

CCNA (200-301) 题库V1.0(2021.05.28)

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Exam A

QUESTION 1

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 2

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

Reference:

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wlan-security/71978-acl-wlc.html>

QUESTION 3

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 4

How do TCP and UDP differ in the way that they establish a connection between two endpoints?

- A. TCP use the three-way handshake, and UDP does not guarantee message delivery
- B. TCP uses synchronization packets, and UDP uses acknowledgement packets
- C. UDP provides reliable message transfer, and TCP is a connectionless protocol.
- D. UDP uses SYN, SYN ACK, and FIN bits in the frame header while TCP uses SYN, SYN ACK, and ACK bits.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 5

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

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



Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 6

A Cisco IP phone receive untagged data traffic from an attached PC. Which action is taken by the phone?

- A. It allows the traffic to pass through unchanged
- B. It drops the traffic
- C. It tags the traffic with the default VLAN
- D. It tags the traffic with the native VLAN

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 7

```
Designated Router (ID) 10.11.11.11, Interface address 10.10.10.1
Backup Designated router (ID) 10.3.3.3, Interface address 10.10.10.3
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 1/1/1, flood queue length 0
Next 0x0(0)/0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 6
Last flood scan time is 0 msec, maximum is 1 msec
Neighbor Count is 3, Adjacent neighbor count is 3
Adjacent with neighbor 10.1.1.4
Adjacent with neighbor 10.2.2.2
Adjacent with neighbor 10.3.3.3 (Backup Designated Router)
Suppress hello for 0 neighbor(s)
```

Refer to the exhibit. The show ip ospf interface command has been executed on R1. How is OSPF configured?

- A. The interface is not participating in OSPF
- B. A point-to-point network type is configured
- C. The default Hello and Dead timers are in use
- D. There are six OSPF neighbors on this interface

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 8

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 9

When a floating static route is configured, which action ensures that the backup route is used when the primary route fails?

- A. The floating static route must have a higher administrative distance than the primary route so it is used as a backup
- B. The administrative distance must be higher on the primary route so that the backup route becomes secondary.
- C. The floating static route must have a lower administrative distance than the primary route so it is used as a backup
- D. The default-information originate command must be configured for the route to be installed into the routing table

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 10

Which mode must be used to configure EtherChannel between two switches without using a negotiation protocol?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 11

What are two descriptions of three-tier network topologies? (Choose two.)

- A. The distribution layer runs Layer 2 and Layer 3 technologies.
- B. The network core is designed to maintain continuous connectivity when devices fail.
- C. The core layer maintains wired connections for each host.
- D. The core and distribution layers perform the same functions
- E. The access layer manages routing between devices in different domains.

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

QUESTION 12

```
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
```

Refer to the exhibit. Which statement explains the configuration error message that is received?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 13

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 14

Which function does an SNMP agent perform?

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

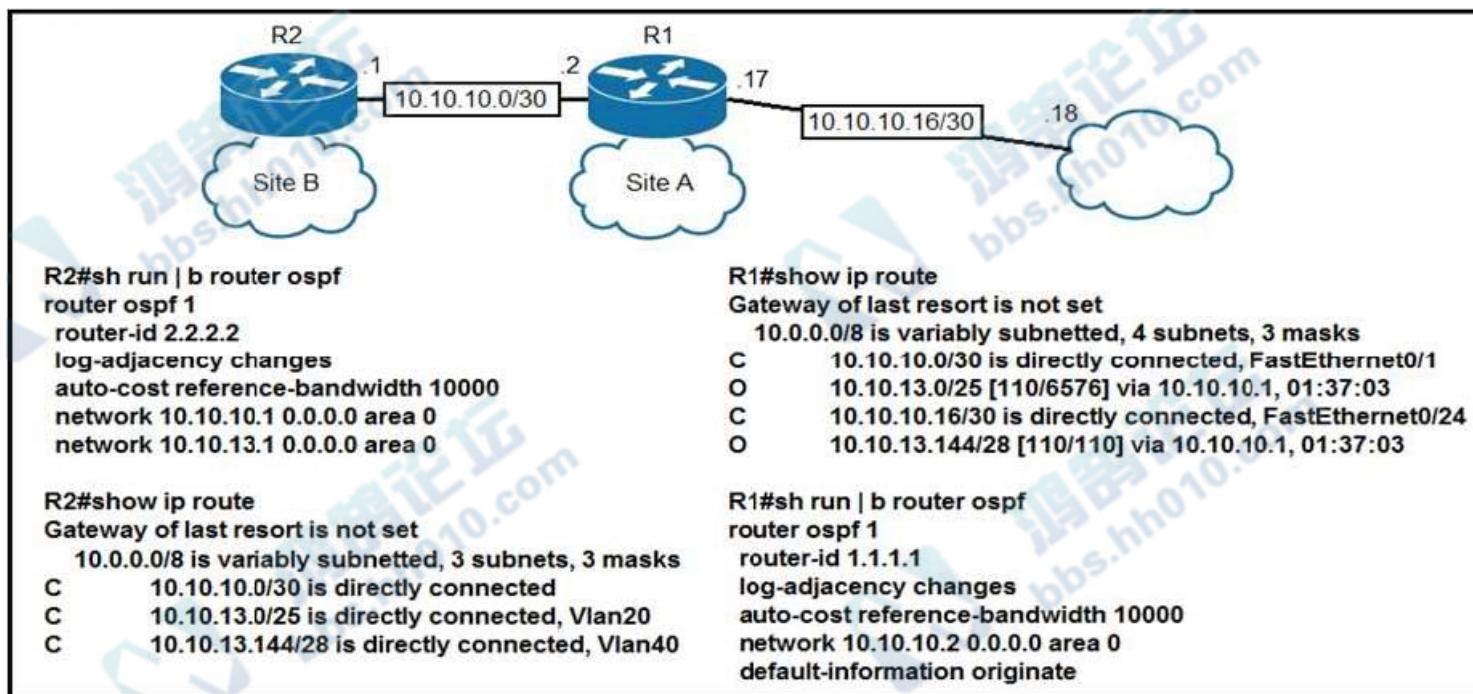
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 15



Refer to the exhibit. The **default-information originate** command is configured under the R1 OSPF configuration. After testing, workstation on VLAN 20 at Site B cannot reach a DNS server on the Internet.

which action corrects the configuration issue?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 16

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. fewer network failures
- E. increased network security

Correct Answer: AC

Section: choice

Explanation

Explanation/Reference:

QUESTION 17

Which two command sequences must you configure on a 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 GigabitEthernet0/0/1
 Channel-group 10 mode auto
- C. interface GigabitEthernet0/0/1
 Channel-group 10 mode on
- D. interface port-channel 10
 no switchport
 ip address 172.16.0.1 255.255.255.0
- E. interface port-channel 10
 switchport
 Switchport mode trunk

Correct Answer: AD

Section: choice

Explanation

Explanation/Reference:

QUESTION 18

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 19

R1 has learned route 10.10.10.0/24 via numerous routing protocols, which route is installed?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 20

which network allows devices to communicate without the need to access the internet?

