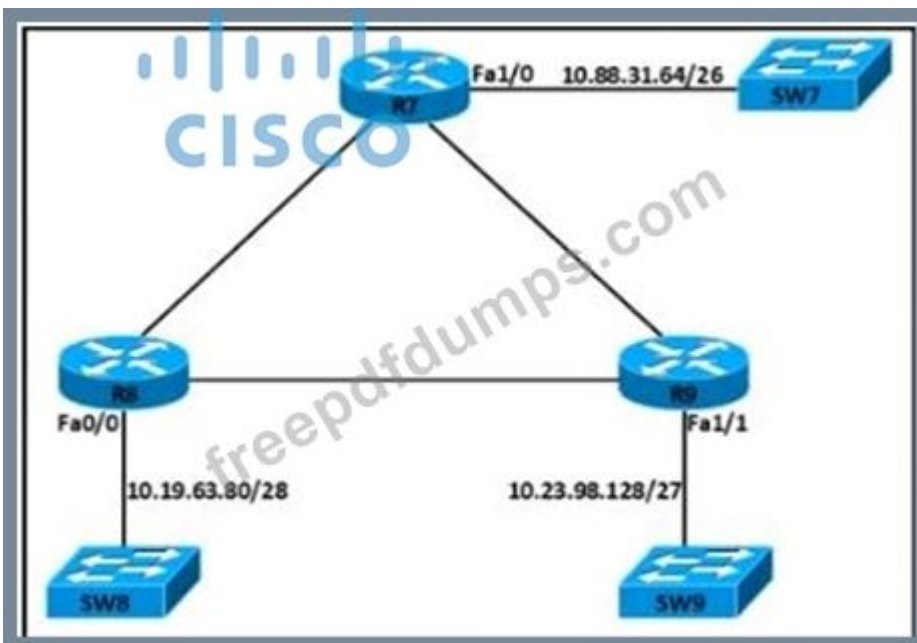
- A. Configure the ipv6 route 2012::/126 2023::1 command on the Washington router.
- B. Configure the ipv6 route 2023::/126 2012::1 command on the Atlanta router.
- C. Configure the Ipv6 route 2012::/126 s0/0/0 command on the Atlanta router.
- D. Configure the ipv6 route 2023::/126 2012::2 command on the Atlanta router.
- E. Configure the ipv6 route 2012::/126 2023::2 command on the Washington router.

Answer: ([SHOW ANSWER](#))

The short syntax of static IPv6 route is: `ipv6 route <destination-IPv6-address> {next-hop-IPv6-address | exit-interface}`

NEW QUESTION: 73

Refer to the exhibit.



Refer to the exhibit. Each router must be configured with the last usable IP address in the subnet. Which configuration fulfills this requirement?

```
R7#  
interface FastEthernet1/0  
ip address 10.88.31.126 255.255.255.240  
  
R8#  
interface FastEthernet0/0  
ip address 10.19.63.94 255.255.255.192  
  
R9#  
interface FastEthernet1/1  
ip address 10.23.98.158 255.255.255.248  
  
R7#  
interface FastEthernet1/0  
ip address 10.88.31.127 255.255.255.240  
  
R8#  
interface FastEthernet0/0  
ip address 10.19.63.95 255.255.255.192  
  
R9#  
interface FastEthernet1/1  
ip address 10.23.98.159 255.255.255.248  
  
R7#  
interface FastEthernet1/0  
ip address 10.88.31.126 255.255.255.192  
  
R8#  
interface FastEthernet0/0  
ip address 10.19.63.94 255.255.255.240  
  
R9#  
interface FastEthernet1/1  
ip address 10.23.98.158 255.255.255.224  
  
R7#  
interface FastEthernet1/0  
ip address 10.88.31.127 255.255.255.192  
  
R8#  
interface FastEthernet0/0  
ip address 10.19.63.95 255.255.255.240  
  
R9#  
interface FastEthernet1/1  
ip address 10.23.98.159 255.255.255.224
```

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

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

NEW QUESTION: 74

Refer to the exhibit.

```
Cat9K-1# show lldp entry Cat9K-2
Local Intf: G1/0/21
Chassis id: 308b.b2b3.2880
Port id: G1/0/21
Port Description: GigabitEthernet1/0/21
System Name: Cat9K-2
Management Addresses:
IP: 10.5.110.2
```

The network administrator must prevent the switch Cat9K-2 IP address from being visible in LLDP without disabling the protocol. Which action must be taken must be taken to complete the task?

- A. Configure the no lldp transmit command on interface G1/0/21 in Cat9K-1
- B. Configure the no lldp receive command on interface G1/0/21 on Cat9K-1
- C. Configure the no lldp tlv-select-management-address command globally on Cat9K-2
- D. Configure the no lldp mac-phy-cfg command globally on Cat9K-2

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

NEW QUESTION: 75

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

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

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

NEW QUESTION: 76

Which command implies the use of SNMPv3?

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

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

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NEW QUESTION: 77

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 78

How does encryption protect the wireless network?

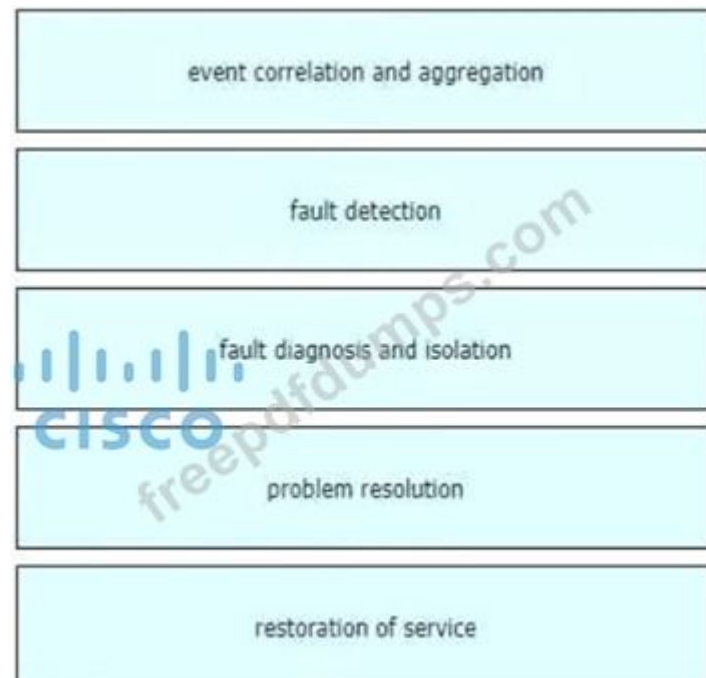
- A. via a policy to prevent unauthorized users from communicating on the wireless network
- B. via specific ciphers to detect and prevent zero-day network attacks
- C. via integrity checks to identify wireless forgery attacks in the frame
- D. via an algorithm to change wireless data so that only the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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 79

Drag and drop the functions of SNMP fault-management from the left onto the definitions on the right.

Answer:



NEW QUESTION: 80

Refer to the exhibit.



The `ntp server 192.168.0.3` command has been configured on router 1 to make it an NTP client of router 2. Which command must be configured on router 2 so that it operates in server-only mode and relies only on its internal clock?

- A. `Router2(config)#ntp passive`
- B. `Router2(config)#ntp server 172.17.0.1`
- C. `Router2(config)#ntp master 4`
- D. `Router2(config)#ntp server 192.168.0.2`

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

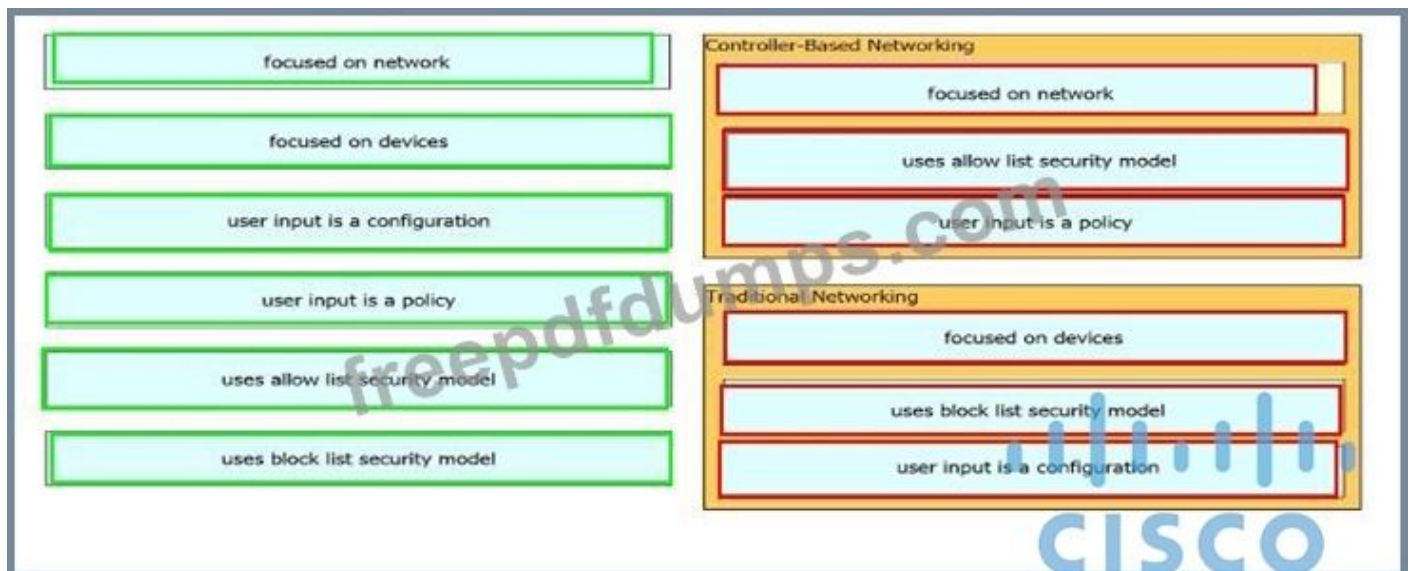
* To use internal clock of this router, use any configured IP address in any interface of this router.

NEW QUESTION: 81

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

focused on network	Controller-Based Networking
focused on devices	
user input is a configuration	
user input is a policy	Traditional Networking
uses allow list security model	
uses block list security model	

Answer:



NEW QUESTION: 82

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 SQL server.

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

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

NEW QUESTION: 83

On workstations running Microsoft Windows, which protocol provides the default gateway for the device?

- A. STP
- B. DHCP
- C. DNS
- D. SNMP

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

NEW QUESTION: 84

Refer to the exhibit.

```
ip arp inspection vlan 2-10
interface fastethernet 0/1
ip arp inspection trust
```

If the network environment is operating normally, which type of device must be connected to interface FastEthernet 0/1?

- A. access point
- B. PC
- C. DHCP client
- D. router

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 85

Refer to the exhibit.

```
Hardware is ISR4331-3x1GE, address is 5486.bc25.1f70 (bia 5486.bc25.1f70)
Description: << WAN Link >>
Internet address is 192.0.2.2/30
MTU 1500 bytes, BW 1000000 Kbit/sec, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not supported
Full Duplex, 1000Mbps, link type is auto, media type is RJ45
output flow-control is off, input flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:11, 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 7000 bits/sec, 4 packets/sec
5 minute output rate 4000 bits/sec, 4 packets/sec
  22579370 packets input, 8825545968 bytes, 0 no buffer
    Received 67 broadcasts (0 IP multicasts)
      0 runs, 0 giants, 0 throttles
    3612699 input errors, 3612699 CRC, 0 frame, 0 overrun, 0 ignored
      0 watchdog, 10747057 multicast, 0 pause input
    12072167 packets output, 1697953637 bytes, 0 underruns
      0 output errors, 0 collisions, 1 interface resets
    6 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    5 lost carrier, 0 no carrier, 0 pause output
    0 output buffer failures, 0 output buffers swapped out
```

What is a reason for poor performance on the network interface?

- A. The interface is operating at a different speed than the connected device.
- B. The interface is receiving excessive broadcast traffic.
- C. The cable connection between the two devices is faulty.
- D. The bandwidth setting of the interface is misconfigured

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 86

Refer to the exhibit.

```
R1# show ip route
```

```
D    192.168.16.0/26 [90/2679326] via 192.168.1.1  
R    192.168.16.0/24 [120/3] via 192.168.1.2  
O    192.168.16.0/21 [110/2] via 192.168.1.3  
i L1 192.168.16.0/27 [115/30] via 192.168.1.4
```

Which route does R1 select for traffic that is destined to 192.168.16.2?

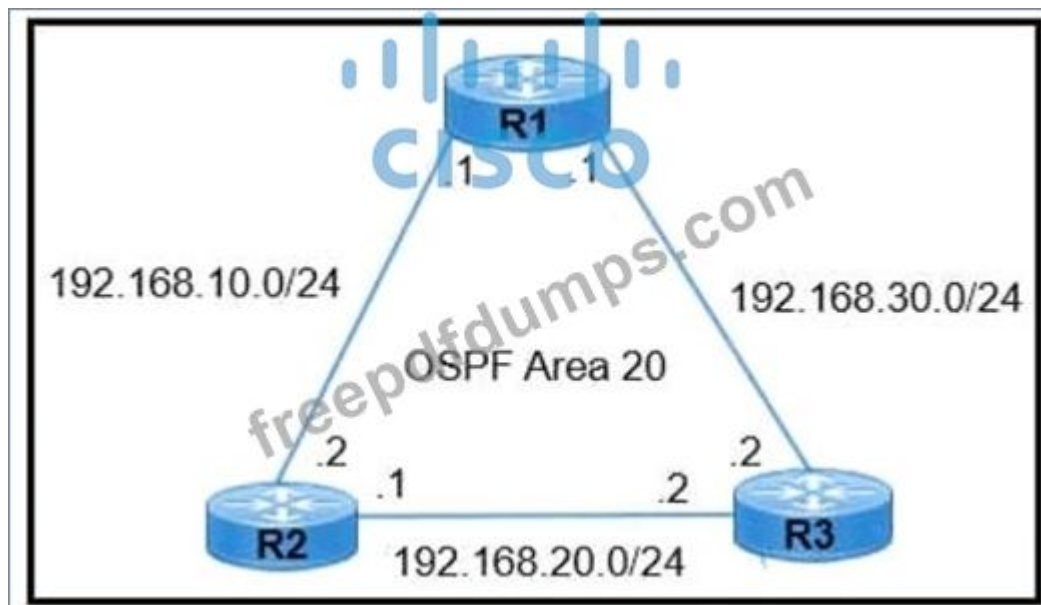
- A. 192.168.16.0/21
- B. 192.168.16.0/24
- C. 192.168.16.0/26
- D. 192.168.16.0/27

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

The destination IP addresses match all four entries in the routing table but the 192.168.16.0/27 has the longest prefix so it will be chosen. This is called the "longest prefix match" rule.

NEW QUESTION: 87

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

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

NEW QUESTION: 88

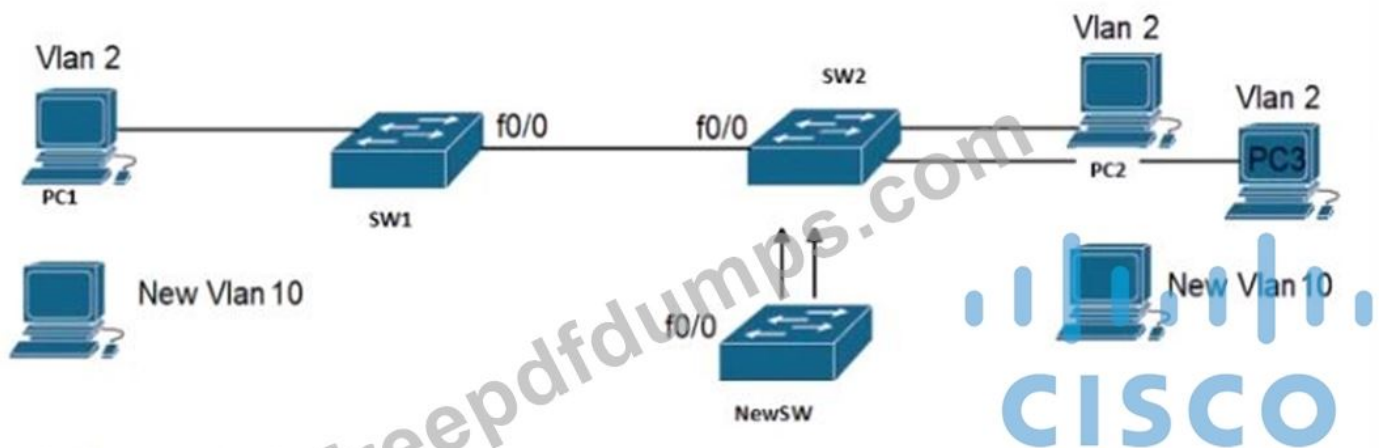
Which two WAN architecture options help a business improve scalability and reliability for the network? (Choose two.)

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

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

NEW QUESTION: 89

Refer to the exhibit.



```
SW1#show interface
interface FastEthernet0/0
switchport access vlan 2
switchport mode access
```

An engineer is configuring a new Cisco switch NewSW, to replace SW2. The details have been provided.

- * Switches SW1 and SW2 are third-party devices without support for trunk ports
- * The existing connections must be maintained between PC1, PC2, and PC3
- * Allow the switch to pass traffic from future VLAN 10. Which configuration must be applied?

A)

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode access
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 10
```

B)

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode trunk
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 2
```

C)


```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode trunk
NewSW(config-if)#switchport trunk allowed vlan 10
NewSW(config-if)#switchport trunk native vlan 10
```

D)

```
NewSW(config)#interface f0/0
NewSW(config-if)#switchport mode access
NewSW(config-if)#switchport trunk allowed vlan 2,10
NewSW(config-if)#switchport trunk native vlan 2
```

A. Option A

B. Option B

C. Option D

D. Option C

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

NEW QUESTION: 90

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-76-3F-7C-57-DF
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:f755%12(Preferred)
. . . . . : 192.168.1.20(Preferred)
. . . . . : 255.255.255.0
. . . . . : 192.168.1.1
DHCPv6 IAID . . . . . : 263747135
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 required to verify that the network parameters are valid for the users wireless LAN connectivity on a /24 subnet. Drag and drop the values from the left onto the network parameters on the right. Not all values are used.

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
1A-76-3F-7C-57-DF	network address
192.168.1.0	

Answer:

192.168.1.1	192.168.1.255
192.168.1.20	192.168.1.1
192.168.1.254	192.168.1.20
192.168.1.255	192.168.1.254
B8-76-3F-7C-57-DF	B8-76-3F-7C-57-DF
1A-76-3F-7C-57-DF	192.168.1.0
192.168.1.0	

NEW QUESTION: 91

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

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

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

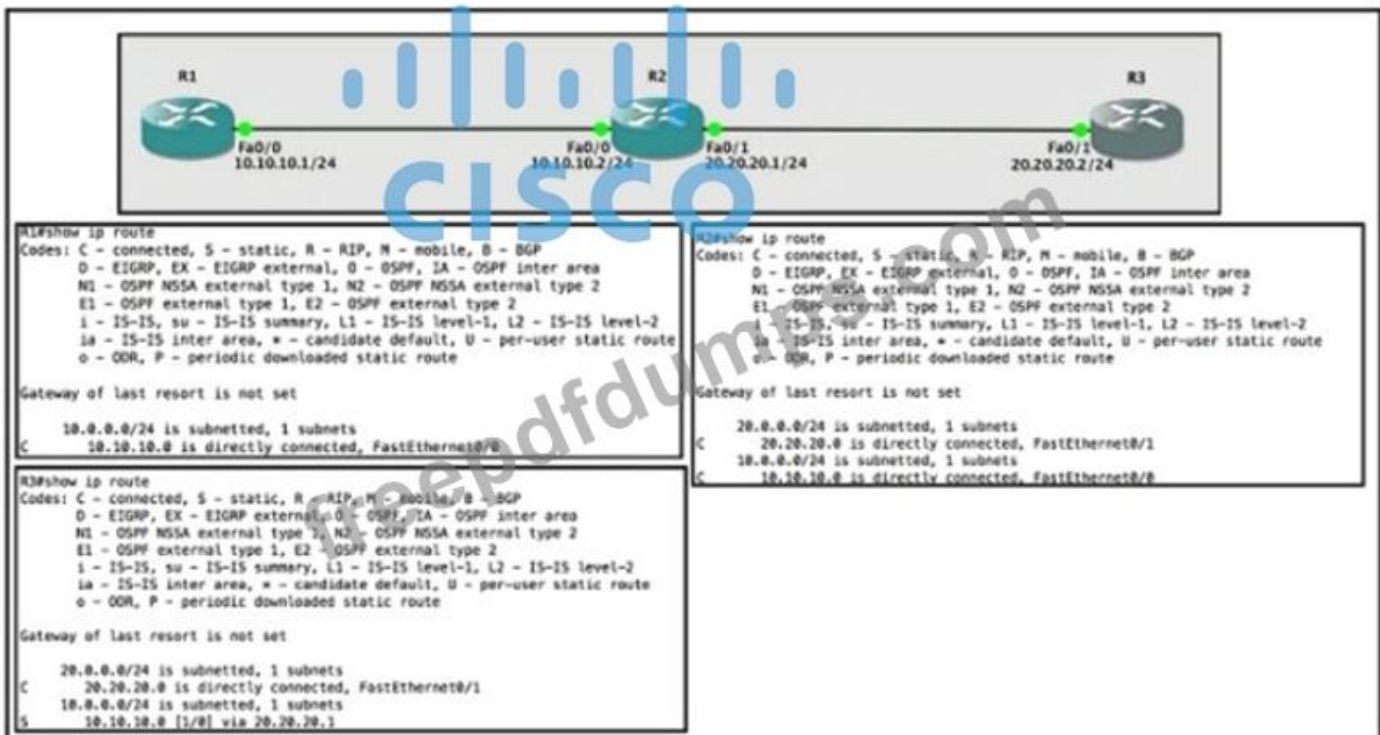
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NEW QUESTION: 92

Refer to the exhibit.



Router R1 Fa0/0 is unable ping router R3 Fa0/1.

Which action must be taken in router R1 to help resolve the configuration issue?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 93

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

- A. Kerberos

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

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

NEW QUESTION: 94

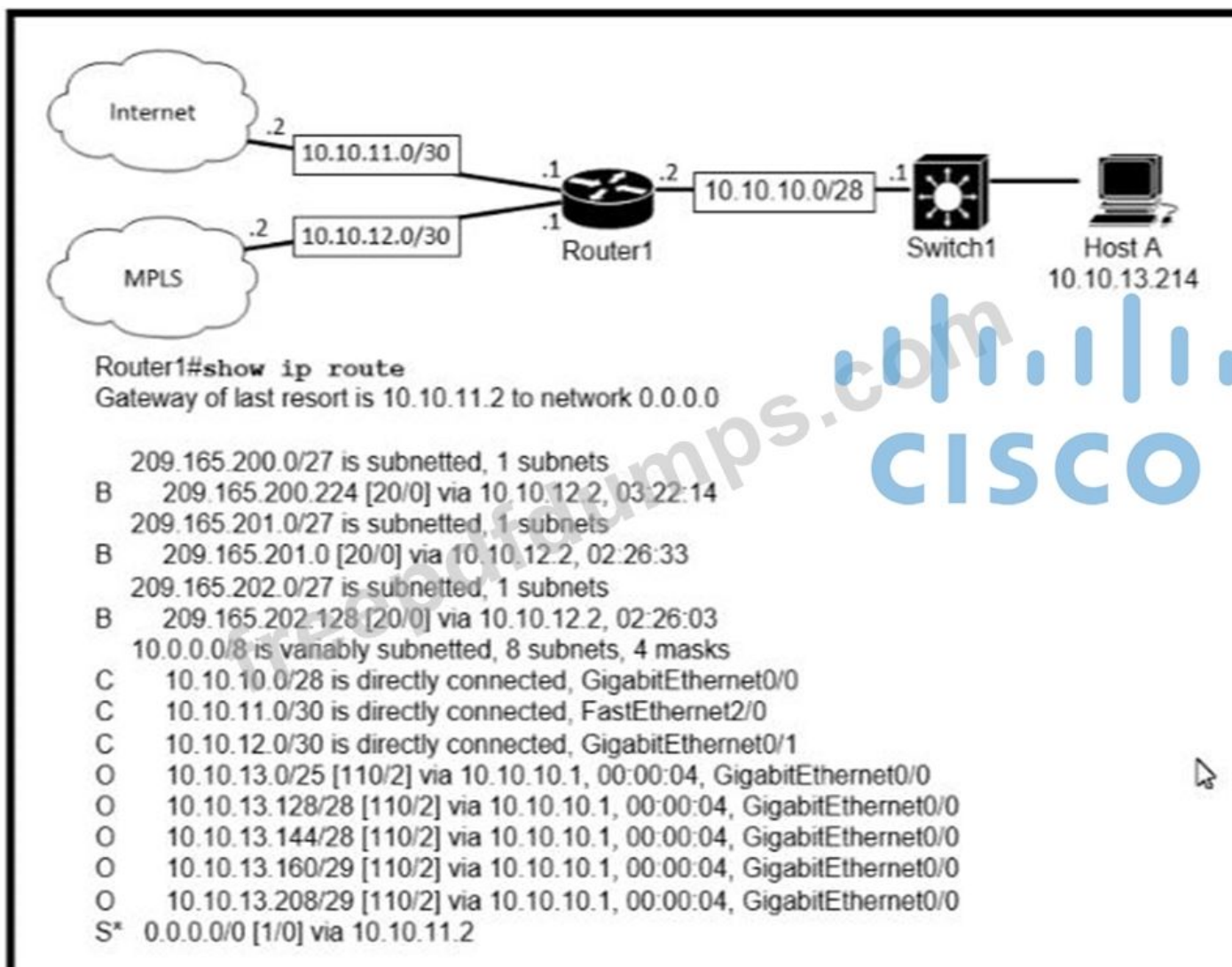
What are two benefits of network automation? (Choose two)

- A. reduced operational costs
- B. reduced hardware footprint
- C. faster changes with more reliable results
- D. increased network security
- E. fewer network failures

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 95

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: 96

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 peer 192.168.1.1
SW1(config)#ntp access-group peer accesslist1
```

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 backup
SW1(config)#ntp server 192.168.1.1
```

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

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

NEW QUESTION: 97

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. UDP sets up a connection between both devices before transmitting data. TCP uses the three-way handshake to transmit data with a reliable connection.
- C. TCP requires the connection to be established before transmitting data. UDP transmits data at a higher rate without ensuring packet delivery.

D. 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.

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

NEW QUESTION: 98

Which two events occur automatically when a device is added to Cisco DNA Center? (Choose two.)

- A.** The device is assigned to the Global site.
- B.** The device is placed into the Unmanaged state.
- C.** The device is placed into the Provisioned state.
- D.** The device is assigned to the Local site.
- E.** The device is placed into the Managed state.

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

NEW QUESTION: 99

What benefit does controller-based networking provide versus traditional networking?

- A.** allows configuration and monitoring of the network from one centralized port
- B.** combines control and data plane functionality on a single device to minimize latency
- C.** provides an added layer of security to protect from DDoS attacks
- D.** moves from a two-tier to a three-tier network architecture to provide maximum redundancy

Answer: (SHOW ANSWER)

NEW QUESTION: 100

Refer to the exhibit.

```
R1# show ip route
Codes: C - connected, S - static, I - ISRP, 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, * - 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 is directly connected, Loopback0
  10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O    10.0.1.0/32 [110/100] via 10.0.1.3, 00:39:08, Serial0
C    10.0.1.0/24 is directly connected, Serial0
O    10.0.1.3/32 [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.** 10.0.1.4
- B.** 10.0.1.3
- C.** 10.0.1.50
- D.** Loopback D

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

NEW QUESTION: 101

R1 has learned route 10.10.10.0/24 via numerous routing protocols. Which route is installed?

- A.** route with the shortest prefix length

- B. route with the lowest cost
- C. route with the lowest administrative distance
- D. route with the next hop that has the highest IP

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

NEW QUESTION: 102

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. F0/0
- B. F0/3
- C. F0/1
- D. F0/4

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

NEW QUESTION: 103

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. client exclusion
- C. passive client
- D. DHCP address assignment

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

NEW QUESTION: 104

An engineer requires a scratch interface to actively attempt to establish a trunk link with a neighbor switch. What command must be configured?

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

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

NEW QUESTION: 105

Which set of action satisfy the requirement for multifactor authentication?

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

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

This is an example of how two-factor authentication (2FA) works: 1. The user logs in to the website or service with their username and password. 2. The password is validated by an authentication server and, if correct, the user becomes eligible for the second factor. 3. The authentication server sends a unique code to the user's second-factor method (such as a smartphone app). 4. The user confirms their identity by providing the additional authentication for their second-factor method.

NEW QUESTION: 106

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 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, Serial0
O 10.0.10.0/24 [110/10] via 10.0.1.4, 00:39:08, Gigabit Ethernet 0/0
D 10.0.10.0/24 [90/10] via 10.0.1.5, 00:39:08, Gigabit Ethernet 0/1
```

Web traffic is coming in from the WAN interface. Which route takes precedence when the router is processing traffic destined for the LAN network at 10.0.10.0/24?

- A. via next-hop 10.0.1.100
- B. via next-hop 10.0.1.50
- C. via next-hop 10.0.1.5
- D. via next-hop 10.0.1.4

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

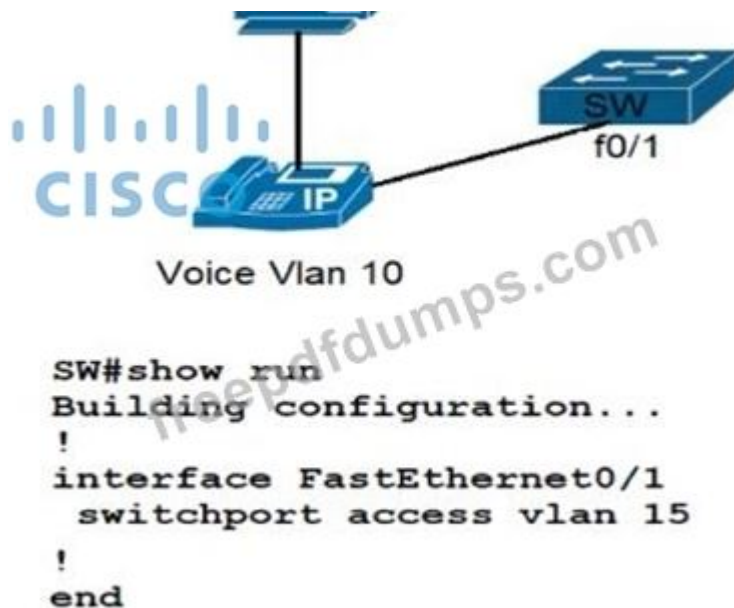
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NEW QUESTION: 107

Refer to the exhibit.



All VLANs are present in the VLAN database. Which command sequence must be applied to complete the configuration?

- A. interface FastEthernet0/1 switchport mode access switchport voice vlan 10
- B. Interface FastEthernet0/1 switchport trunk allowed vlan add 10 vlan 10 private-vlan isolated
- C. Interface FastEthernet0/1 switchport trunk native vlan 10 switchport trunk allowed vlan 10,15
- D. Interface FastEthernet0/1 switchport mode trunk switchport trunk allowed vlan 10,15

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

NEW QUESTION: 108

OSPF must be configured between routers R1 and R2. Which OSPF configuration must be applied to router R1 to avoid a DR/BDR election?

- A. router ospf 1
network 192.168.1.1 0.0.0.0 area 0
hello interval 15
interface e1/1
ip address 192.168.1.1 255.255.255.252
- B. router ospf 1
network 192.168.1.1 0.0.0.0 area 0

```
interface e1/1
ip address 192.168.1.1 255.255.255.252
ip ospf cost 0
```

C. router ospf 1

```
network 192.168.1.1 0.0.0.0 area 0
```

```
interface e1/1
```

```
ip address 192.168.1.1 255.255.255.252
```

```
ip ospf network broadcast
```

D. router ospf 1

```
network 192.168.1.1 0.0.0.0 area 0
```

```
interface e1/1
```

```
ip address 192.168.1.1 255.255.255.252
```

```
ip ospf network point-to-point
```

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

NEW QUESTION: 109

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

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

B. They prevent loops in the Layer 2 network.

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

D. They enable automatic failover of the default gateway.

E. They allow encrypted traffic.

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

NEW QUESTION: 110

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

A. Eliminate redundancy with a link failure in the data path.

B. Permit multiple VLANs to provide out-of-band management.

C. Allow multiple VLAN to be used in the data path.

D. Provide redundancy if there is a link failure for out-of-band management.

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

NEW QUESTION: 111

Which global command encrypt all passwords in the running configuration?

A. password-encrypt

B. service password-encryption

C. enable password-encryption

D. enable secret

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

NEW QUESTION: 112

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 113

Which two wireless security stewards use Counter Mode Cipher Block Chaining Message Authentication Code Protocol for encryption and data integrity'? (Choose two.)

- A. WEP
- B. WPA
- C. WPA2
- D. Wi-Fi 6
- E. WPA3

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 114

Which device performs stateful inspection of traffic?

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 115

Drag and drop the Cisco IOS attack mitigation features from the left onto the types of network attack they mitigate on the right.

DHCP snooping	rogue server that spoofs IP configuration
Dynamic ARP Inspection	cache poisoning
IP Source Guard	flood attacks
storm control	rogue clients on the network

Answer:



NEW QUESTION: 116

What are two functions of an SDN controller? (Choose two)

- A. coordinating VTNs
- B. managing the topology
- C. Layer 2 forwarding
- D. protecting against DDoS attacks
- E. tracking hosts

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

NEW QUESTION: 117

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 0.0.0.255
ip nat inside source list 1 pool mypool
interface g1/1
ip nat inside
interface g1/2
ip nat outside

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

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

NEW QUESTION: 118

Where does the configuration reside when a helper address is configured to support DHCP?

- A. on the router closest to the client
- B. on the router closest to the server
- C. on the switch trunk interface
- D. on every router along the path

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

NEW QUESTION: 119

What are two roles of Domain Name Services (DNS)? (Choose Two)

- A. improves security by protecting IP addresses under Fully Qualified Domain Names (FQDNs)
- B. encrypts network Traffic as it travels across a WAN by default
- C. builds a flat structure of DNS names for more efficient IP operations
- D. enables applications to identify resources by name instead of IP address
- E. allows a single host name to be shared across more than one IP address

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

NEW QUESTION: 120

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

- A. configuring a password for the console port
- B. backing up syslogs at a remote location

- C. configuring enable passwords on network devices
- D. setting up IP cameras to monitor key infrastructure

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

NEW QUESTION: 121

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right.

transmitted based on data contained in the packet without the need for a data channel

requires the client and the server to establish a connection before sending the packet

used to reliably share files between devices

appropriate for streaming operations with minimal latency

TCP

UDP

Answer:

transmitted based on data contained in the packet without the need for a data channel

requires the client and the server to establish a connection before sending the packet

used to reliably share files between devices

appropriate for streaming operations with minimal latency

TCP

requires the client and the server to establish a connection before sending the packet

used to reliably share files between devices

UDP

transmitted based on data contained in the packet without the need for a data channel

appropriate for streaming operations with minimal latency

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NEW QUESTION: 122

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: 123

Refer to the 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 by the router when a packet is sourced from 10.10.10.2 and destined 10.10.10.16?

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

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

NEW QUESTION: 124

Which WAN access technology is preferred for a small office / home office architecture?

- A. dedicated point-to-point leased line
- B. Integrated Services Digital Network switching.
- C. frame-relay packet switching
- D. broadband cable access

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

NEW QUESTION: 125

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

- A. 2002:db84:3f37:ca98:be05:8/64
- B. 2001:db8:0234:ca3e::1/128
- C. FF00:1/12
- D. FE80::1/10

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

NEW QUESTION: 126

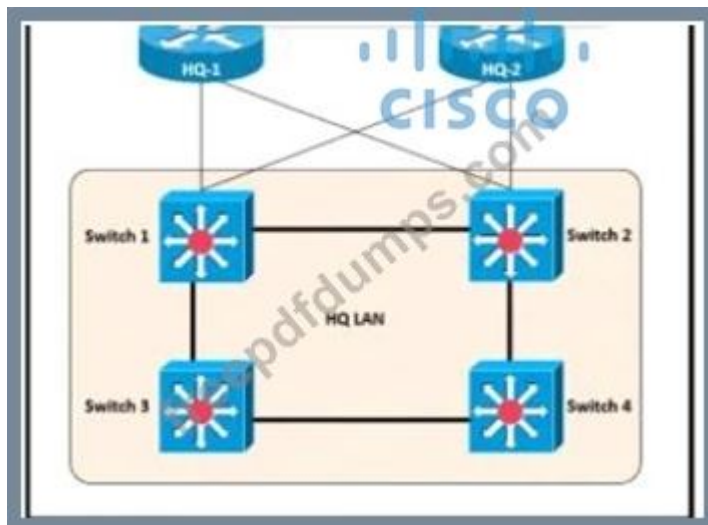
Which two network actions occur within the data plane? (Choose two.)

- A. Reply to an incoming ICMP echo request.
- B. Run routing protocols.
- C. Make a configuration change from an incoming NETCONF RPC.
- D. Add or remove an 802.1Q trunking header.
- E. Match the destination MAC address to the MAC address table.

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

NEW QUESTION: 127

Refer to the exhibit.



After the election process what is the root bridge in the HQ LAN?