- A. 172.9.0.0/16
- B. 172.28.0.0/16
- C. 192.0.0.0/18
- D. 209.165.201.0/24

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 21

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 22

which command must be entered when a device is configured as an NTP server?

- A. ntp master
- B. ntp sever
- C. ntp authenticate
- D. ntp peer

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 23

When OSPF learns multiple paths to a network, how does it select a route?

- A. It multiplies the active K value by 256 to calculate the route with the lowest metric.
- B. For each existing interface, it adds the metric from the source router to the destination to calculate the route with the lowest bandwidth.
- C. It divides a reference bandwidth of 100 Mbps by the actual bandwidth of the existing interface to calculate the router with the lowest cost.
- D. It counts the number of hops between the source router and the destination to determine the router with the lowest metric

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 24

What is a characteristic of spine-and-leaf architecture?

- A. It provides variable latency.
- B. Each link between leaf switches allows for higher bandwidth.
- C. Each device is separated by the same number of hops.
- D. It provides greater predictability on STP blocked ports.

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 25

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

- A. The two routers share a virtual IP address that is used as the default gateway for devices on the LAN.

- B. The two routers negotiate one router as the active router and the other as the standby router
- C. Each router has a different IP address both routers act as the default gateway on the LAN, and traffic is load balanced between them.
- D. The two routers synchronize configurations to provide consistent packet forwarding
- E. The two routers share the same IP address, and default gateway traffic is load-balanced between them

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

QUESTION 26

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 27

```
ip arp inspection vlan 2
interface fastethernet 0/1
    switchport mode access
    switchport access vlan 2
```

Refer to the exhibit. What is the effect of this configuration?

- A. The switch port interface trust state becomes untrusted
- B. The switch port remains administratively down until the interface is connected to another switch
- C. Dynamic ARP inspection is disabled because the ARP ACL is missing
- D. The switch port remains down until it is configured to trust or untrust incoming packets

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 28

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 connections to every spine switch
- D. A leaf switch can be added with a single connection to a core spine switch

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 29

```
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
```

Refer to the exhibit. Router R1 is running three different routing protocols. Which route characteristic is used by the router to forward the packet that receives for

destination IP 172.16.32.1?

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 30

Which configuration is needed to generate an RSA key for SSH on a router?

- A. Configure the version of SSH
- B. Configure VTY access.
- C. Create a user with a password
- D. Assign a DNS domain name

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 31

Which API is used in controller-based architectures to interact with edge devices?

- A. overlay
- B. northbound
- C. underlay
- D. southbound

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 32

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

- A. R1# config t
R1(config)# ip routing
R1(config)# ip route default-route 192.168.1.1
- B. R1# config t
R1(config)# ip routing
R1(config)# ip route 0.0.0.0 0.0.0.0 192.168.1.1
- C. R1# config t
R1(config)# ip routing
R1(config)# ip route 192.168.1.1 0.0.0.0 0.0.0.0
- D. R1# config t
R1(config)# ip routing
R1(config)# ip default-gateway 192.168.1.1

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 33

What is a benefit of using a Cisco Wireless LAN Controller?

- A. Central AP management requires more complex configurations
- B. Unique SSIDs cannot use the same authentication method
- C. It supports autonomous and lightweight APs
- D. It eliminates the need to configure each access point individually

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 34

An engineer must configure a /30 subnet between two routers. Which usable IP address and subnet mask combination meets this criteria?

- A. interface e0/0
description to HQ-A370:98968
ip address 10.2.1.3 255.255.255.252
- B. interface e0/0
description to HQ-A370:98968
ip address 192.168.1.1 255.255.255.248
- C. interface e0/0
description to HQ-A370:98968
ip address 172.16.1.4 255.255.255.248
- D. interface e0/0
description to HQ-A370:98968
ip address 209.165.201.2 255.255.255.252

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 35

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/configguide/b_cg85/flexconnect.html

QUESTION 36

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

Channel group 35 neighbors

Partner's information:

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

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 37

which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

- A. TKIP encryption
- B. SAE encryption
- C. AES encryption
- D. scrambled encryption key