Switch 1: 0C:E0:38:58:15:77
Switch 2: 0C:0E:15:22:1A:61
Switch 3: 0C:0E:15:1D:3C:9A
Switch 4: 0C:E0:19:A1:4D:16

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

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

The root bridge is determined by the lowest bridge ID, which consists of the priority value and the MAC address. Because the priority values of all of the switches are not available, the MAC address is used to determine the root bridge. Because S3 has the lowest MAC address, S3 becomes the root bridge.

NEW QUESTION: 128

Drag and drop the SNMP manager and agent identifier commands from the left onto the functions on the right

show snmp chassis	displays information about the SNMP recipient
show snmp community	displays the IP address of the remote SNMP device
show snmp engineID	displays the SNMP security model in use
show snmp group	displays the SNMP access string
show snmp host	displays the SNMP server serial number

Answer:

show snmp chassis	show snmp host
show snmp community	show snmp engineID
show snmp engineID	show snmp group
show snmp group	show snmp community
show snmp host	show snmp chassis

NEW QUESTION: 129

Refer to the exhibit.


```

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

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

```

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

A)

```

R2(config)#router ospf 1
R2(config-router)#network 192.168.1.0 255.255.255.0 area 2
R2(config-router)#network 10.1.1.0 255.255.255.255 area 2

```

B)

```

R2(config)#router ospf 1
R2(config-router)#router-id 192.168.1.2

```

C)

```

R2(config)#interface g0/0/0
R2(config-if)#ip ospf dead-interval 20

```

D)

```

R2(config)#interface g0/0/0
R2(config-if)#ip ospf hello-interval 15
R2(config-if)#ip ospf dead-interval 20

```

A. Option

B. Option

C. Option

D. Option

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

NEW QUESTION: 130

Which two command sequences must you configure on switch to establish a Layer 3 EtherChannel with an open-standard protocol? (Choose two)

A. interface GigabitEthernet0/0/1

channel-group 10 mode active

B. interface port-channel 10

switchport

switchport mode trunk

C. interface GigabitEthernet0/0/1

channel-group 10 mode auto

D. interface GigabitEthernet0/0/1

channel-group 10 mode on

E. interface port-channel 10

no switchport

ip address 172.16.0.1.255.255.255.0

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

NEW QUESTION: 131

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

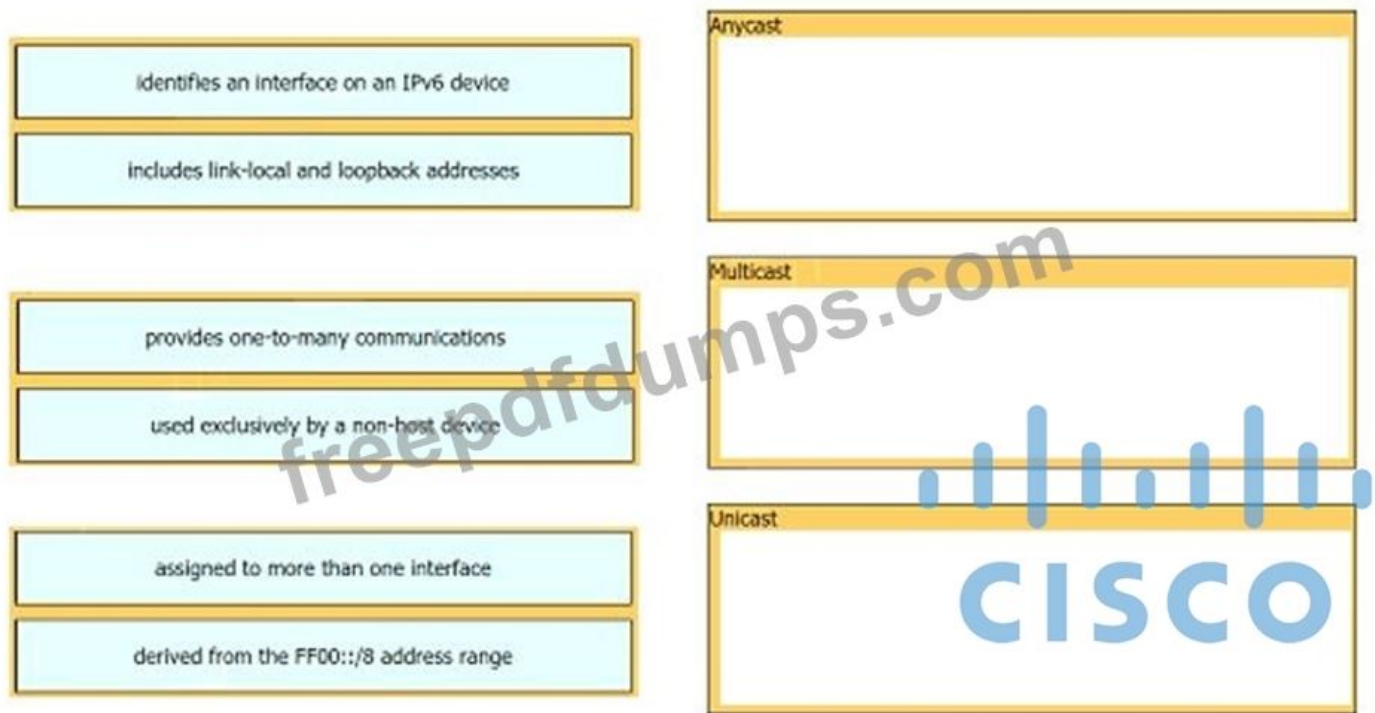
D. administrative distance

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

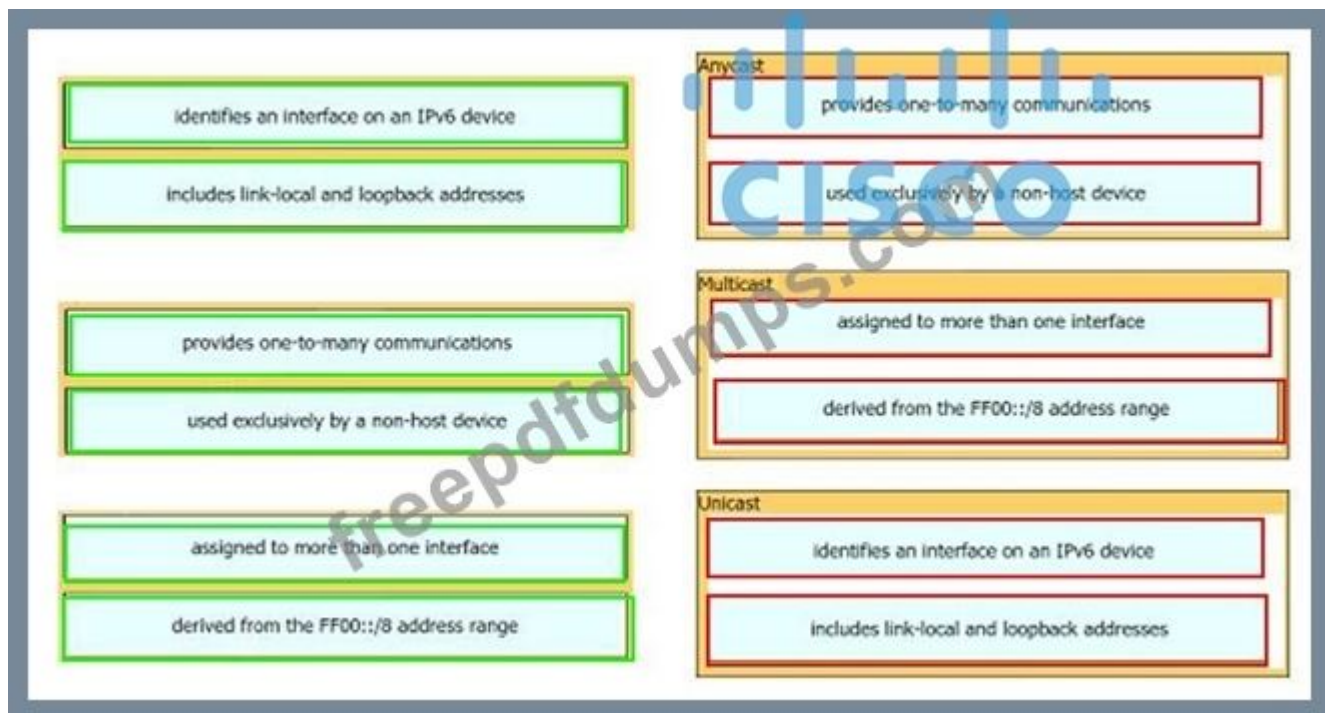
<https://learningnetwork.cisco.com/s/question/0D53i00000KszSICAJ/administrative-distance-vs-longest-match-rule>

NEW QUESTION: 132

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



Answer:



NEW QUESTION: 133

Which CRUD operation modifies an existing table or view?

- A. update
- B. replace
- C. read
- D. create

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 134

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: 135

What is the role of disaggregation in controller-based networking?

- A. It summarizes the routes between the core and distribution layers of the network topology.
- B. It divides the control-plane and data-plane functions.
- C. It streamlines traffic handling by assigning individual devices to perform either Layer 2 or Layer 3 functions.
- D. It enables a network topology to quickly adjust from a ring network to a star network

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 136

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

holds the TCP/IP settings to be distributed to the clients

resolves web URLs to IP addresses

stores a list of IP addresses mapped to names

assigns a default gateway to a client

assigns IP addresses to enabled clients

DHCP Server

DNS Server

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CISCO

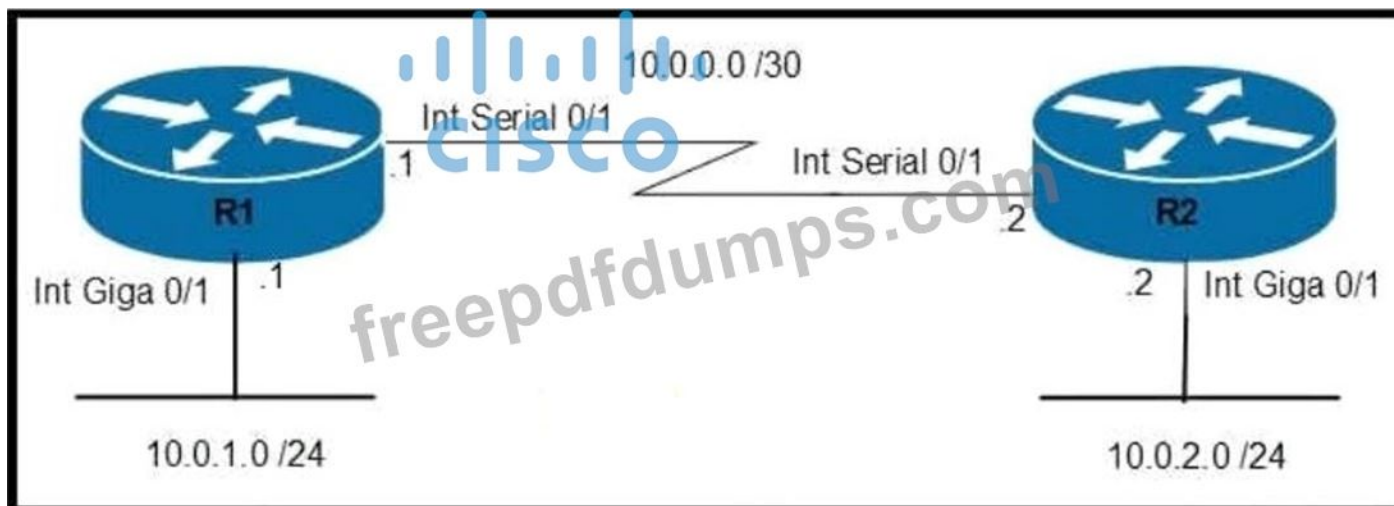
Answer:



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NEW QUESTION: 137

Refer to the exhibit.



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

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

Answer: (SHOW ANSWER)

NEW QUESTION: 138

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

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

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

NEW QUESTION: 139

Refer to the exhibit.

```
import ncclient

with ncclient.manager.connect(host='192.168.1.1', port=830, username='root',
                             password='teset123!', allow_agent=False) as m:
    print(m.get_config('running').data_xml)
```

After running the code in the exhibit, which step reduces the amount of data that the NETCONF server returns to the NETCONF client, to only the interface's configuration?

- A. Use the JSON library to parse the data returned by the NETCONF server for the interface's configuration.
- B. Use the lxml library to parse the data returned by the NETCONF server for the interface's configuration.
- C. Create a JSON filter as a string and pass it to the get_config() method as an argument.
- D. Create an XML filter as a string and pass it to get_config() method as an argument.

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

NEW QUESTION: 140

An engineer needs to configure LLDP to send the port description time length value (TLV). What command sequence must be implemented?

- A. switch(config-line)#lldp port-description
- B. switch(config)#lldp port-description
- C. switch#lldp port-description
- D. switch(config-if)#lldp port-description

Answer: (SHOW ANSWER)

NEW QUESTION: 141

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

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

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

NEW QUESTION: 142

What differentiates device management enabled by Cisco DNA Center from traditional campus device management?

- A. centralized
- B. CLI-oriented device
- C. device-by-device hands-on
- D. per-device

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

NEW QUESTION: 143

Which feature on the Cisco Wireless LAN Controller when enabled restricts management access from specific networks?

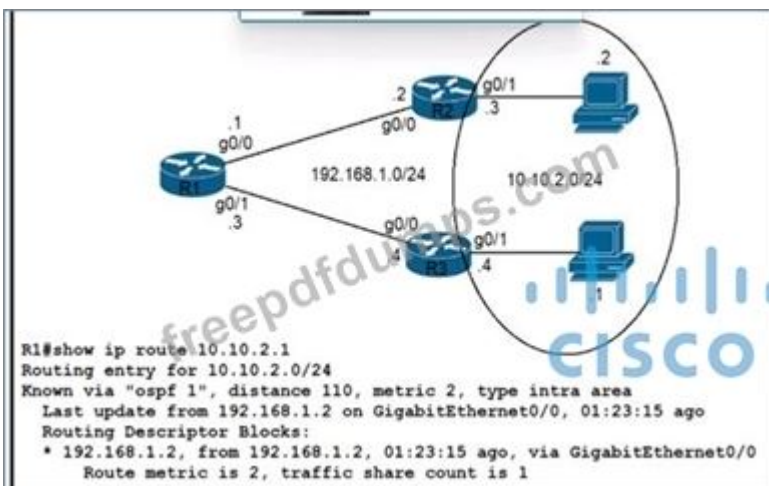
- A. Flex ACL
- B. RADIUS
- C. TACACS
- D. CPUACL

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

NEW QUESTION: 144

Refer to the exhibit.

Traffic from R1 to the 10.10.2.0/24 subnet uses 192.168.1.2 as its next hop. An network engineer wants to update the R1 configuration so that traffic with destination 10.10.2.1 passes through router R3, and all other traffic to the 10.10.20/24 subnet passes through r2. Which command must be used?



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

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

NEW QUESTION: 145

An administrator must secure the WLC from receiving spoofed association requests. Which steps must be taken to configure the WLC to restrict the requests and force the user to wait 10 ms to retry an association request?

- A. Enable the Protected Management Frame service and set the Comeback timer to 10
- B. Enable 802.1x Layer 2 security and set the Comeback timer to 10
- C. Enable MAC filtering and set the SA Query timeout to 10
- D. Enable Security Association Teardown Protection and set the SA Query timeout to 10

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 146

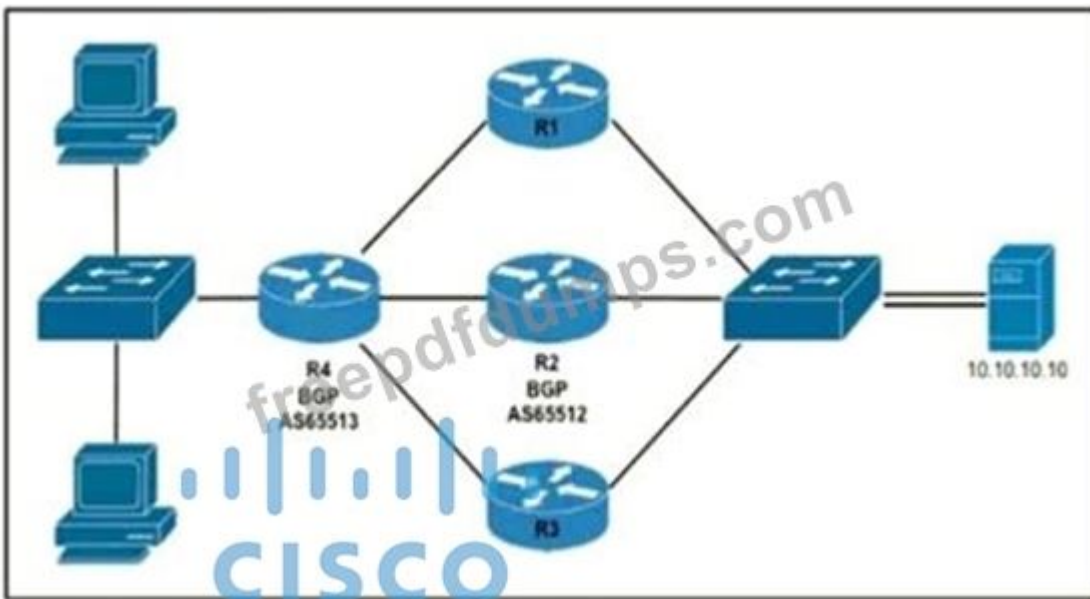
How does the dynamically-learned MAC address feature function?

- A. It requires a minimum number of secure MAC addresses to be filled dynamically
- B. The ports are restricted and learn up to a maximum of 10 dynamically-learned addresses
- C. The CAM table is empty until ingress traffic arrives at each port
- D. Switches dynamically learn MAC addresses of each connecting CAM table.

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

NEW QUESTION: 147

Refer to the exhibit.



Router R4 is dynamically learning the path to the server. If R4 is connected to R1 via OSPF Area 20, to R2 via BGP, and to R3 via EIGRP 777, which path is installed in the routing table of R4?

- A. the path through R2 because the EIGRP administrative distance is 20
- B. the path through R3. because the EIGRP administrative distance is lower than OSPF and BGP
- C. the path through R2. because the IBGP administrative distance is 200
- D. the path through R1, because the OSPF administrative distance is 110

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 148

An engineer configured an OSPF neighbor as a designated router. Which state verifies the designated router is in the proper mode?

- A. Exchange
- B. Init
- C. Full
- D. 2-way

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

NEW QUESTION: 149

Refer to the exhibit.

```
10.0.0.0/24 is subsetting, 1 subnets
C      10.0.0.0 is directly connected, FastEthernet0/1
C      172.160.0/16 is directly connected, FastEthernet0/0
D      192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0
```

Which route type does the routing protocol Code D represent in the output?

- A. /24 route of a locally configured IP
- B. route learned through EIGRP
- C. statically assigned route
- D. internal BGP route

Answer: (SHOW ANSWER)

NEW QUESTION: 150

What is a function of a remote access VPN?