Correct Answer: B

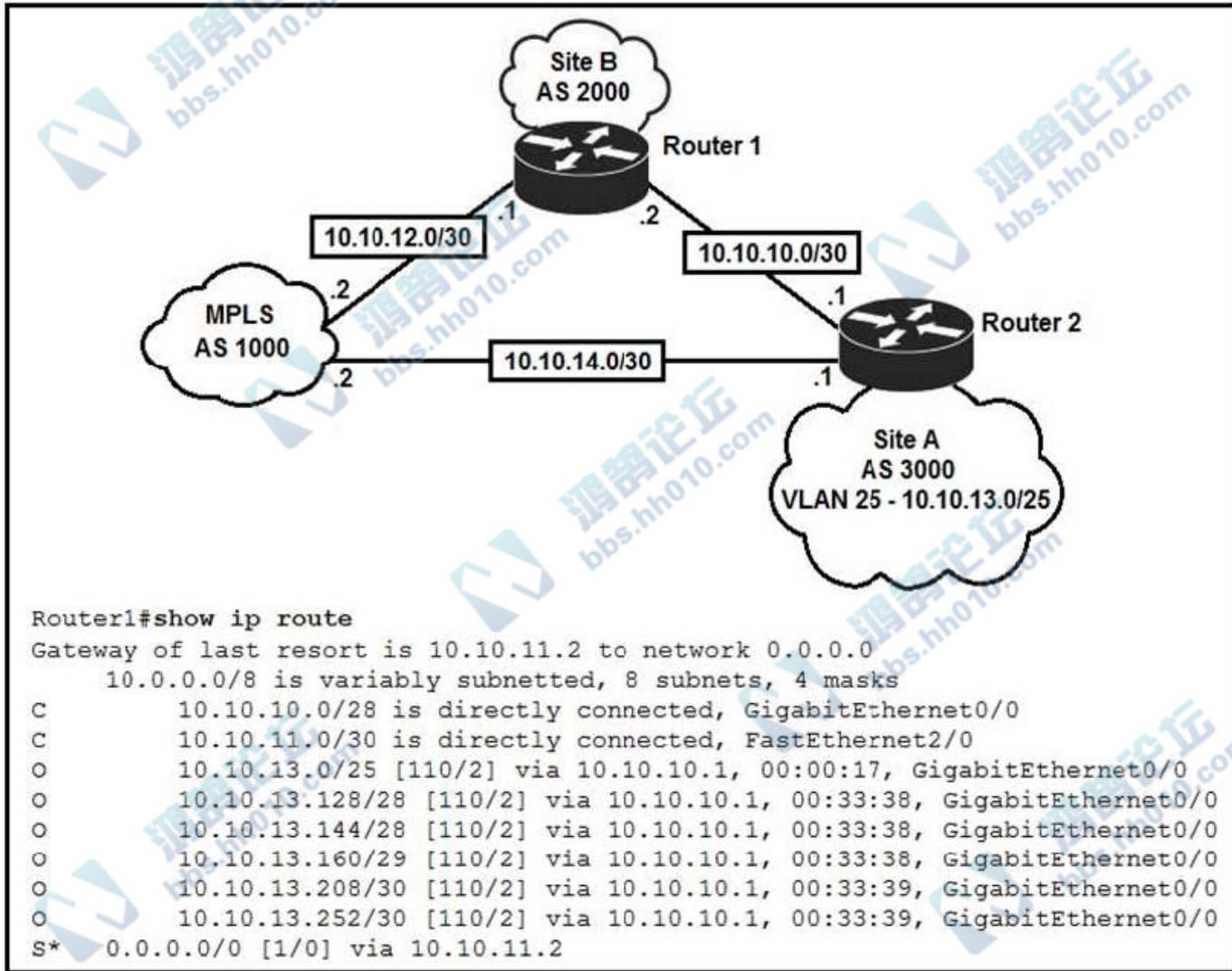
Section: choice

Explanation

Explanation/Reference:

QUESTION 38

Refer to the exhibit. An engineer is bringing up a new circuit to the MPLS provider on the Gi0/1 interface of Router1. The new circuit uses eBGP and teams the route to VLAN25 from the BGP path. What is the expected behavior for the traffic flow for route 10.10.13.0/25?



- A. Traffic to 10.10.13.0.25 is load balanced out of multiple interfaces
- B. Route 10.10.13.0/25 is updated in the routing table as being learned from interface Gi0/1.
- C. Traffic to 10.10.13.0/25 is a symmetrical

- D. Route 10.10.13.0/25 learned via the Gi0/0 interface remains in the routing table

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 39

Refer to the exhibit. How does router R1 handle traffic to 192.168.10.16?

```
R1# show ip route
D  192.168.10.0/24 [90/2679326] via 192.168.1.1
R  192.168.10.0/27 [120/3] via 192.168.1.2
O  192.168.10.0/23 [110/2] via 192.168.1.3
i L1 192.168.10.0/13 [115/30] via 192.168.1.4
```

- A. It selects the EIGRP route because it has the lowest administrative distance
- B. It selects the RIP route because it has the longest prefix inclusive of the destination address
- C. It selects the OSPF route because it has the lowest cost
- D. It selects the IS-IS route because it has the shortest prefix inclusive of the destination address

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 40

Which two actions influence the EIGRP route selection process? (Choose two)

- A. The router calculates the reported distance by multiplying the delay on the exiting Interface by 256.
- B. The router calculates the best backup path to the destination route and assigns it as the feasible successor.
- C. The router calculates the feasible distance of all paths to the destination route

- D. The advertised distance is calculated by a downstream neighbor to inform the local router of the bandwidth on the link
- E. The router must use the advertised distance as the metric for any given route

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 41

Refer to the exhibit. which two commands were used to create port channel 10?(choose two)

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)

- A. int range g0/0-1
Channel-group 10 mode active
- B. Bint range g0/0-1
Channel-group 10 mode desirable
- 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 on

Correct Answer: AC

Section: choice

Explanation

Explanation/Reference:

QUESTION 42

What is a difference between RADIUS and TACACS+?

- A. TACACS+ encrypts only password information and RADIUS encrypts the entire payload
- B. RADIUS logs all commands that are entered by the administrator, but TACACS+ logs only start, stop, and interim commands
- C. RADIUS is most appropriate for dial authentication, but TACACS+ can be used for multiple types of authentication
- D. TACACS+ separates authentication and authorization, and RADIUS merges them

Correct Answer: D

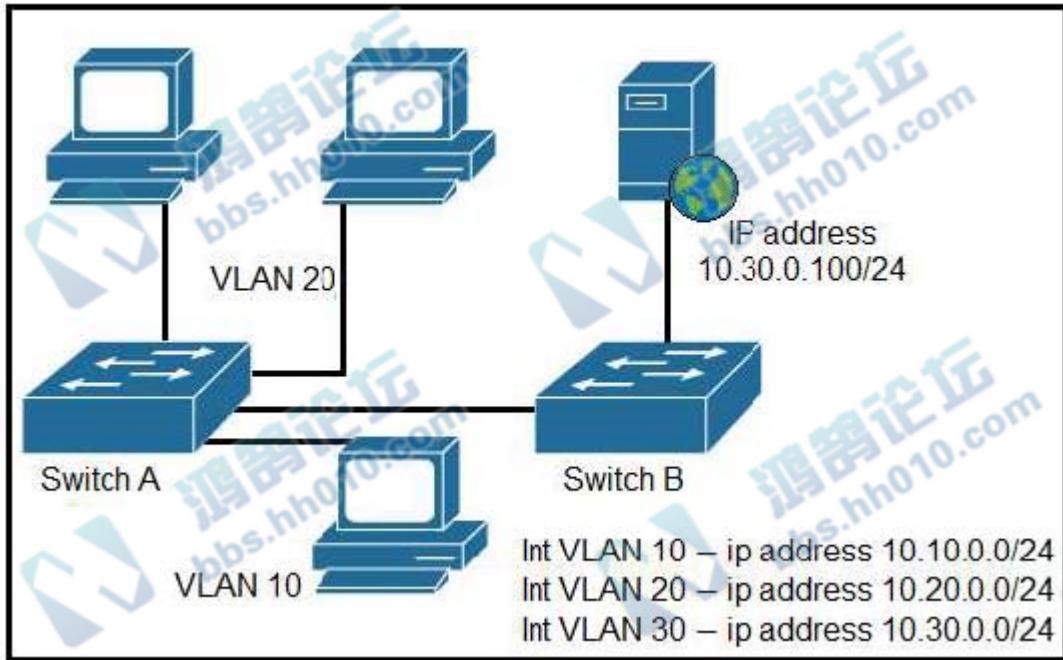
Section: choice

Explanation

Explanation/Reference:

QUESTION 43

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?



- A. 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
```
- B. 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
```

- C. 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
- D. 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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 44

Refer to the exhibit. How does the router manage traffic to 192.168.12.16?

EIGRP: 192.168.12.0/24
RIP: 192.168.12.0/27
OSPF: 192.168.12.0/28

- A. It selects RIP route because it has the longest prefix inclusive of the destination address
- B. It chooses the EIGRP route because it has the lowest administrative distance
- C. It load-balances traffic between all three routes
- D. It chooses the OSPF route because it has the longest prefix inclusive of the destination address

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 45

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 46

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

Correct Answer: BD

Section: choice

Explanation

Explanation/Reference:

QUESTION 47

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 48

How do traditional campus device management and Cisco DNA Center device management differ in regards to deployment?

- A. Cisco DNA Center device management can be implemented at a lower cost than most traditional campus device management options
- B. Traditional campus device management schemes can typically deploy patches and updates more quickly than Cisco DNA Center device management.
- C. Cisco DNA Center device management can deploy a network more quickly than traditional campus device management
- D. Traditional campus device management allows a network to scale more quickly than with Cisco DNA Center device management.

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 49

Which two actions are performed by the Weighted Random Early Detection mechanism?(Choose two)

- A. It drops lower-priority packets before it drops higher-priority packets
- B. It can identify different flows with a high level of granularity
- C. It guarantees the delivery of high-priority packets
- D. It can mitigate congestion by preventing the queue from filling up
- E. IT supports protocol discovery

Correct Answer: AD

Section: choice

Explanation

Explanation/Reference:

加权随机早期检测（WRED: Weighted Random Early Detection）是将随机早期检测与优先级排队结合起来，这种结合为高优先级分组提供了优先通信处理能力。当某个接口开始出现拥塞时，它有选择地丢弃较低优先级的通信，而不是简单地随机丢弃分组。

QUESTION 50

Which set of action satisfy the requirement for multi-factor authentication?

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 51

How do AAA operations compare regarding user identification, user services, and access control?

- A. Authorization provides access control, and authentication tracks user services
- B. Accounting tracks user services, and authentication provides access control.
- C. Authorization identifies users, and authentication provides access control
- D. Authentication identifies users, and accounting tracks user services

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 52

What is a difference between local AP mode and FlexConnect AP mode?

- A. FlexConnect AP mode fails to function if the AP loses connectivity with the WLC.
- B. FlexConnect AP mode bridges the traffic from the AP to the WLC when local switching is configured.
- C. Local AP mode creates two CAPWAP tunnels per AF to the WLC.
- D. Local AP mode causes the AP to behave as if it were an autonomous AP.

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 53

which function dose the range of private IPv4 addresses perform?

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

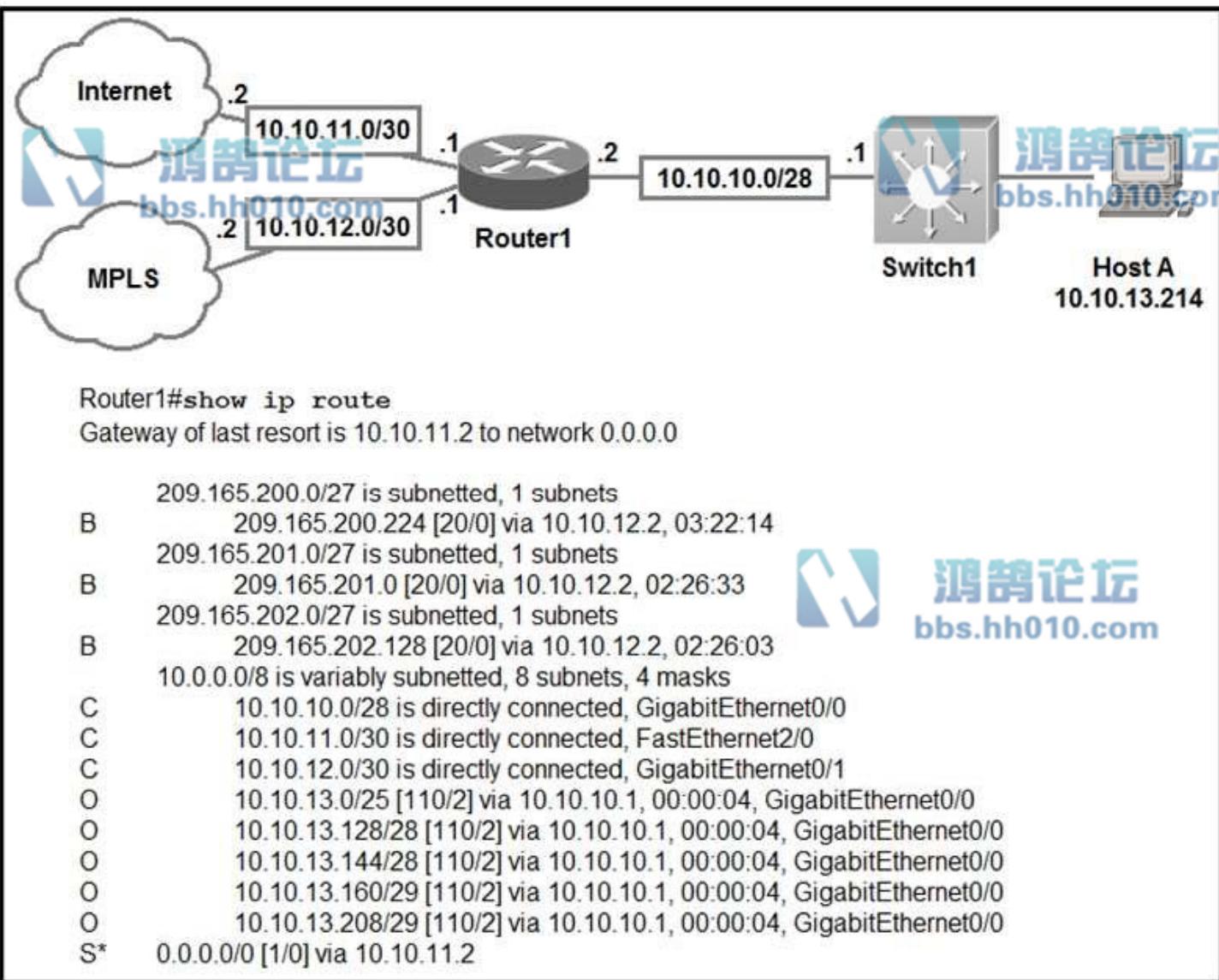
Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 54