- A. establishes a secure tunnel between two branch sites
- B. used cryptographic tunneling to protect the privacy of data for multiple users simultaneously
- C. allows the users to access company internal network resources through a secure tunnel
- D. used exclusively when a user is connected to a company's internal network

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

NEW QUESTION: 151

An engineer must configure a WLAN using the strongest encryption type for WPA2- PSK. Which cipher fulfills the configuration requirement?

- A. WEP
- B. RC4
- C. AES
- D. TKIP

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

Many routers provide WPA2-PSK (TKIP), WPA2-PSK (AES), and WPA2-PSK (TKIP/AES) as options. TKIP is actually an older encryption protocol introduced with WPA to replace the very-

insecure WEP encryption at the time. TKIP is actually quite similar to WEP encryption. TKIP is no longer considered secure, and is now deprecated. In other words, you shouldn't be using it. AES is a more secure encryption protocol introduced with WPA2 and it is currently the strongest encryption type for WPA2-PSK.

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NEW QUESTION: 152

Which attribute does a router use to select the best path when two or more different routes to the same destination exist from two different routing protocols.

- A. dual algorithm
- B. metric
- C. administrative distance
- D. hop count

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

Administrative distance is the feature used by routers to select the best path when there are two or more different routes to the same destination from different routing protocols. Administrative distance defines the reliability of a routing protocol.

NEW QUESTION: 153

What is a benefit of VRRP?

- A. It allows neighbors to share routing table information between each other.
- B. It prevents loops in a Layer 2 LAN by forwarding all traffic to a root bridge, which then makes the final forwarding decision.
- C. It provides traffic load balancing to destinations that are more than two hops from the source.
- D. It provides the default gateway redundancy on a LAN using two or more routers.

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

NEW QUESTION: 154

An organization has decided to start using cloud-provided services. Which cloud service allows the organization to install its own operating system on a virtual machine?

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

D. infrastructure-as-a-service

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

Below are the 3 cloud supporting services cloud providers provide to customer:

+ SaaS (Software as a Service): SaaS uses the web to deliver applications that are managed by a thirdparty vendor and whose interface is accessed on the clients' side. Most SaaS applications can be run directly from a web browser without any downloads or installations required, although some require plugins.

+ PaaS (Platform as a Service): are used for applications, and other development, while providing cloud components to software. What developers gain with PaaS is a framework they can build upon to develop or customize applications. PaaS makes the development, testing, and deployment of applications quick, simple, and cost-effective. With this technology, enterprise operations, or a thirdparty provider, can manage Oses, virtualization, servers, storage, networking, and the PaaS software itself. Developers, however, manage the applications.

+ IaaS (Infrastructure as a Service): self-service models for accessing, monitoring, and managing remote datacenter infrastructures, such as compute (virtualized or bare metal), storage, networking, and networking services (e.g. firewalls). Instead of having to purchase hardware outright, users can purchase IaaS based on consumption, similar to electricity or other utility billing.

In general, IaaS provides hardware so that an organization can install their own operating system.

NEW QUESTION: 155

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

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

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

NEW QUESTION: 156

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

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

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

NEW QUESTION: 157

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 subnet mask of the route to the 10.10.13.160 prefix?

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

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

NEW QUESTION: 158

What are two benefits of controller-based networking compared to traditional networking?

- A. controller-based increases network bandwidth usage, while traditional lightens the load on the network.
- B. controller-based inflates software costs, while traditional decreases individual licensing costs
- C. Controller-based reduces network configuration complexity, while traditional increases the potential for errors
- D. Controller-based provides centralization of key IT functions. While traditional requires distributes management function
- E. controller-based allows for fewer network failure, while traditional increases failure rates.

Answer: (SHOW ANSWER)

Cisco DNA Center Device Management

3. Monitor the cloud for software update

5. Uses CLI templates to apply a consistent configuration to multiple devices at an individual location

- 6. Uses NetFlow to analyse potential security threats throughout the network and take appropriate action on that traffic Traditional device management
 - 2. Manages device configuration on a per-device basis
 - 4. Security is managed near the perimeter of the network with firewalls, VPNs, and IPS
- Implements changes via an SSH terminal

NEW QUESTION: 159

Which spanning-tree enhancement avoids the learning and listening states and immediately places ports in the forwarding state?

- A. BPDUfilter
- B. PortFast
- C. Backbonefast
- D. BPDUguard

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

PortFast

Spanning Tree Portfast causes layer 2 switch interfaces to enter forwarding state immediately, bypassing the listening and learning states. It should be used on ports connected directly to end hosts like servers or workstations. Note: If portfast isn't enabled, DHCP timeouts can occur while STP converges, causing more problems.

<https://skminhaj.wordpress.com/2015/03/04/spanning-tree-stp-rstp-mst-enhancements/>

NEW QUESTION: 160

A Cisco engineer is configuring a factory-default router with these three passwords:

- * The user EXEC password for console access is p4ssw0rd1
 - * The user EXEC password for Telnet access is s3cr3t2
 - * The password for privileged EXEC mode is pnv4t3p4ss
- Which command sequence must the engineer configure A)

```
enable secret pnv4t3p4ss
!
line con 0
password login p4ssw0rd1
!
line vty 0 15
password login s3cr3t2
login
```

B)

```
enable secret privilege 15 priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

C)

```
enable secret priv4t3p4ss
!
line con 0
password p4ssw0rd1
login
!
line vty 0 15
password s3cr3t2
login
```

D)

```
enable secret priv4t3p4ss
!
line con 0
```

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

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

NEW QUESTION: 161

Which state does the switch port move to when PortFast is enabled?

- A. listening
- B. forwarding
- C. learning
- D. blocking

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

NEW QUESTION: 162

Which design element is a best practice when deploying an 802.11b wireless infrastructure?

- A. allocating nonoverlapping channels to access points that are in close physical proximity to one another
- B. configuring access points to provide clients with a maximum of 5 Mbps
- C. setting the maximum data rate to 54 Mbps on the Cisco Wireless LAN Controller
- D. disabling TPC so that access points can negotiate signal levels with their attached wireless devices.

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

NEW QUESTION: 163

Which 802.11 frame type is indicated by a probe response after a client sends a probe request?

- A. data
- B. control
- C. action
- D. management

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

NEW QUESTION: 164

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 165

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

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

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

NEW QUESTION: 166

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

- A. to route traffic differently based on the source IP of the packet
- 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 control the return path of traffic that is sent from the router
- E. to support load balancing via static routing

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

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NEW QUESTION: 167

Refer to the exhibit.

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

What is represented by "R1" and "SW1" within the JSON output?

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

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

NEW QUESTION: 168

What are network endpoints?

- A. enforce policies for campus-wide traffic going to the internet
- B. support inter-VLAN connectivity
- C. a threat to the network if they are compromised
- D. act as routers to connect a user to the service provider network

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

NEW QUESTION: 169

Refer to the exhibit.

```

Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
        B - BGP, R - RIP, H - NHRP, I1 - ISIS L1
        I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP
        EX - EIGRP external, ND - ND Default, NDp - ND Prefix, DCE - Destination
        NDr - Redirect, O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1
        OE2 - OSPF ext 2, ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        la - LISP alt, lr - LISP site-registrations, ld - LISP dyn-eid
        lA - LISP away, le - LISP extranet-policy, lp - LISP publications

ND  ::/0 [2/0]
    via FE80::A8BB:CCFF:FE00:200, Ethernet0/0
NDp 2001:DB8:1234:1::/64 [2/0]
    via Ethernet0/0, directly connected
L   2001:DB8:1234:1:A8BB:CCFF:FE00:100/128 [0/0]
    via Ethernet0/0, receive
C   2001:DB8:1234:2::/64 [0/0]
    via Ethernet0/1, directly connected
L   2001:DB8:1234:2:A8BB:CCFF:FE00:110/128 [0/0]
    via Ethernet0/1, receive
L   FF00::/8 [0/0]
    via Null0, receive

```

The administrator must configure a floating static default route that points to 2001:db8:1234:2::1 and replaces the current default route only if it fails. Which command must the engineer configure on the CPE?

- A. `ipv6 route ::/0 2001:db8:1234:2::1 2`
- B. `ipv6 route ::/0 2001:db8:1234:2::1 3`
- C. `ipv6 route ::/128 2001:db8:1234:2::1 3`
- D. `ipv6 route ::/0 2001:db8:1234:2::1 1`

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 170

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

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: 171

What is a function of Opportunistic Wireless Encryption in an environment?

- A. offer compression
- B. increase security by using a WEP connection

- C. provide authentication
- D. protect traffic on open networks

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

NEW QUESTION: 172

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

Configure BPDU guard.	802.1q double tagging
Configure dynamic ARP inspection.	ARP spoofing
Configure root guard.	unwanted superior BPDUs
Configure VACL.	unwanted BPDUs on PortFast-enabled interfaces

Answer:

Configure BPDU guard.	Configure VACL.
Configure dynamic ARP inspection.	Configure dynamic ARP inspection.
Configure root guard.	Configure root guard.
Configure VACL.	Configure BPDU guard.

NEW QUESTION: 173

What is an expected outcome when network management automation is deployed?

- A. A distributed management plane must be used.
- B. Software upgrades are performed from a central controller
- C. Complexity increases when new device configurations are added
- D. Custom applications are needed to configure network devices

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

NEW QUESTION: 174

in Which way does a spine and-leaf architecture allow for scalability in a network when additional access ports are required?

- A. A spine switch and a leaf switch can be added with redundant connections between them

- B. A spine switch can be added with at least 40 GB uplinks
- C. A leaf switch can be added with a single connection to a core spine switch.
- D. A leaf switch can be added with connections to every spine switch

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

Spine-leaf architecture is typically deployed as two layers: spines (such as an aggregation layer), and leaves (such as an access layer). Spine-leaf topologies provide high-bandwidth, low-latency, nonblocking server-to-server connectivity.

Leaf (aggregation) switches are what provide devices access to the fabric (the network of spine and leaf switches) and are typically deployed at the top of the rack. Generally, devices connect to the leaf switches.

Devices can include servers, Layer 4-7 services (firewalls and load balancers), and WAN or Internet routers. Leaf switches do not connect to other leaf switches. In spine-and-leaf architecture, every leaf should connect to every spine in a full mesh.

Spine (aggregation) switches are used to connect to all leaf switches and are typically deployed at the end or middle of the row. Spine switches do not connect to other spine switches.

NEW QUESTION: 175

What criteria is used first during the root port selection process?

- A. local port ID
- B. lowest neighbor's port ID
- C. lowest path cost to the root bridge
- D. lowest neighbor's bridge ID

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

NEW QUESTION: 176

What is a role of access points in an enterprise network?

- A. serve as a first line of defense in an enterprise network
- B. connect wireless devices to a wired network
- C. support secure user logins to devices or the network
- D. integrate with SNMP in preventing DDoS attacks

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

NEW QUESTION: 177

An engineer is tasked to configure a switch with port security to ensure devices that forward unicasts, multicasts, and broadcasts are unable to flood the port. The port must be configured to permit only two random MAC addresses at a time. Drag and drop the required configuration commands from the left onto the sequence on the right. Not all commands are used.

switchport mode access

switchport port-security

switchport port-security mac-address 0060.3EDD.77AB

switchport port-security mac-address 00D0.D3ED.622A

switchport port-security mac-address sticky

switchport port-security maximum 2

switchport port-security violation shutdown

1

2

3

4

Answer:

switchport mode access

switchport port-security

switchport port-security mac-address 0060.3EDD.77AB

switchport port-security mac-address 00D0.D3ED.622A

switchport port-security mac-address sticky

switchport port-security maximum 2

switchport port-security violation shutdown

switchport port-security

switchport port-security mac-address sticky

switchport port-security maximum 2

switchport port-security violation shutdown

NEW QUESTION: 178

Refer to the exhibit.



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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 179

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 180

Which two values or settings must be entered when configuring a new WLAN in the Cisco Wireless LAN Controller GUI? (Choose two)

- A. management interface settings
- B. QoS settings
- C. Ip address of one or more access points
- D. Profile name
- E. SSID

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 181

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

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

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

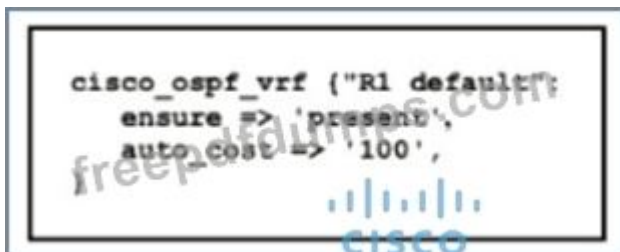
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NEW QUESTION: 182

Refer to the exhibit.



Which type of configuration is represented in the output?

- A. Puppet
- B. JSON
- C. Chef
- D. Ansible

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

NEW QUESTION: 183

Which type of security program is violated when a group of employees enters a building using the ID badge of only one person?

- A. intrusion detection
- B. physical access control
- C. user awareness
- D. network authorization

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 184

Which networking function occurs on the data plane?

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

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

NEW QUESTION: 185

When a WLAN with WPA2 PSK is configured in the Wireless LAN Controller GUI which format is supported?

- A. Unicode
- B. base64
- C. decimal
- D. ASCII

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

NEW QUESTION: 186

What is the benefit of configuring PortFast on an interface?

- A. The frames entering the interface are marked with higher priority and then processed faster by a switch.
- B. After the cable is connected, the interface is available faster to send and receive user data
- C. Real-time voice and video frames entering the interface are processed faster
- D. After the cable is connected, the interface uses the fastest speed setting available for that cable type

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

NEW QUESTION: 187

How does authentication differ from authorization?

- A. Authentication is used to determine what resources a user is allowed to access, and authorization is used to track what equipment is allowed access to the network
- B. Authentication is used to record what resource a user accesses, and authorization is used to determine what resources a user can access
- C. Authentication is used to verify a person's identity, and authorization is used to create syslog messages for logins.
- D. Authentication verifies the identity of a person accessing a network, and authorization determines what resource a user can access.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 188

Refer to the exhibit.

```
ip arp inspection vlan 5-10
interface fastethernet 0/1
switchport mode access
switchport access vlan 5
```

What is the effect of this configuration?

- A. All ARP packets are dropped by the switch
- B. The switch discards all ingress ARP traffic with invalid MAC-to-IP address bindings.
- C. Egress traffic is passed only if the destination is a DHCP server.
- D. All ingress and egress traffic is dropped because the interface is untrusted

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

NEW QUESTION: 189

Refer to the exhibit.

Guidelines

Topology

Tasks

Network topology diagram showing three routers (R1, R2, R3) connected in a triangle. R1 is connected to R2 via E0/0 (10.1.2.1) and E0/0 (10.1.2.2). R1 is connected to R3 via E0/2 (10.1.3.1) and E0/2 (10.1.3.11). R2 is connected to R3 via E0/1 (10.2.3.2) and E0/1 (10.2.3.3). Loopback addresses are: R1 Lo1: 192.168.1.1, R2 Lo1: 192.168.2.1, R3 Lo1: 192.168.3.1.

Guidelines

Topology

Tasks

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the **Tasks** tab to view the tasks for this lab item.
- Refer to the **Topology** tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- **Save your configurations** to NVRAM before moving to the next item.
- Click **Next** at the bottom of the screen to submit this lab and move to the next question.
- When **Next** is clicked, the lab closes and cannot be reopened.

R1

R2

R3

R1#

Connectivity between three routers has been established, and IP services must be configured in the order presented to complete the implementation. Tasks assigned include configuration of NAT, NTP, DHCP, and SSH services.

1. All traffic sent from R3 to the R1 Loopback address must be configured for NAT on R2. All source addresses must be translated from R3 to the IP address of Ethernet0/0 on R2, while using only a standard access list named NAT. To verify, a ping must be successful to the R1 Loopback address sourced from R3. Do not use NVI NAT configuration.
2. Configure R1 as an NTP server and R2 as a client, not as a peer, using the IP address of the R1 Ethernet0/2 interface. Set the clock on the NTP server for midnight on January 1, 2019.
3. Configure R1 as a DHCP server for the network 10.1.3.0/24 in a pool named TEST. Using a single command, exclude addresses 1-10 from the range. Interface Ethernet0/2 on R3 must be issued the IP address of 10.1.3.11 via DHCP.
4. Configure SSH connectivity from R1 to R3, while excluding access via other remote connection protocols. Access for user root and password Cisco must be set on router R3 using RSA and 1024 bits. Verify connectivity using an SSH session from router R1 using a destination address of 10.1.3.11. Do NOT modify console access or line numbers to accomplish this task.

Answer:

Answer as below configuration:

```
conf t
```

```
R1(config)#ntp master 1
```

```
R2(config)#ntp server 10.1.2.1
```

```
Exit
```

```
Router#clock set 00:00:00 jan 1 2019
```

```
ip dhcp pool TEST
```

```
network 10.1.3.0 255.255.255.0
```

```
ip dhcp excluded-address 10.1.3.1 10.1.3.10
```

```
R3(config)#int e0/3
```

```
R3(config)#int e0/2
```

```
ip address dhcp
```

```
no shut
```

```
crypto key generate RSA
```

```
1024
```

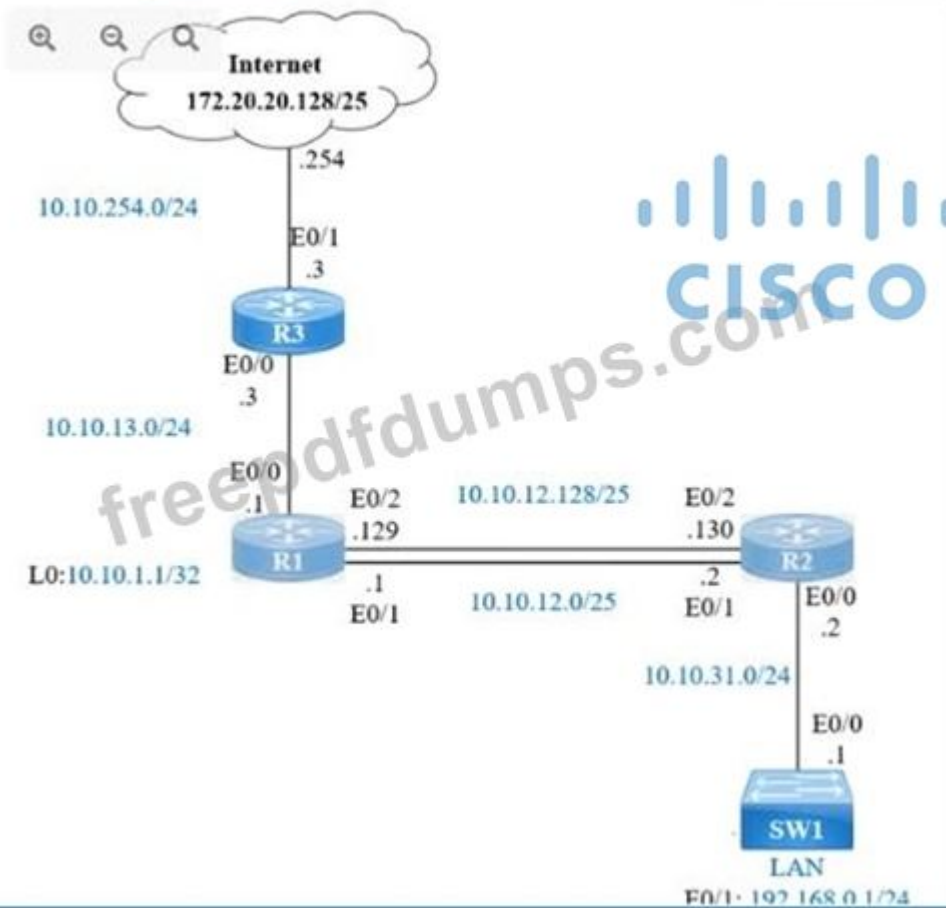
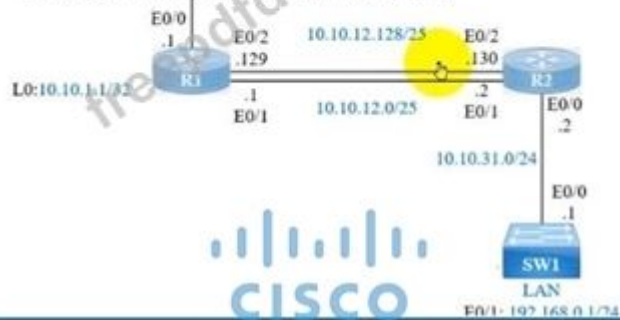
```
Copy run start
```

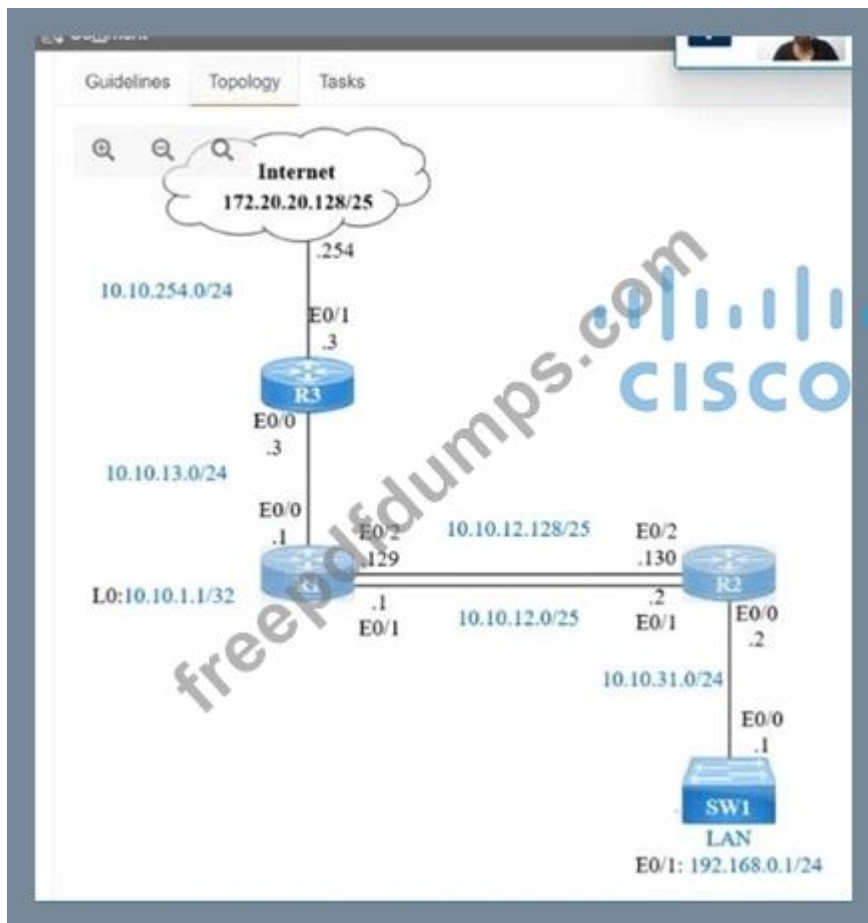
Question: 01 8 SIMULATION

Guidelines

This is a lab item in which tasks will be performed on virtual devices.

- Refer to the **Tasks** tab to view the tasks for this lab item.
- Refer to the **Topology** tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- **Save your configurations** to NVRAM before moving to the next item.
- Click **Next** at the bottom of the screen to submit this lab and move to the next question.
- When **Next** is clicked, the lab closes and cannot be reopened.





IP connectivity and OSPF are preconfigured on all devices where necessary. Do not make any changes to the IP addressing or OSPF. The company policy uses connected interfaces and next hops when configuring static routes except for load balancing or redundancy without floating static. Connectivity must be established between subnet 172.20.20.128/25 on the Internet and the LAN at 192.168.0.0/24 connected to SW1:

1. Configure reachability to the switch SW1 LAN subnet in router R2.
2. Configure default reachability to the Internet subnet in router R1.
3. Configure a single static route in router R2 to reach to the Internet subnet considering both redundant links between routers R1 and R2. A default route is NOT allowed in router R2.
4. Configure a static route in router R1 toward the switch SW1 LAN subnet where the primary link must be through Ethernet0/1. and the backup link must be through Ethernet0/2 using a floating route. Use the minimal administrative distance value when required.

Answer as below configuration:

On R2:

Enable

Conf t

Ip route 192.168.1.0 255.255.255.0 10.10.31.1

On R1:

Enable

Conf t

Ip route 0.0.0.0 0.0.0.0 10.10.13.3

On R2

Ip route 172.20.20.128 255.255.255.128 e0/2

Ip route 172.20.20.128 255.255.255.128 e0/1

On R1

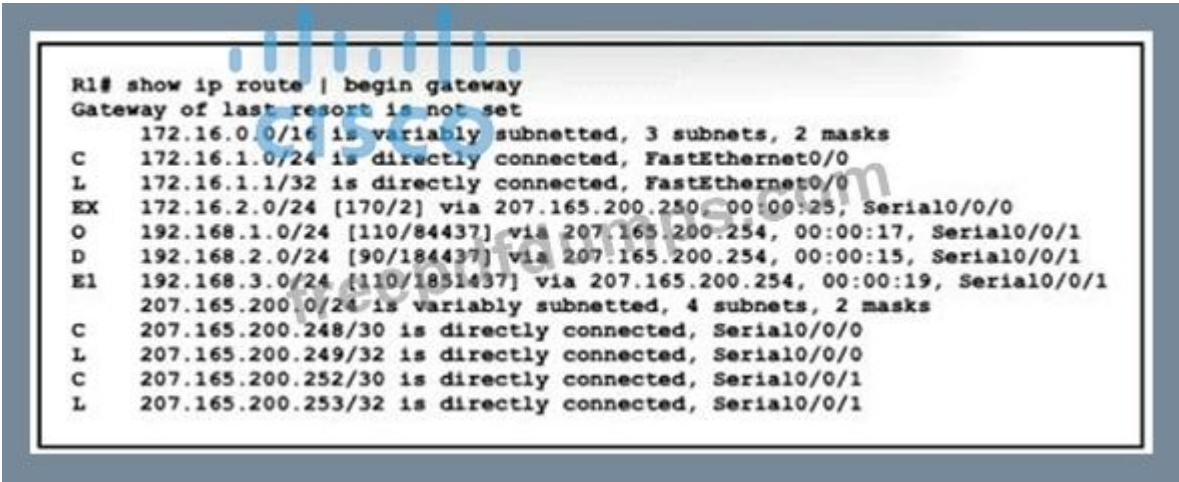
Ip route 192.168.0.0 255.255.255.0 e0/1

Ip route 192.168.0.0 255.255.255.0 10.10.12.2 3

Save all configurations after every router from anyone of these command Do wr Or Copy run start

NEW QUESTION: 190

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 [110/1831437] 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. 192.168.10/24
- B. 192.168.2.0/24
- C. 172.16.1.0/24
- D. 192.168.3.0/24

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

NEW QUESTION: 191

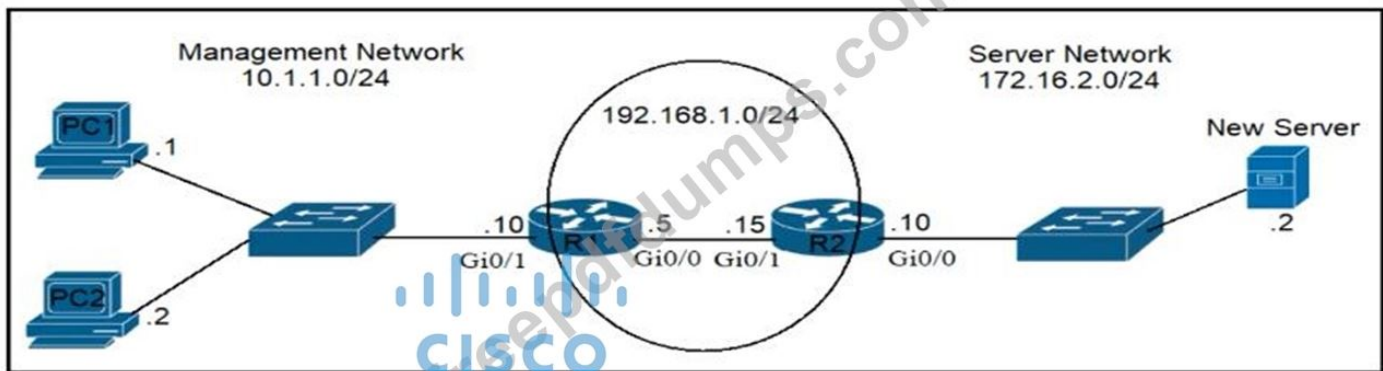
What criteria is used first during the root port selection process?

- A. local port ID
- B. lowest neighbor's bridge ID
- C. lowest neighbor's port ID
- D. lowest path cost to the root bridge

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

NEW QUESTION: 192

Refer to the exhibit.



An engineer is updating the R1 configuration to connect a new server to the management network. The PCs on the management network must be blocked from pinging the default gateway of the new server. Which command must be configured on R1 to complete the task?

- A. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.5
- B. R1(config)#ip route 172.16.2.2 255.255.255.255 gi0/0
- C. R1(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.15
- D. R1(config)#ip route 172.16.2.2 255.255.255.248 gi0/1

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

NEW QUESTION: 193

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 desirable
switchport access vlan 20
switchport trunk allowed vlan 30
switchport voice vlan 30
```

B)

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

C)

```
switchport mode access
switchport access vlan 20
switchport voice vlan 30
```

D)

```
switchport mode trunk
switchport access vlan 20
switchport voice vlan 30
```

A. Option D

B. Option A

C. Option C

D. Option B

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 194

An engineer observes high usage on the 2.4GHz channels and lower usage on the 5GHz channels. What must be configured to allow clients to preferentially use 5GHz access points?

A. 11ac MU-MIMO

B. Client Band Select

C. OEAP Split Tunnel

D. Re- Anchor Roamed Clients

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

NEW QUESTION: 195

What is the benefit of using FHRP?

A. reduced ARP traffic on the network

B. reduced management overhead on network routers

C. balancing traffic across multiple gateways in proportion to their loads

D. higher degree of availability

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

NEW QUESTION: 196

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: ([SHOW ANSWER](#))

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.

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NEW QUESTION: 197

While examining excessive traffic on the network, it is noted that all incoming packets on an interface appear to be allowed even though an IPv4 ACL is applied to the interface.

Which two misconfigurations cause this behavior? (Choose two)

- A. A matching deny statement is too high in the access list
- B. The packets fail to match any permit statement
- C. A matching permit statement is too high in the access test
- D. A matching permit statement is too broadly defined
- E. The ACL is empty

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

NEW QUESTION: 198

A user configured OSPF and advertised the Gigabit Ethernet interface in OSPF. By default, which type of OSPF network does this interface belong to?

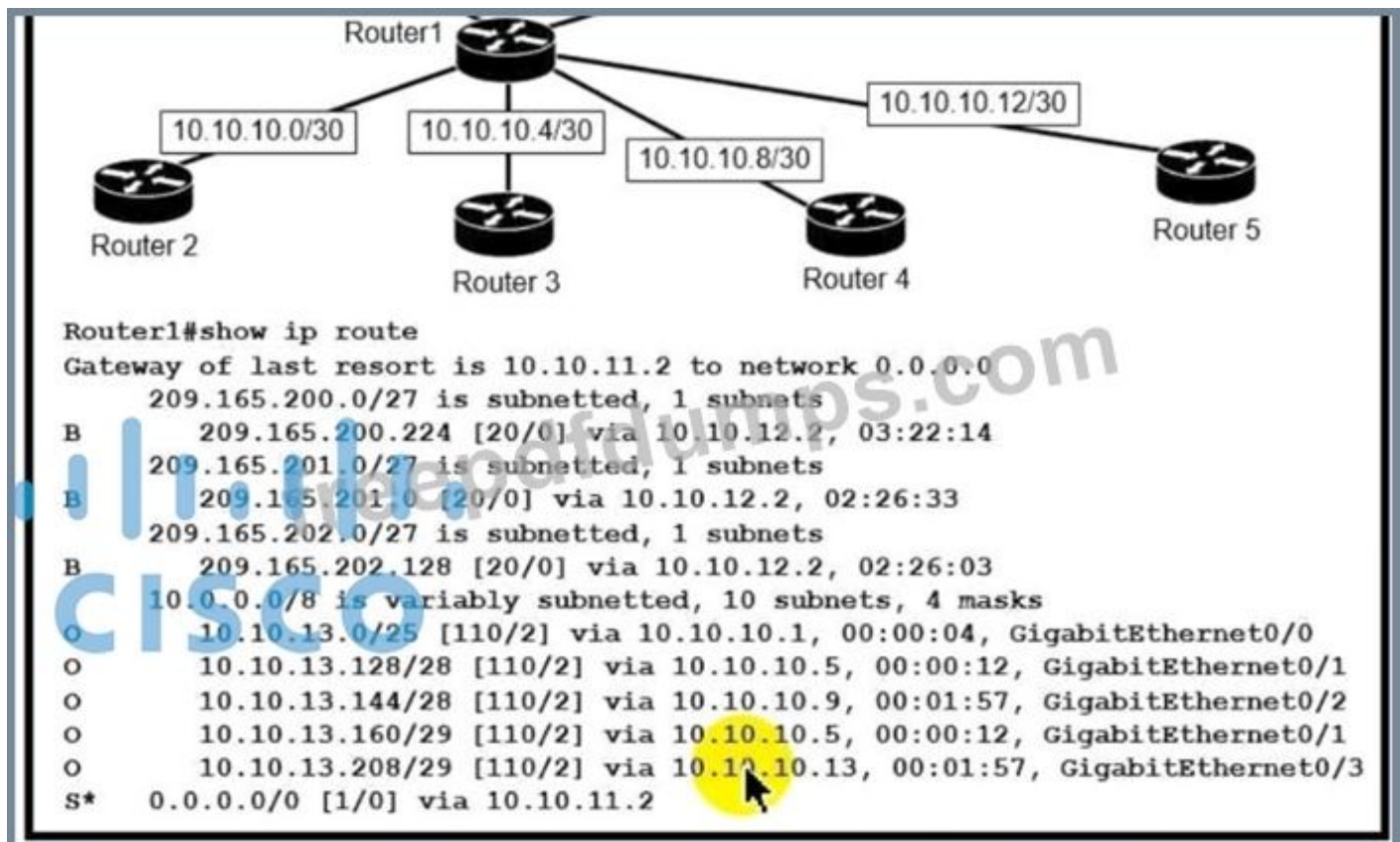
- A. point-to-multipoint
- B. point-to-point
- C. broadcast
- D. nonbroadcast

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

<https://www.oreilly.com/library/view/cisco-ios-cookbook/0596527225/ch08s15.html> The Broadcast network type is the default for an OSPF enabled ethernet interface (while Point-toPoint is the default OSPF network type for Serial interface with HDLC and PPP encapsulation).

NEW QUESTION: 199

Refer to the exhibit.



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

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

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

NEW QUESTION: 200

Drag and drop the lightweight access point operation modes from the left onto the descriptions on the right

bridge mode	allows the access point to communicate with the WLC over a WAN link
local mode	allows for packet captures of wireless traffic
monitor mode	rogue detector mode
Flexconnect mode	preferred for connecting access points in a mesh environment
	receive only mode which acts as a dedicated sensor for RFID and IDS
sniffer mode	transmits normally on one channel and monitors other channels for noise and interference

Answer:



NEW QUESTION: 201

Refer to the exhibit.

```

R1#show ip interface brief

```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet1/0	192.168.0.1	YES	NVRAM	up	up
GigabitEthernet2/0	10.10.1.10	YES	manual	up	up
GigabitEthernet3/0	10.10.10.20	YES	manual	up	up
GigabitEthernet4/0	unassigned	YES	NVRAM	administratively down	down
Loopback0	172.16.15.10	YES	manual		

What does router R1 use as its OSPF router-ID?

- A. 10.10.1.10
- B. 10.10.10.20
- C. 172.16.15.10
- D. 192.168.0.1

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

OSPF uses the following criteria to select the router ID: 1. Manual configuration of the router ID (via the "router-id x.x.x.x" command under OSPF router configuration mode). 2. Highest IP address on a loopback interface. 3. Highest IP address on a non-loopback and active (no shutdown) interface.

NEW QUESTION: 202

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 floods the frame to all interfaces except Fa0/1.
- B. It forwards the frame back out of interface Fa0/1.
- C. It holds the frame until the MAC address timer expires and then drops the frame.

D. It drops the frame immediately.

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

NEW QUESTION: 203

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. 5GHz provides increased network capacity with up to 23 nonoverlapping channels.
- C. Cells that overlap one another are configured to use nonoverlapping channels.
- D. For maximum throughput, the WLC is configured to dynamically set adjacent access points to the same channel.
- E. 5GHz channel selection requires an autonomous access point.

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

NEW QUESTION: 204

Which network plane is centralized and manages routing decisions?

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

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

NEW QUESTION: 205

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 dynamic MAC address learning
- B. implement auto MAC address learning
- C. enable sticky MAC addressing
- D. implement static MAC addressing.