Refer to the exhibit.Which prefix does Router 1 use 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

Correct Answer: D
Section: choice
Explanation

Explanation/Reference:

QUESTION 55

A fram that enters a switch fails the Frame Check Sequence.Which two interface counters are incremented?

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

Correct Answer: AD
Section: choice
Explanation

Explanation/Reference:

QUESTION 56

what event has occurred if a router sends a notice level message to a syslog server?

- A. An interface line has changed status
- B. An ICMP connection has been built
- C. A certificate has expired
- D. A TCP connection has been torn down

Correct Answer: A
Section: choice
Explanation

Explanation/Reference:

QUESTION 57

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 58

```
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 Li 192.168.16.0/27 [115/30] via 192.168.1.4
```

Refer to the exhibit. 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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 59

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

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

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

Reference:

<https://www.cisco.com/c/en/us/support/docs/security-vpn/secure-shell-ssh/4145-ssh.html>

QUESTION 60

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

Refer to the exhibit. 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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 61

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960/software/release/12-2_37_ey/configuration/guide/scg/swlldp.pdf

QUESTION 62

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

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

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

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

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 63

which statement identifies the functionality of virtual machines?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 64

when configuring IPv6 on an interface, which two IPv6 multicast groups are joined? (choose two)

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

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6/configuration/xe-3s/ipv6-xe-36s-book/ip6-multicast.html>

QUESTION 65

Which option about JSON is true?

- A. uses predefined tags or angle brackets () to delimit markup text
- B. used to describe structured data that includes arrays
- C. used for storing information
- D. similar to HTML, it is more verbose than XML

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 66

Which statement correctly compares traditional networks and controller-based networks?

- A. Only traditional networks offer a centralized control plane
- B. Only traditional networks natively support centralized management
- C. Traditional and controller-based networks abstract policies from device configurations
- D. Only controller-based networks decouple the control plane and the data plane

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 67

What are two fundamentals of virtualization? (Choose two.)

- A. It allows multiple operating systems and applications to run independently on one physical server.
- B. It allows a physical router to directly connect NICs from each virtual machine into the network.
- C. The environment must be configured with one hypervisor that serves solely as a network manager to monitor SNMP traffic.
- D. It allows logical network devices to move traffic between virtual machines and the rest of the physical network.
- E. It requires that some servers, virtual machines, and network gear reside on the Internet.

Correct Answer: AD

Section: choice

Explanation

Explanation/Reference:

QUESTION 68

Refer to the exhibit. What two conclusions should be made about this configuration?(choose two)

```
SW1#show spanning-tree vlan 30

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

[Output suppressed]
```

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

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

QUESTION 69

Which command enables a router to become a DHCP client?

- A. ip address dhcp
- B. ip helper-address

- C. ip dhcp pool
- D. ip dhcp client

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 70

iBGP route 10.0.0.0/30
RIP route 10.0.0.0/30
OSPF route 10.0.0.0/16
OSPF route 10.0.0.0/30
EIGRP route 10.0.0.1/32

Refer to the exhibit. A router received these five routes from different routing information sources. Which two routes does the router install in the routing table? (choose two)

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

Correct Answer: CE

Section: choice

Explanation

Explanation/Reference:

QUESTION 71

what is the default behavior of a layer 2 switch when a frame with an unknown destination MAC address is received ?

- A. The Layer 2 switch forwards the packet and adds the destination MAC address to its MAC address table
- B. The Layer 2 switch sends a copy of a packet to CPU for destination MAC address learning
- C. The Layer 2 switch floods packets to all ports except the receiving port in the given VLAN
- D. The Layer 2 switch drops the received frame

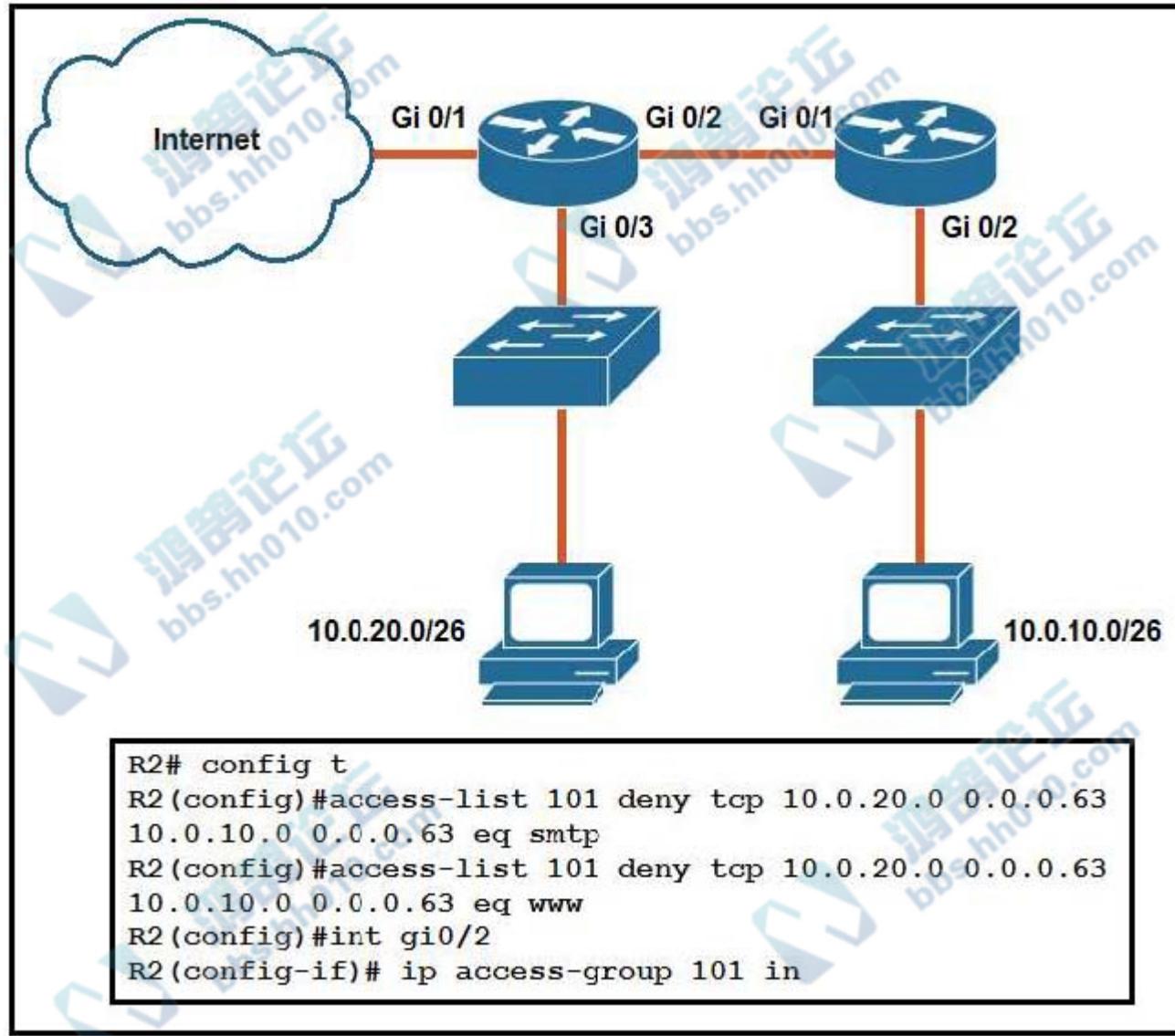
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 72



Refer to the exhibit. An extended ACL has been configured and applied to router R2. The configuration failed to work as intended. Which two changes stop outbound traffic on TCP ports 25 and 80 to 10.0.20.0/26 from the 10.0.10.0/26 subnet while still allowing all other traffic? (Choose two)

- A. Add a "permit ip any any" statement to the beginning of ACL 101 for allowed traffic.
- B. Add a "permit ip any any" statement at the end of ACL 101 for allowed traffic
- C. The source and destination IPs must be swapped in ACL 101
- D. The ACL must be configured the Gi0/2 interface in bound on R1
- E. The ACL must be moved to the Gi0/1interface outbound onR2

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 73

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

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

Correct Answer: AD

Section: choice

Explanation

Explanation/Reference:

QUESTION 74

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

- A. port-to-multipoint

- B. broadcast
- C. point-to-point
- D. non-broadcast

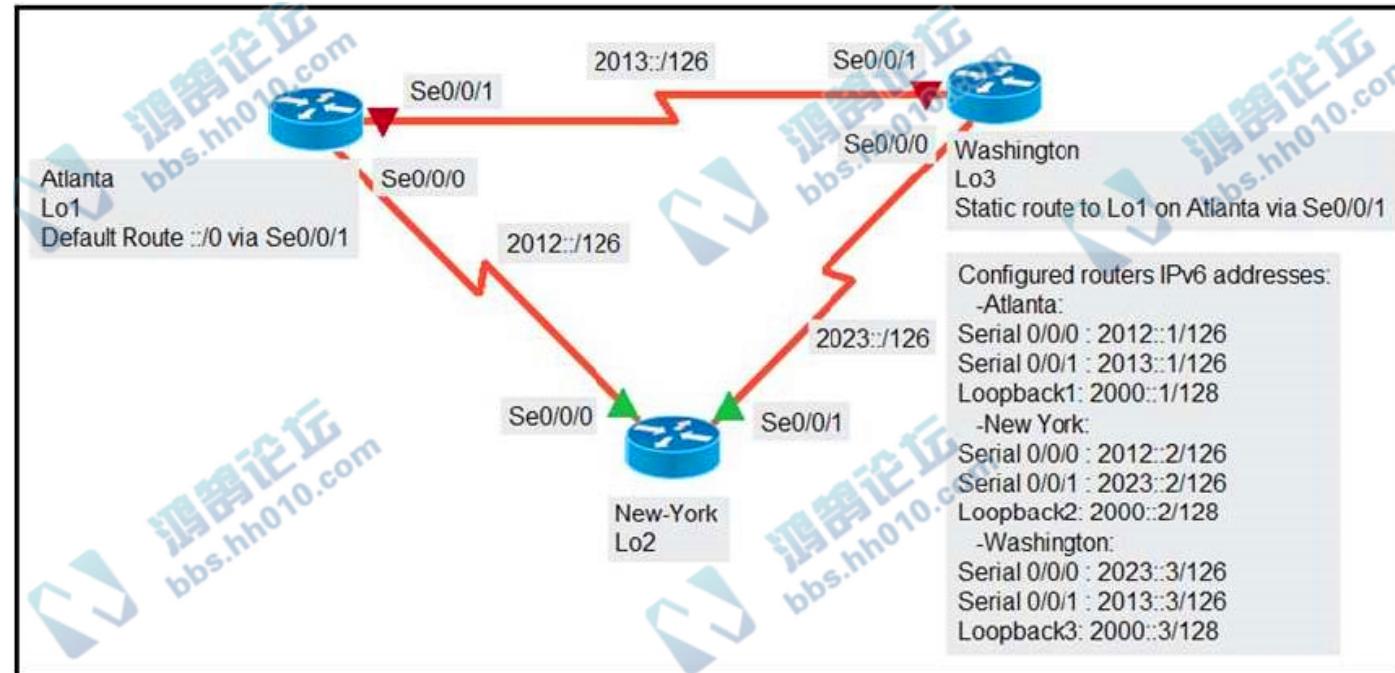
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 75