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

NEW QUESTION: 206

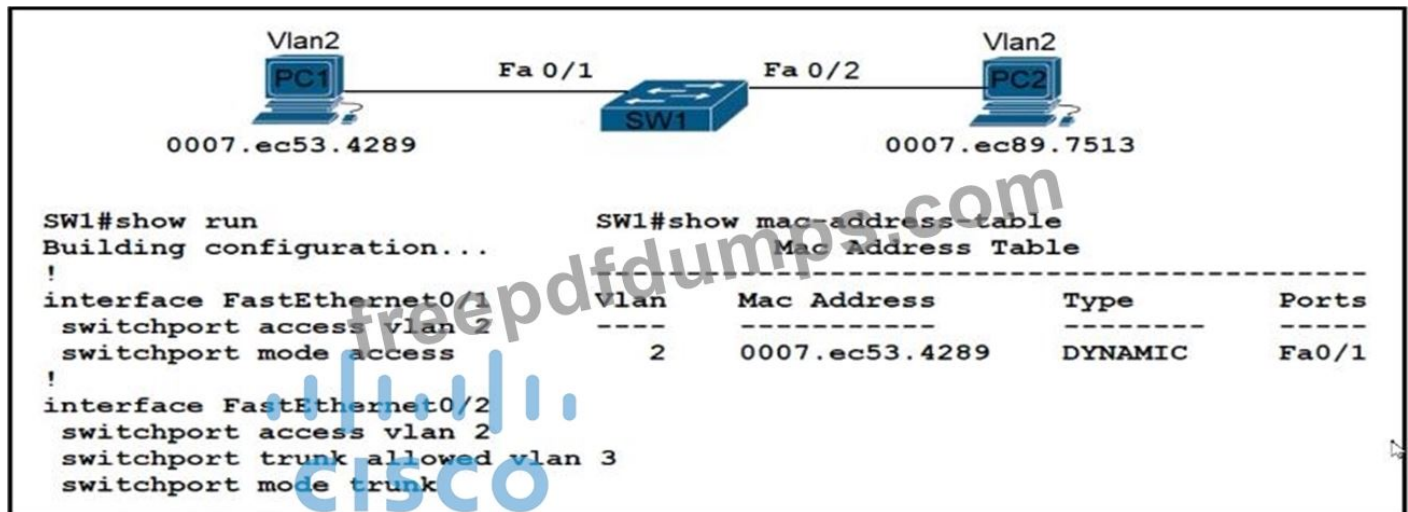
What are two benefits of FHRPs? (Choose two.)

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

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

NEW QUESTION: 207

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 C

B. Option D

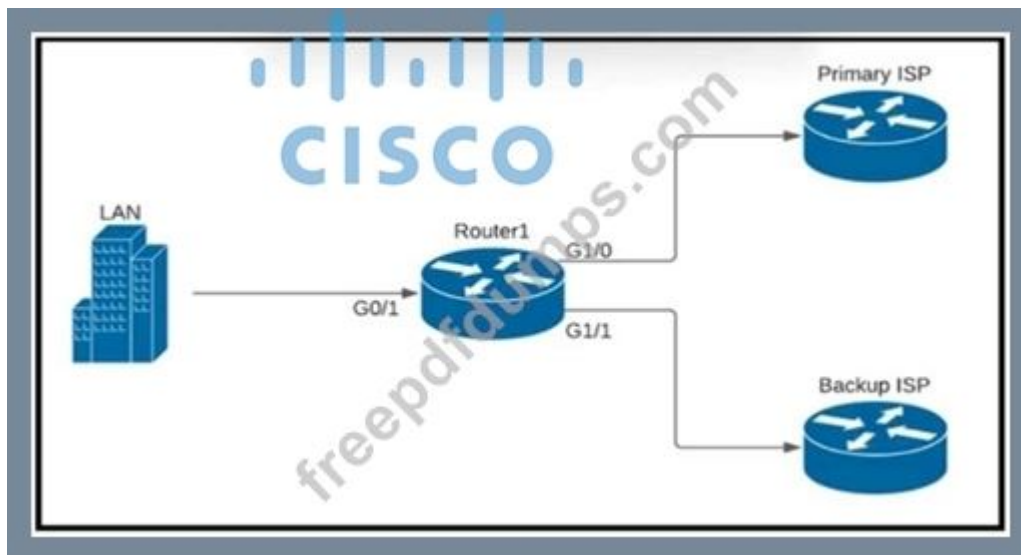
C. Option A

D. Option B

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

NEW QUESTION: 208

Refer to the exhibit.



A company is configuring a failover plan and must implement the default routes in such a way that a floating static route will assume traffic forwarding when the primary link goes down. Which primary route configuration must be used?

- A. `ip route 0.0.0.0 0.0.0.0 192.168.0.2 GigabitEthernet1/0`
- B. `ip route 0.0.0.0 0.0.0.0 192.168.0.2 floating`
- C. `ip route 0.0.0.0 0.0.0.0 192.168.0.2`
- D. `ip route 0.0.0.0 0.0.0.0 192.168.0.2 tracked`

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

NEW QUESTION: 209

Which characteristic differentiates the concept of authentication from authorization and accounting?

- A. consumption-based billing
- B. identity verification
- C. service limitations
- D. user-activity logging

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

NEW QUESTION: 210

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 ffc0:0000:aaaa::1234:2343/64`
- B. `interface vlan 2000`
`ipv6 address fd00::1234:2343/64`
- C. `interface vlan 2000`
`lpx6 address fc00:0000:aaaa:a15d:1234:2343:8aca/64`
- D. `interface vlan 2000`

ipv6 address fe80:0000:aaaa::1234:2343/64

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

NEW QUESTION: 211

An engineer configures interface Gi1/0 on the company PE router to connect to an ISP Neighbor discovery is disabled

```
interface Gi1/0
description HQ_DC3978-87297
duplex full
speed 100
negotiation auto
lldp transmit
lldp receive
```



Which action is necessary to complete the configuration if the ISP uses third-party network devices?

- A. Enable LLDP globally
- B. Disable autonegotiation
- C. Enable LLDP-MED on the ISP device
- D. Disable Cisco Discovery Protocol on the interface

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 212

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

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

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

NEW QUESTION: 213

Drag and drop the TCP or UDP details from the left onto their corresponding protocols on the right.

transmitted based on data contained in the packet without the need for a data channel

provides best-effort service

requires the client and the server to establish a connection before sending the packet

supports reliable data transmission

TCP

UDP

Answer:

transmitted based on data contained in the packet without the need for a data channel

provides best-effort service

requires the client and the server to establish a connection before sending the packet

supports reliable data transmission

TCP

requires the client and the server to establish a connection before sending the packet

supports reliable data transmission

UDP

transmitted based on data contained in the packet without the need for a data channel

provides best-effort service

NEW QUESTION: 214

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: 215

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.

NEW QUESTION: 216

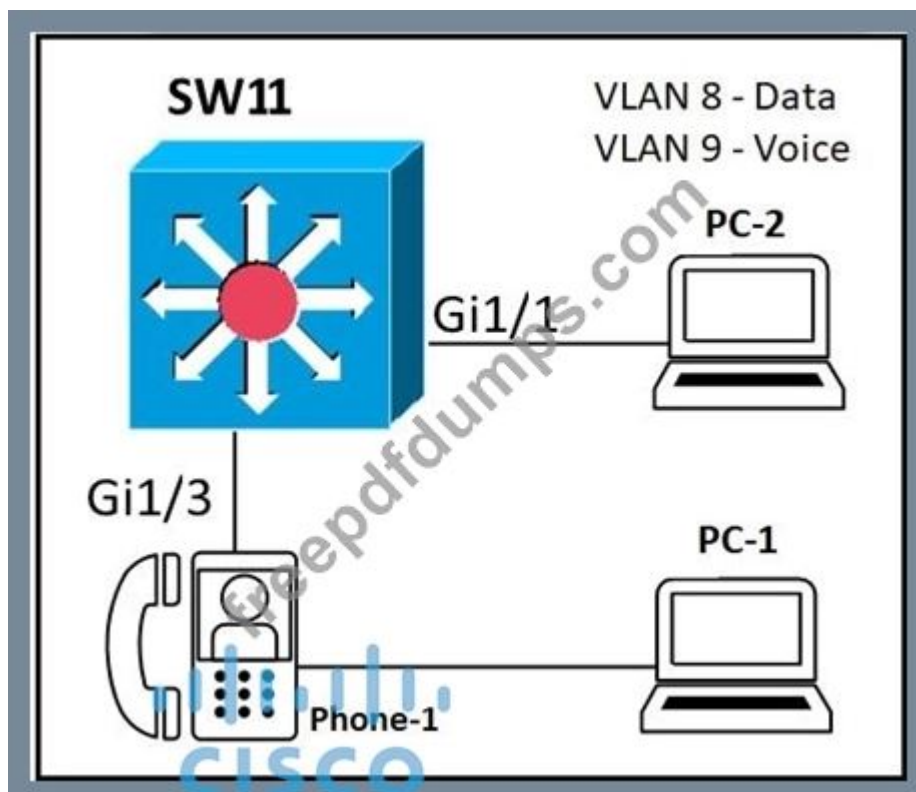
What is the difference between IPv6 unicast and anycast addressing?

- A. Unlike an IPv6 anycast address, an IPv6 unicast address is assigned to a group of interfaces on multiple nodes
- B. IPv6 anycast nodes must be explicitly configured to recognize the anycast address, but IPv6 unicast nodes require no special configuration
- C. An individual IPv6 unicast address is supported on a single interface on one node but an IPv6 anycast address is assigned to a group of interfaces on multiple nodes.
- D. IPv6 unicast nodes must be explicitly configured to recognize the unicast address, but IPv6 anycast nodes require no special configuration

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

NEW QUESTION: 217

Refer to the exhibit.



An administrator must configure interfaces Gi1/1 and Gi1/3 on switch SW11. PC-1 and PC-2 must be placed in the Data VLAN and Phone-1 must be placed in the Voice VLAN. Which configuration meets these requirements?

☐ interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode access
switchport voice vlan 8
switchport access vlan 9

☐ interface gigabitethernet1/1
switchport mode access
switchport access vlan 9
!
interface gigabitethernet1/3
switchport mode trunk
switchport trunk vlan 8
switchport trunk vlan 9

☐ interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode access
switchport access vlan 8
switchport voice vlan 9

☐ interface gigabitethernet1/1
switchport mode access
switchport access vlan 8
!
interface gigabitethernet1/3
switchport mode trunk
switchport trunk vlan 8
switchport voice vlan 9

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

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

NEW QUESTION: 218

When configuring IPv6 on an interface, which two IPv6 multicast groups are joined? (Choose two)

- A. 2000::/3
- B. 2002::5
- C. FC00::/7
- D. FF02::1
- E. FF02::2

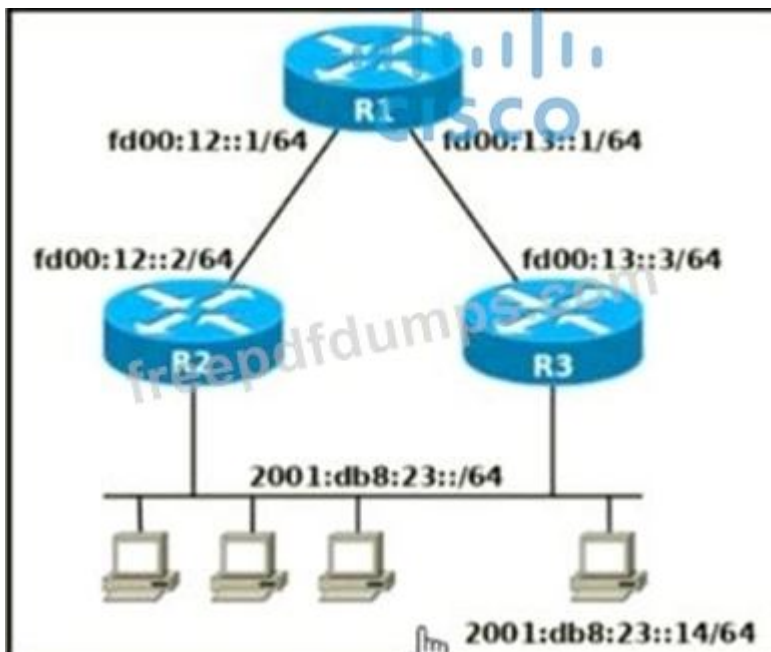
Answer: D,E ([LEAVE A REPLY](#))

Reference:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6/configuration/xe-3s/ipv6-xe-36s-book/ipv6-multicast.html> When an interface is configured with IPv6 address, it automatically joins the all nodes (FF02::1) and solicited-node (FF02::1:FFxx:xxxx) multicast groups. The all-node group is used to communicate with all interfaces on the local link, and the solicited-nodes multicast group is required for link-layer address resolution. Routers also join a third multicast group, the all-routers group (FF02::2).

NEW QUESTION: 219

Refer to the exhibit.



Which two commands, when configured on router R1, fulfill these requirements? (Choose two.)

Packets towards the entire network 2001:db8:23::/64 must be forwarded through router R2.

Packets toward host 2001:db8:23::14 preferably must be forwarded through R3.

- A. `ipv6 route 2001:db8:23::14/64 fd00:12::2 200`
- B. `ipv6 route 2001:db8:23::/64 fd00:12::2`
- C. `ipv6 route 2001:db8:23::/128 fd00:12::2`
- D. `ipv6 route 2001:db8:23::14/64 fd00:12::2`
- E. `ipv6 route 2001:db8:23::14/128 fd00:13::3`

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

NEW QUESTION: 220

Refer to the exhibit.

<u>Current Neighbor Relationship</u>					
Neighbor ID	Pri	State	Dead Time	Address	Interface
192.168.1.1	1	FULL/DR	00:00:33	192.168.1.1	GigabitEthernet0/0
<u>Desired Neighbor Relationship</u>					
Neighbor ID	Pri	State	Dead Time	Address	Interface
192.168.1.1	0	FULL/ -	00:00:31	192.168.1.1	GigabitEthernet0/0

How must OSPF be configured on the GigabitEthernet0/0 interface of the neighbor device to achieve.

A)

```
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf priority 1
```

B)

```
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf 1 area 2
```

C)

```
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf cost 5
```

D)

```
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip ospf network point-to-point
```

A. Option D

B. Option C

C. Option A

D. Option B

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

NEW QUESTION: 221

An engineer must configure R1 for a new user account. The account must meet these requirements:

* It must be configured in the local database.

* The username is engineer.

* It must use the strongest password configurable. Which command must the engineer configure on the router?

A. R1 (config)# username engineer2 algorithm-type scrypt secret test2021

B. R1(config)# username englneer2 secret 4 S1Sb1Ju\$kZbBS1Pyh4QzwXyZ

C. R1(config)# username engineer2 secret 5 .password S1\$b1Ju\$kZbBS1Pyh4QzwXyZ

D. R1(config)# username engineer2 privilege 1 password 7 test2021

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

NEW QUESTION: 222

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

NEW QUESTION: 223

What is a characteristic of a SOHO network?

A. connects each switch to every other switch in the network

B. includes at least three tiers of devices to provide load balancing and redundancy

C. provides high throughput access for 1000 or more users

D. enables multiple users to share a single broadband connection

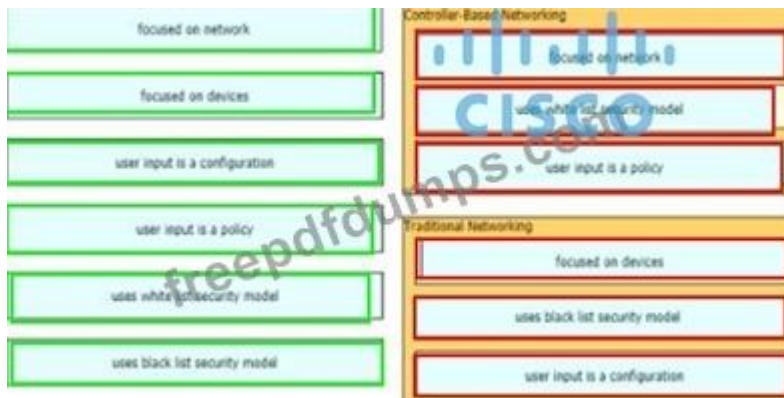
Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 224

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

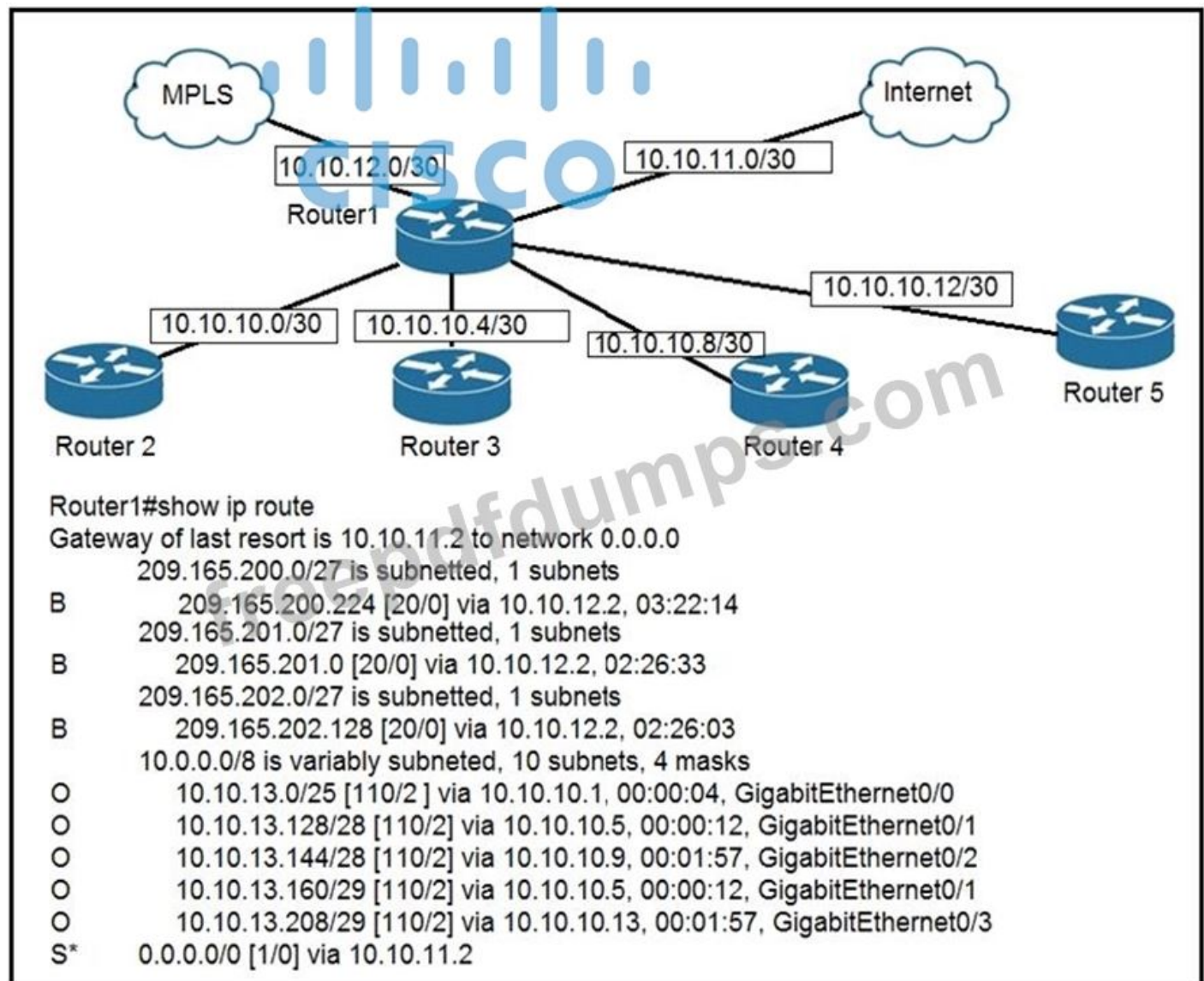


Answer:



NEW QUESTION: 225

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

NEW QUESTION: 226

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

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

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

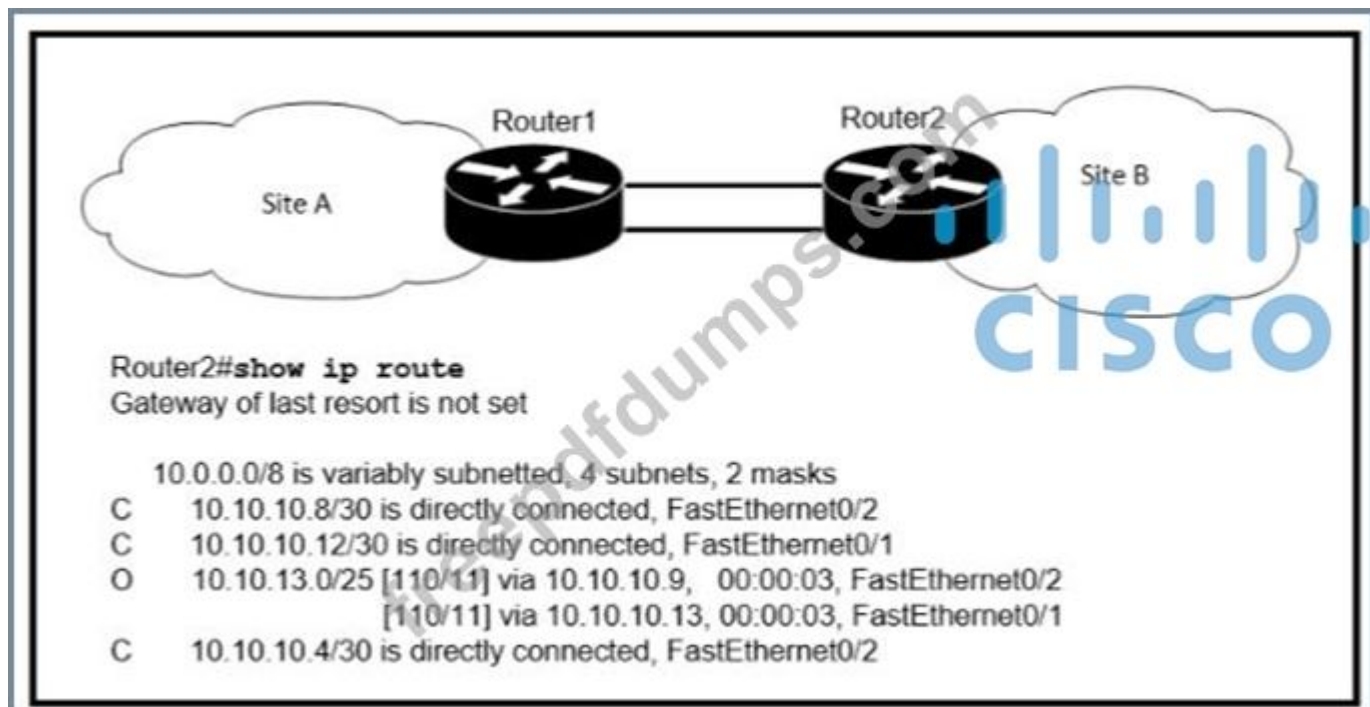
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NEW QUESTION: 227

Refer to the exhibit.



If OSPF is running on this network, how does Router 2 handle traffic from Site B to 10.10.13/25 at Site A?

- A. It sends packets out of interface Fa0/2 only.

- B. It sends packets out of interface Fa0/1 only.
- C. It cannot send packets to 10.10.13.128/25
- D. It load-balances traffic out of Fa0/1 and Fa0/2

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

Router2 does not have an entry for the subnet 10.10.13.128/25. It only has an entry for 10.10.13.0/25, which ranges from 10.10.13.0 to 10.10.13.127.

<https://study-ccna.com/administrative-distance-metric/>

NEW QUESTION: 228

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: ([SHOW ANSWER](#))

NEW QUESTION: 229

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 230

Which type of organization should use a collapsed-core architecture?

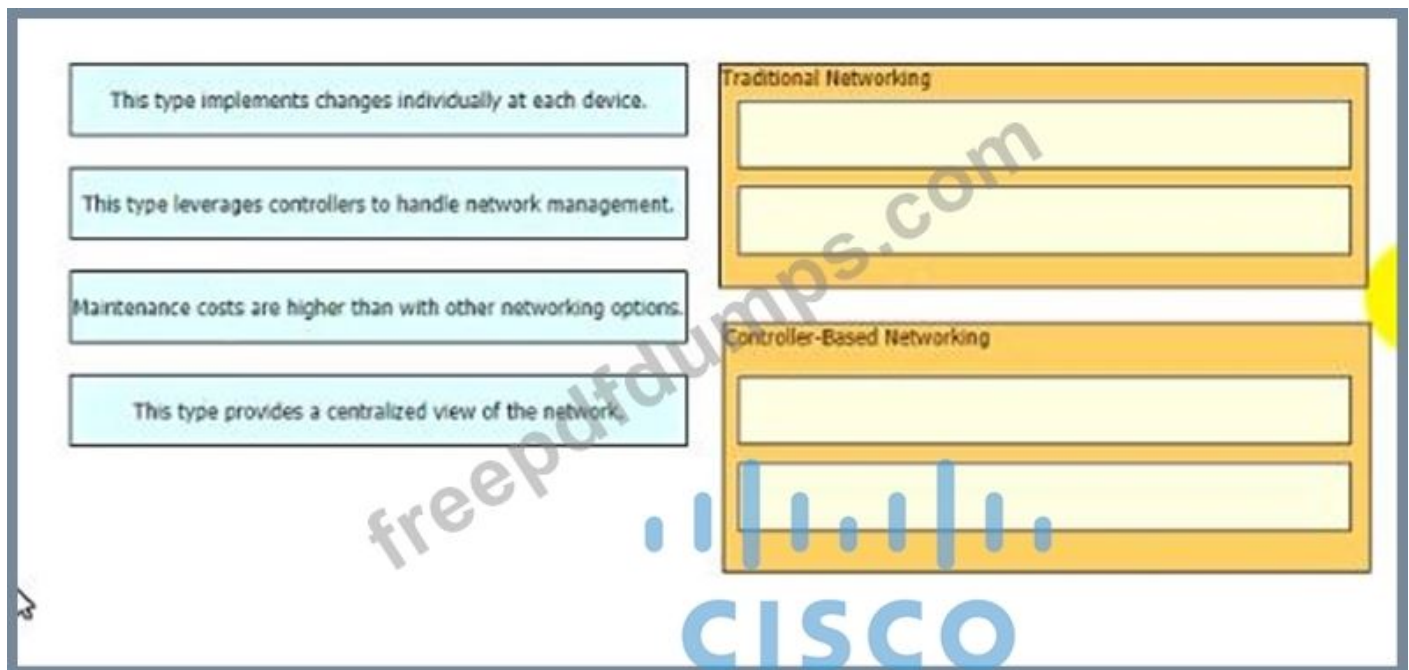
- A. large and requires a flexible, scalable network design
- B. large and must minimize downtime when hardware fails
- C. small and needs to reduce networking costs currently
- D. small but is expected to grow dramatically in the near future

Answer: ([SHOW ANSWER](#))

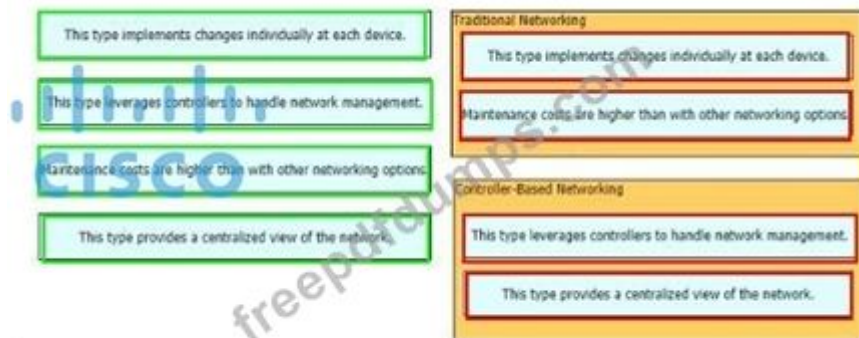
A collapsed-core architecture is a limited investment for a small company, and may be efficient and productive for a limited time.

NEW QUESTION: 231

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



Answer:



NEW QUESTION: 232

Refer to the exhibit.

```
Switch#show etherchannel summary
[output omitted]
```

Group	Port-channel	Protocol	Ports
10	Po10 (SU)	LACP	Gi0/0 (P) Gi0/1 (P)
20	Po20 (SU)	LACP	Gi0/2 (P) Gi0/3 (P)

Which two commands when used together create port channel 10? (Choose two.)

- A. int range g0/0-1 chanm.l-group 10 mode desirable
- B. int range g0/0-1 channel-group 10 mode on
- C. int range g0/0-1
channel-group 10 mode passive
- D. int range g0/0-1 channel-group 10 mode auto
- E. int range g0/0-1

channel-group 10 mode active

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 233

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. platform-as-a-service
- B. business process as service to support different types of service
- C. software-as-a-service
- D. infrastructure-as-a-service

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

NEW QUESTION: 234

Which CRUD operation corresponds to the HTTP GET method?

- A. read
- B. update
- C. create
- D. delete

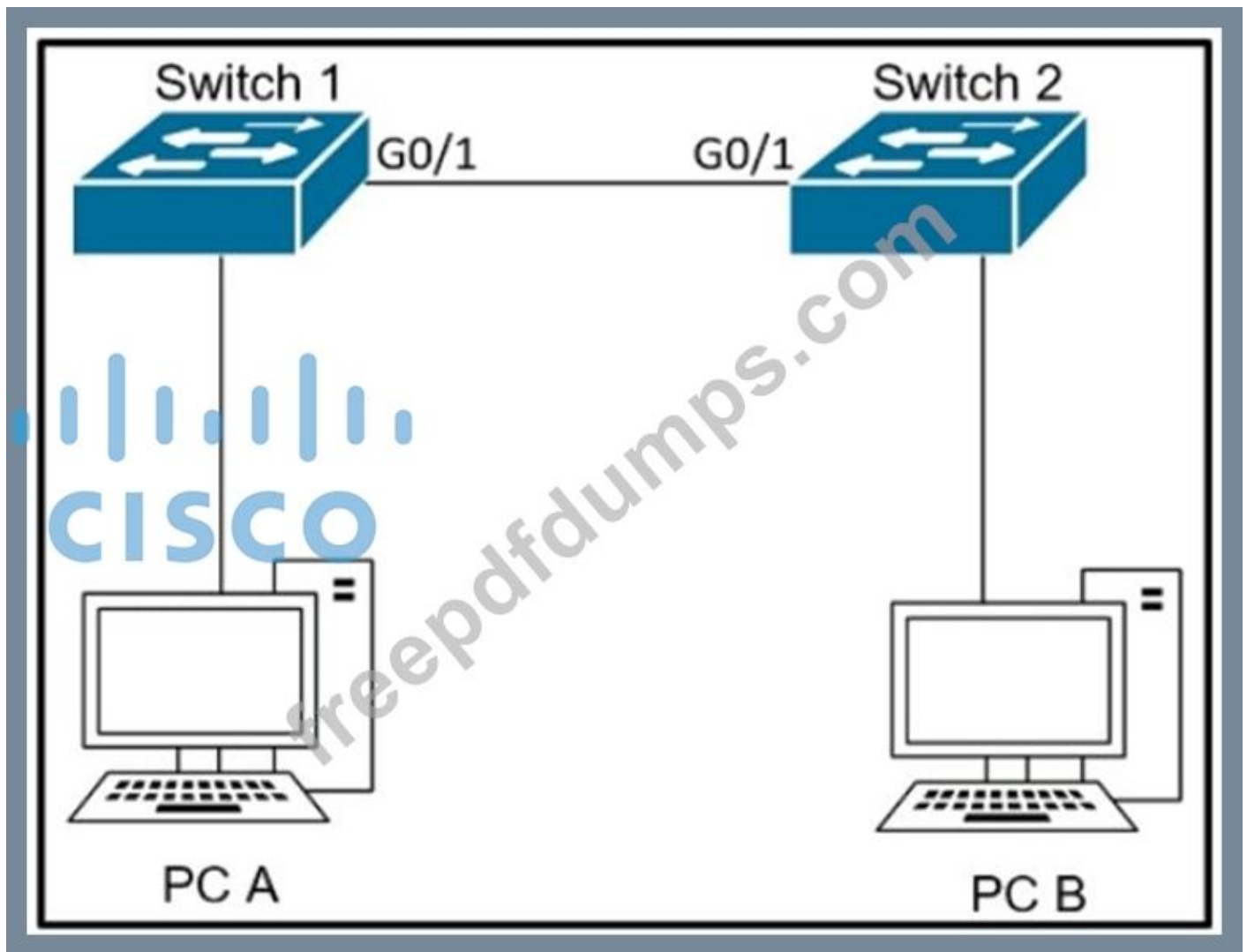
Answer: ([SHOW ANSWER](#))

GET: This method retrieves the information identified by the request URI. In the context of the RESTful web services, this method is used to retrieve resources. This is the method used for read operations (the R in CRUD).

<https://hub.packtpub.com/crud-operations-rest/>

NEW QUESTION: 235

Refer to the exhibit.



The network administrator wants VLAN 67 traffic to be untagged between Switch 1 and Switch 2 while all other VLANs are to remain tagged.

Which command accomplishes this task?

- A. switchport private-vlan association host 67
- B. switchport trunk allowed vlan 67
- C. switchport trunk native vlan 67
- D. switchport access vlan 67

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

NEW QUESTION: 236

What is the primary purpose of private address space?

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

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

NEW QUESTION: 237

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 238

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

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

NEW QUESTION: 239

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	
configured and managed by a WLC	Cloud-Based Access Point
requires a management IP address	

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Answer:



NEW QUESTION: 240

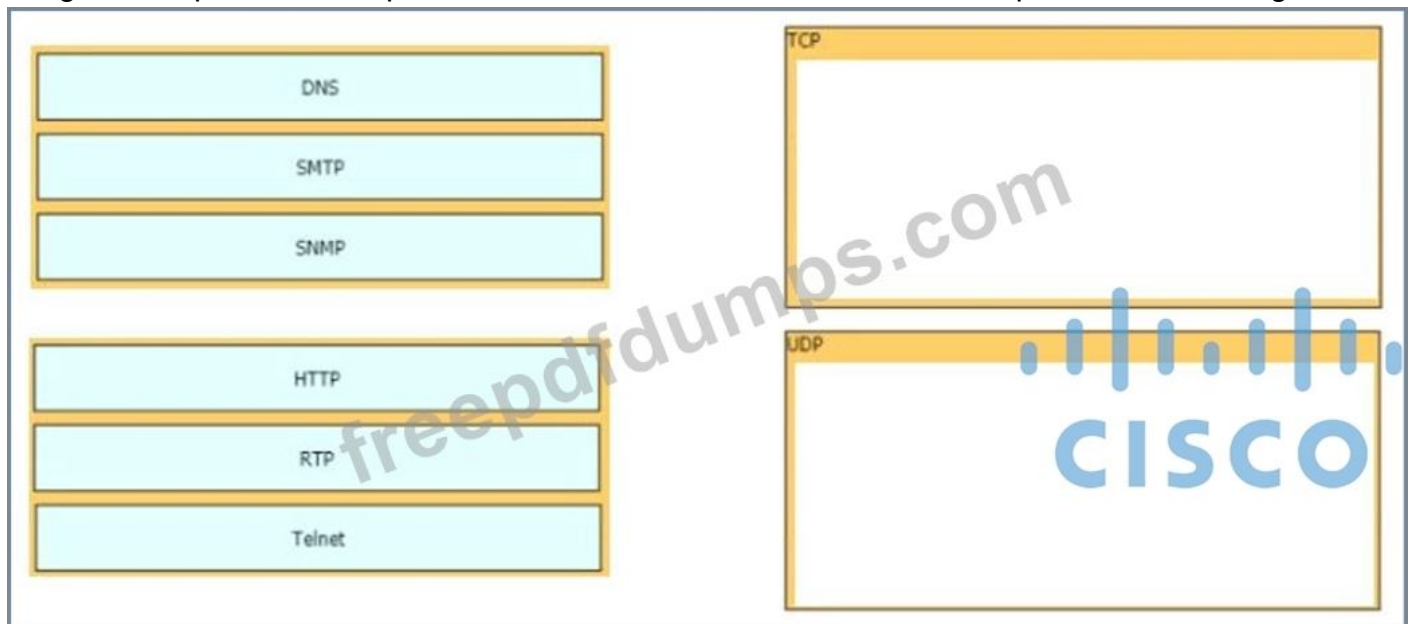
what occurs to frames during the process of frame flooding?