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

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

Correct Answer: AE

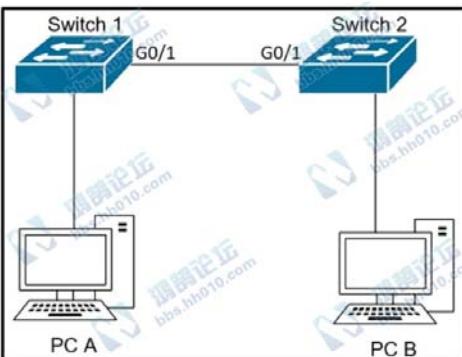
Section: choice

Explanation

Explanation/Reference:

QUESTION 76

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 77

What are two differences between optical-fiber cabling and copper cabling? (Choose two.)

- A. Fiber connects to physical interfaces using RJ-45 connections.
- B. The data can pass through the cladding.
- C. Light is transmitted through the core of the fiber.
- D. The glass core component is encased in a cladding.
- E. A BNC connector is used for fiber connections.

Correct Answer: CD

Section: choice

Explanation

Explanation/Reference:

QUESTION 78

which IPv6 address type provides communication between subnets and cannot route on the internet?

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 79

which 802.11 frame type is association response ?

- A. management

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 80

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

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

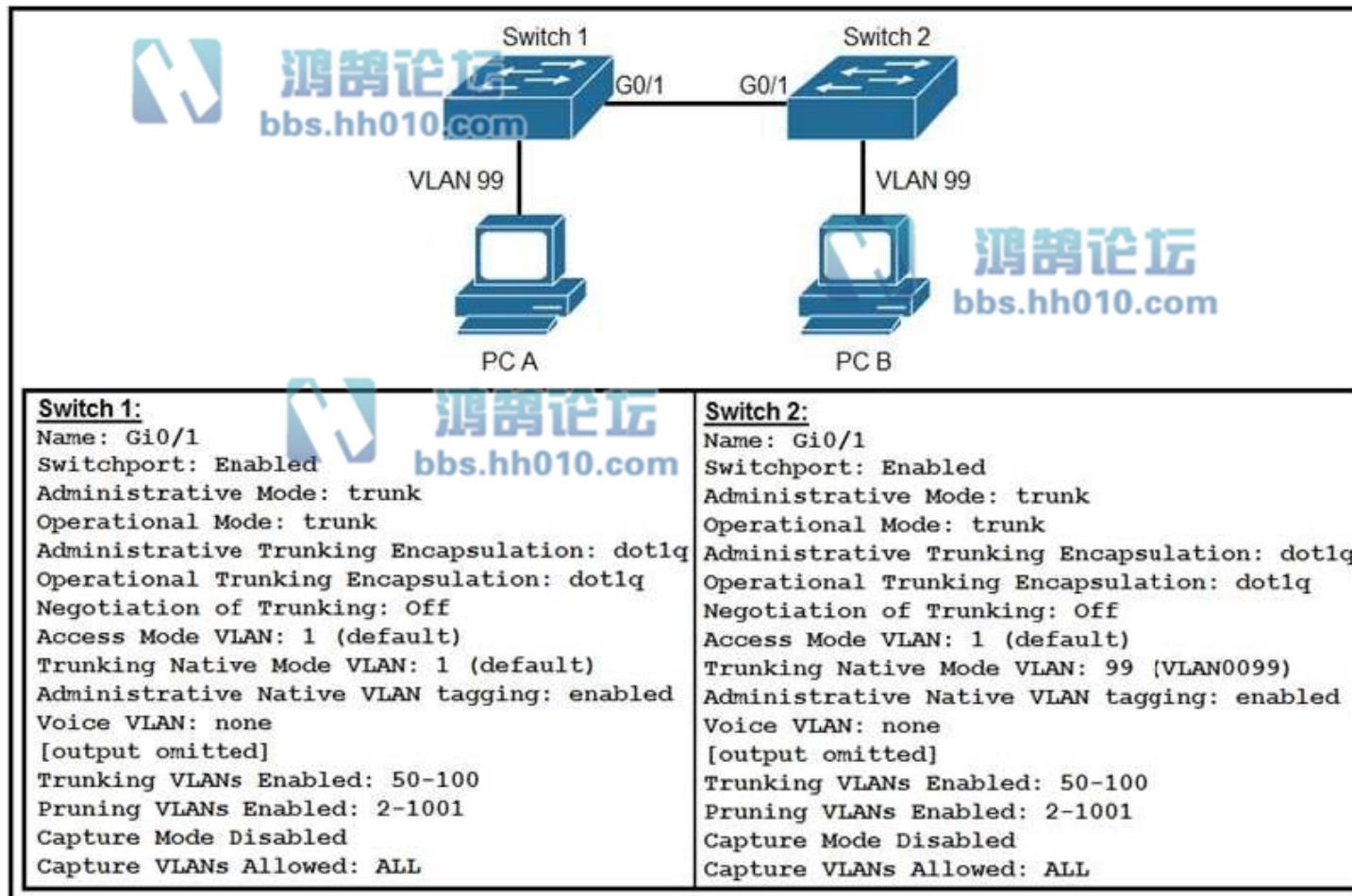
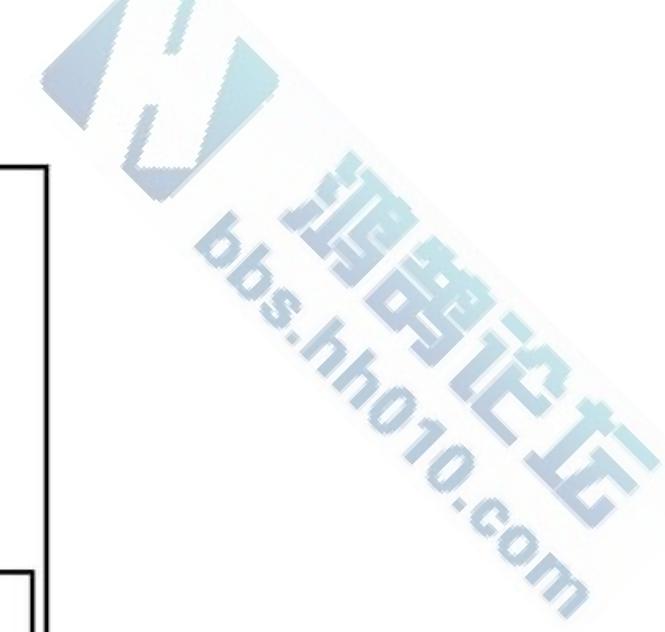
Correct Answer: BE