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

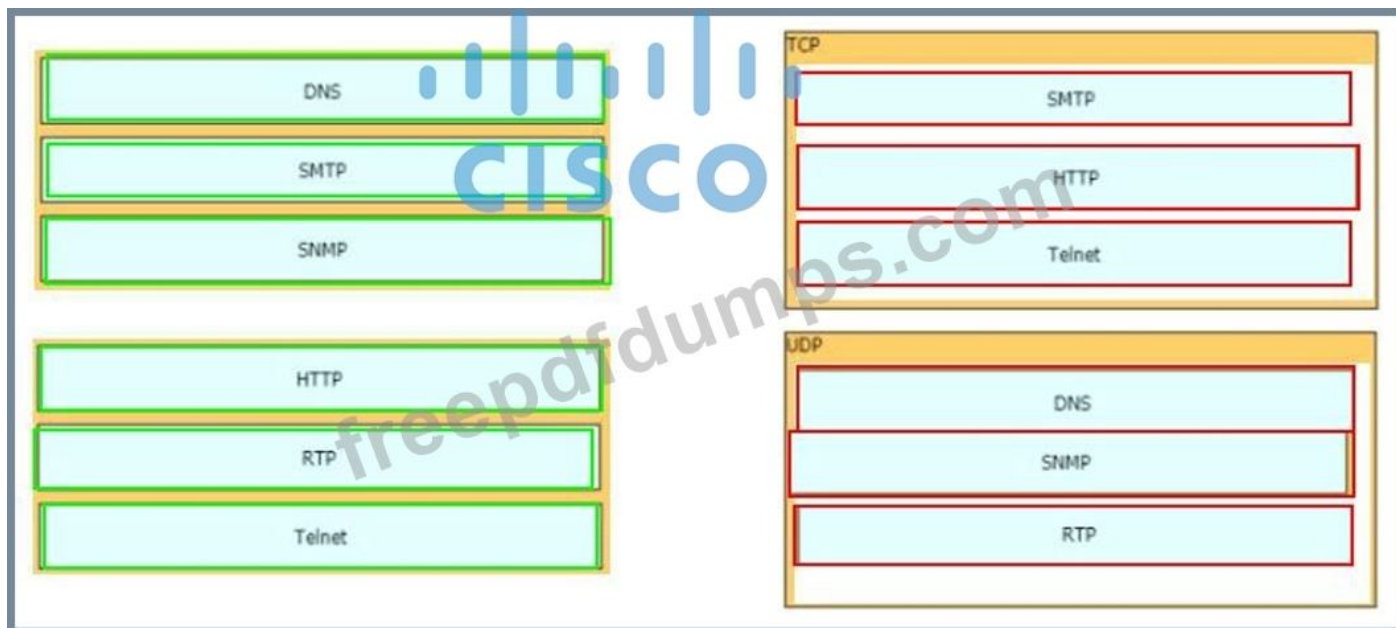
Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 241

Drag and drop the TCP/IP protocols from the left onto the transmission protocols on the right



Answer:



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NEW QUESTION: 242

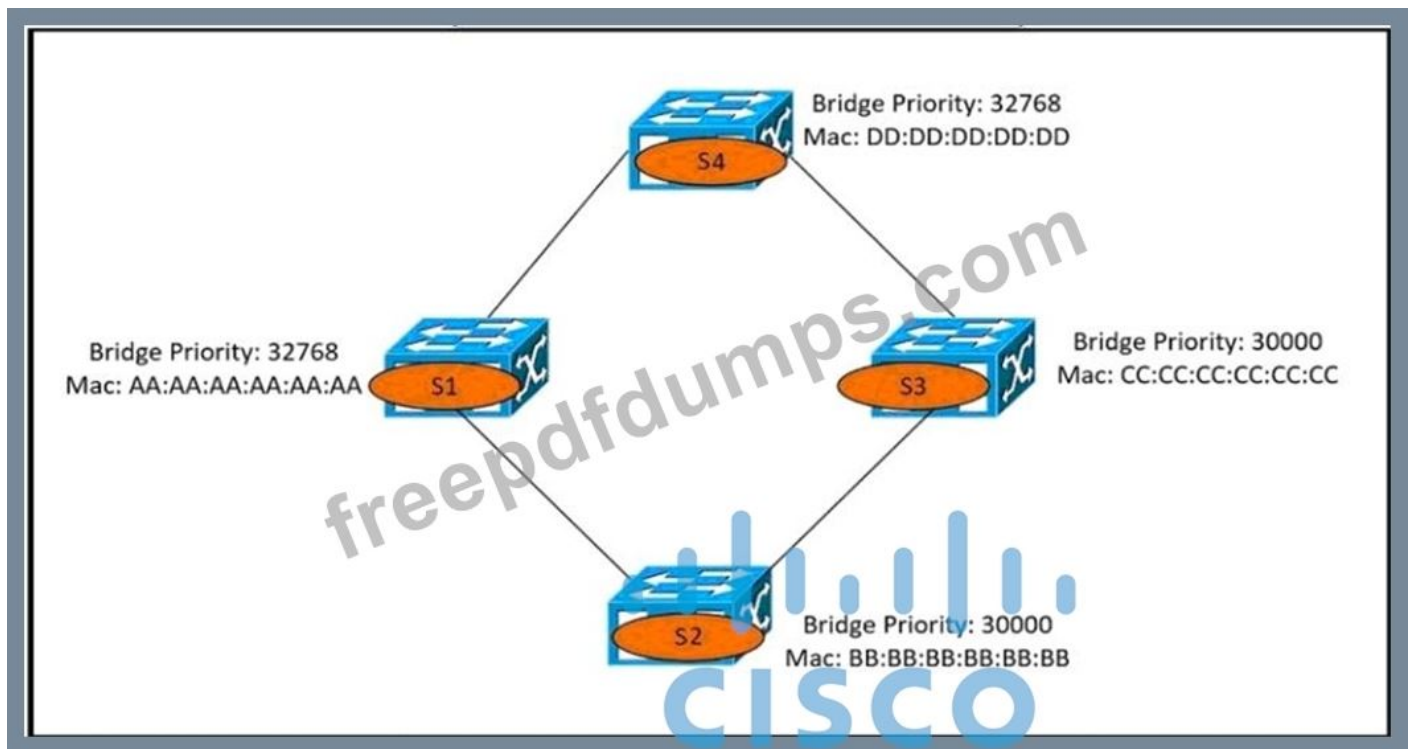
What describes the operation of virtual machines?

- A. Virtual machines are the physical hardware that support a virtual environment.
- B. Virtual machines are responsible for managing and allocating host hardware resources
- C. Virtual machines are operating system instances that are decoupled from server hardware
- D. In a virtual machine environment, physical servers must run one operating system at a time.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 243

Refer to the exhibit.



Which switch becomes the root bridge?

- A. S4
- B. S1
- C. S2
- D. S3

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

NEW QUESTION: 244

Which encryption method is used by WPA3?

- A. SAE
- B. PSK
- C. AES
- D. TKIP

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 245

Which two spanning-tree states are bypassed on an interface running PortFast? (Choose two.)

- A. learning
- B. forwarding
- C. listening
- D. blocking
- E. disabled

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

NEW QUESTION: 246

Drag drop the descriptions from the left onto the correct configuration-management technologies on the right.

fundamental configuration elements are stored in a manifest	Ansible
uses TCP port 10002 for configuration push jobs	
uses Ruby for fundamental configuration elements	
uses SSH for remote device communication	Chef
uses TCP 8140 for communication	
uses YAML for fundamental configuration elements	Puppet

Answer:

fundamental configuration elements are stored in a manifest	Ansible
uses TCP port 10002 for configuration push jobs	uses YAML for fundamental configuration elements
uses Ruby for fundamental configuration elements	uses SSH for remote device communication
uses SSH for remote device communication	Chef
uses TCP 8140 for communication	uses TCP port 10002 for configuration push jobs
uses YAML for fundamental configuration elements	uses Ruby for fundamental configuration elements
	Puppet
	uses TCP 8140 for communication
	fundamental configuration elements are stored in a manifest

NEW QUESTION: 247

An engineer must configure traffic for a VLAN that is untagged by the switch as it crosses a trunk link. Which command should be used?

- A. switchport trunk allowed vlan 10
- B. switchport trunk native vlan 10
- C. switchport mode trunk
- D. switchport trunk encapsulation dot1q

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

NEW QUESTION: 248

Refer to the exhibit.

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  : 
Description . . . . . : Realtek PCIe GBE Family
Controller
Physical Address. . . . . : 3C-52-82-33-F3-8F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . : Yes

Wireless LAN adapter Wi-Fi:
Connection-specific DNS Suffix  : arcep.se
Description . . . . . : Intel(R) Dual Band
Wireless-AC 7265
Physical Address. . . . . : C8-21-58-B4-F3-EF
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . : Yes
Link-local IPv6 Address . . . . : fe80::45a1:b3fa:2f37:bf37%2(Preferred)
IPv4 Address. . . . . : 192.168.1.226(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : October 3, 2019 12:28:08 PM
Lease Expires . . . . . : October 3, 2019 7:18:37 PM
Default Gateway . . . . . : 192.168.1.100
DHCP Server . . . . . : 192.168.1.254
DHCPv6 IAID . . . . . : 46670168
DHCPv6 Client DUID. . . . . : 00-01-00-01-20-FF-05-55-3C-52-82-33-D3-84
DNS Servers . . . . . : 192.168.1.253
NetBIOS over Tcpip. . . . . : Enabled
Connection-specific DNS Suffix Search List :
arcep.se
```

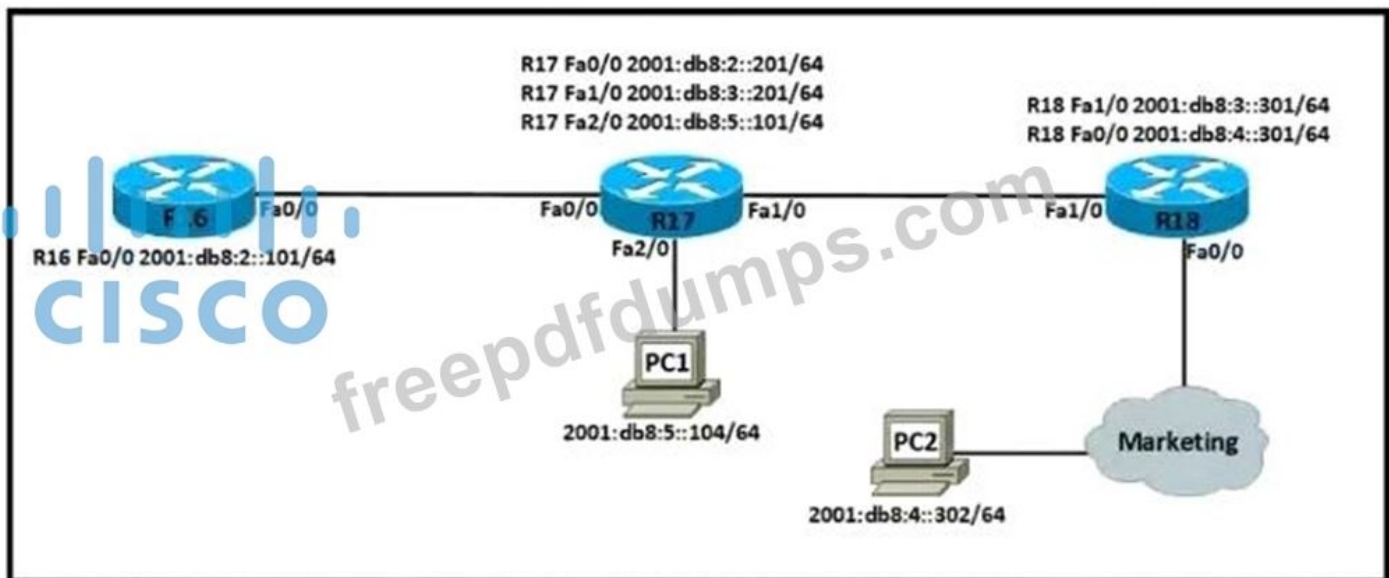
The given Windows PC is requesting the IP address of the host at www.cisco.com. To which IP address is the request sent?

- A. 192.168.1.254
- B. 192.168.1.226
- C. 192.168.1.100
- D. 192.168.1.253

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

NEW QUESTION: 249

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::101
```

B)

```
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
```

C)

```
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
```

D)

```
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
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B (LEAVE A REPLY)

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: 250

Drag and drop the functions of AAA supporting protocols from the left onto the protocols on the right.

Functions (Left):

- encrypts only the password when it sends an access request
- encrypts the entire body of the access-request packet
- separates all three AAA operations
- combines authentication and authorization
- uses TCP
- uses UDP

Protocols (Right):

- RADIUS
- TACACS+

Answer:

Functions (Left):

- encrypts only the password when it sends an access request
- encrypts the entire body of the access-request packet
- separates all three AAA operations
- combines authentication and authorization
- uses TCP
- uses UDP

Protocols (Right):

- RADIUS
 - encrypts only the password when it sends an access request
 - uses UDP
 - combines authentication and authorization
- TACACS+
 - encrypts the entire body of the access-request packet
 - separates all three AAA operations
 - uses TCP

NEW QUESTION: 251

Which function does the range of private IPv4 addresses perform?

- A. provides a direct connection for hosts from outside of the enterprise network
- B. enables secure communications to the internet for all external hosts
- C. allows multiple companies to each use the same addresses without conflicts
- D. ensures that NAT is not required to reach the internet with private range addressing

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

NEW QUESTION: 252

Which two capacities of Cisco DNA Center make it more extensible as compared to traditional campus device management? (Choose two)

- A. adapters that support all families of Cisco IOS software
- B. SDKs that support interaction with third-party network equipment
- C. customized versions for small, medium, and large enterprises

- D. REST APIs that allow for external applications to interact natively with Cisco DNA Center
- E. modular design that is upgradable as needed

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

Cisco DNA Center offers 360-degree extensibility through four distinct types of platform capabilities: + Intent-based APIs leverage the controller and enable business and IT applications to deliver intent to the network and to reap network analytics and insights for IT and business innovation. + Process adapters, built on integration APIs, allow integration with other IT and network systems to streamline IT operations and processes. + Domain adapters, built on integration APIs, allow integration with other infrastructure domains such as data center, WAN, and security to deliver a consistent intent-based infrastructure across the entire IT environment. + SDKs allow management to be extended to third-party vendor's network devices to offer support for diverse environments.

NEW QUESTION: 253

When a site-to-site VPN is used, which protocol is responsible for the transport of user data?

- A. IKEv2
- B. IKEv1
- C. IPsec
- D. MD5

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

A site-to-site VPN allows offices in multiple fixed locations to establish secure connections with each other over a public network such as the Internet. A site-to-site VPN means that two sites create a VPN tunnel by encrypting and sending data between two devices. One set of rules for creating a site-to-site VPN is defined by IPsec.

NEW QUESTION: 254

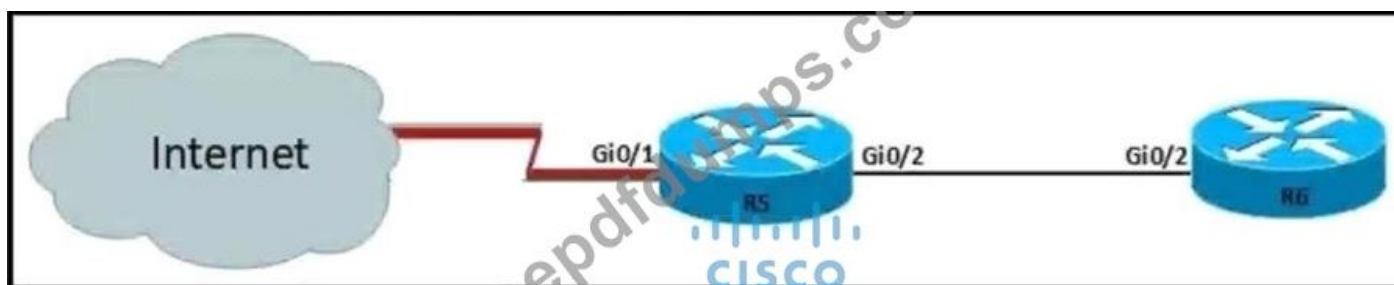
Which function does an SNMP agent perform?

- A. it sends information about MIB variables in response to requests from the NMS
- B. it requests information from remote network nodes about catastrophic system events.
- C. it coordinates user authentication between a network device and a TACACS+ or RADIUS server
- D. it manages routing between Layer 3 devices in a network

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

NEW QUESTION: 255

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-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
```

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 256

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

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

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NEW QUESTION: 257

What is the purpose of configuring different levels of syslog for different devices on the network?

- A. to identify the source from which each syslog message originated
- B. to set the severity of syslog messages from each device
- C. to rate-limit messages for different severity levels from each device
- D. to control the number of syslog messages from different devices that are stored locally

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

NEW QUESTION: 258

Drag and drop the IPv4 network subnets from the left onto the correct usable host ranges on the right

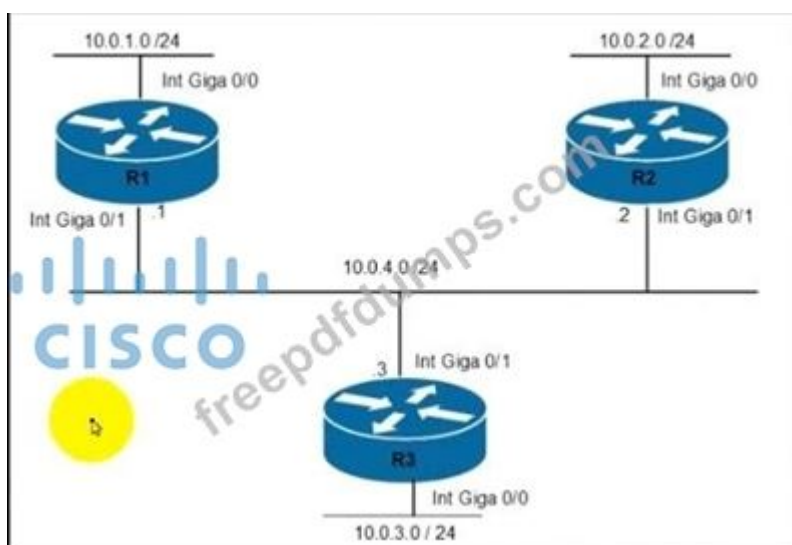
172.28.228.144/18	172.28.228.1 - 172.28.229.254
172.28.228.144/21	172.28.224.1 - 172.28.231.254
172.28.228.144/23	172.28.228.129 - 172.28.228.254
172.28.228.144/25	172.28.228.145 - 172.28.228.150
172.28.228.144/29	172.28.192.1 - 172.28.255.254

Answer:

172.28.228.144/18	172.28.228.144/23
172.28.228.144/21	172.28.228.144/21
172.28.228.144/23	172.28.228.144/25
172.28.228.144/25	172.28.228.144/29
172.28.228.144/29	172.28.228.144/18

NEW QUESTION: 259

Refer to the exhibit.



Router R1 must be configured to reach the 10.0.3.0/24 network from the 10.0.1.0/24 segment. Which command must be used to configure the route?

- A. ip route 10.0.3.0 255.255.255.0 10.0.4.3
- B. route add 10.0.3.0 mask 255.255.255.0 10.0.4.3
- C. route add 10.0.3.0 0.255.255.255 10.0.4.2
- D. ip route 10.0.3.0 0.255.255.255 10.0.4.2

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

NEW QUESTION: 260

Refer to the exhibit.



Router R1 currently is configured to use R3 as the primary route to the Internet, and the route uses the default administrative distance settings. A network engineer must configure R1 so that it uses R2 as a backup, but only if R3 goes down. Which command must the engineer configure on R1 so that it correctly uses R2 as a backup route, without changing the administrative distance configuration on the link to R3?

- A. ip route 0.0.0.0 0.0.0.0 209.165.201.5 10
- B. ip route 0.0.0.0 0.0.0.0 g0/1 6
- C. ip route 0.0.0.0 0.0.0.0 g0/1 1
- D. ip route 0.0.0.0 0.0.0.0 209.165.200.226 1

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 261

Which field within the access-request packet is encrypted by RADIUS?

- A. authenticator
- B. password
- C. authorized services
- D. username

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

NEW QUESTION: 262

Refer to the exhibit.

```

R1# show ip route | begin gateway
Gateway of last resort is 207.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 207.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
S 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. 207.165.200.254 via Serial0/0/1
- C. 207.165.200.246 via Serial0/1/0
- D. 207.165.200.250 via Serial0/0/0

Answer: ([SHOW ANSWER](#))

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