Section: choice

Explanation

Explanation/Reference:

QUESTION 81



Refer to the Exhibit. After the switch configuration the ping test fails between PC A and PC B Based on the output for switch 1. Which error must be corrected?

- A. There is a native VLAN mismatch
- B. Access mode is configured on the switch ports.
- C. The PCs are in the incorrect VLAN
- D. All VLANs are not enabled on the trunk

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 82

Which action is taken by a switch port enabled for PoE power classification override?

- A. When a powered device begins drawing power from a PoE switch port a syslog message is generated
- B. As power usage on a PoE switch port is checked data flow to the connected device is temporarily paused
- C. If a switch determines that a device is using less than the minimum configured power it assumes the device has failed and disconnects
- D. If a monitored port exceeds the maximum administrative value for power, the port is shutdown and err-disabled

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

The IEEE 802.3af standard contains no provision for adjustment of the power allocation. 802.3af-compliant PDs that support CDP can use CDP to override the IEEE 802.3af power classification.

The WS-F6K-48-AF PoE daughtercard or the PoE daughtercard on the WS-X6148E-GE-45AT switching module support these inline power IEEE 802.3af power classification override features:

- Power use measurement—The ability to accurately measure the power provided by the port to the powered device.
- Power policing—The ability to monitor power usage on a port.

With power measurement and policing, you can safely override the IEEE 802.3af power classification of a device that requires a power level at the lower end of its IEEE power classification range.

PoE monitoring and policing compares the power consumption on ports with the administrative maximum value (either a configured maximum value or the port's default value). If the power consumption on a monitored port exceeds the administrative maximum value, the following actions occur:

- A syslog message is issued.
- The monitored port is shut down and error-disabled.
- The allocated power is freed.

QUESTION 83

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

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

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 84

Refer to the exhibit. Which password must an engineer use to enter the enable mode?

```
Atlanta#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Atlanta(config)#aaa new-node1
Atlanta(config)#aaa authentication login default local
Atlanta(config)#line vty 0 4
      -line)#login authentication default
      -line)#exit
Atlanta(config)#username ciscoadmin password adminadmin123
Atlanta(config)#username ciscoadmin privilege 15
Atlanta(config)#enable password cisco123
Atlanta(config)#enable secret testing1234
Atlanta(config)#end
```

- A. adminadmin123
- B. default
- C. testing 1234
- D. cisco123

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 85

Which QoS Profile is selected in the GUI when configuring a voice over WLAN deployment?

- A. Bronze
- B. Platinum
- C. Silver
- D. Gold

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/81831-qos-wlclap.html>

QUESTION 86

A router running EIGRP has learned the same route from two different paths.Which parameter does the router use to select the best path?

- A. cost
- B. administrative distance
- C. metric
- D. as-path

Correct Answer: C

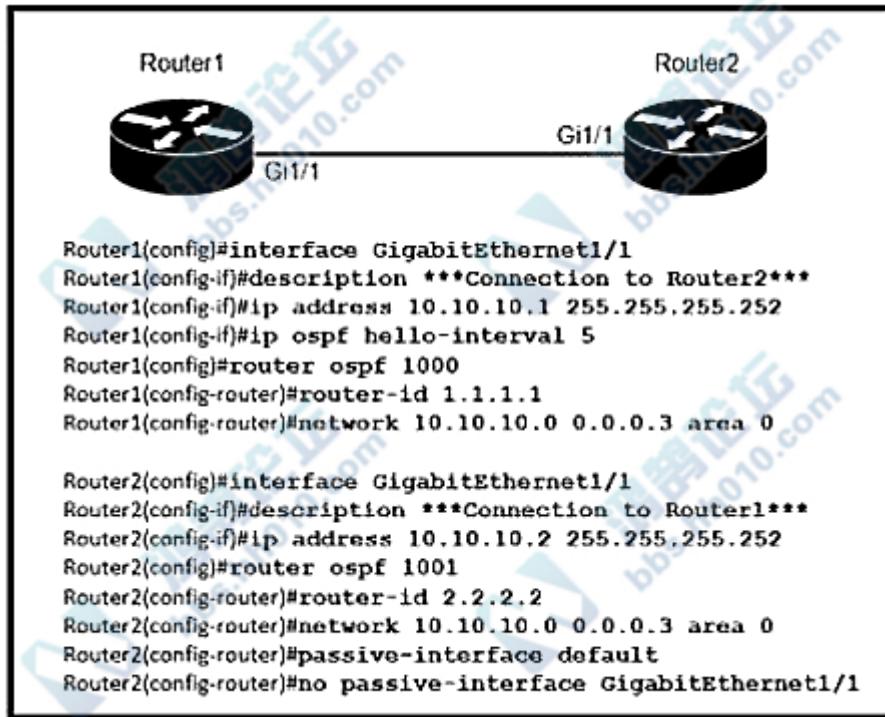
Section: choice

Explanation

Explanation/Reference:

QUESTION 8

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



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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 88

How do TCP and UDP differ in the way they provide reliability for delivery of packets?

- A. TCP does not guarantee delivery or error checking to ensure that there is no corruption of data; UDP provides message acknowledgement and retransmits data if lost.
- B. TCP provides flow control to avoid overwhelming a receiver by sending too many packets at once; UDP sends packets to the receiver in a continuous stream without checking for sequencing.
- C. TCP uses windowing to deliver packets reliably; UDP provides reliable message transfer between hosts by establishing a three-way handshake
- D. TCP is a connectionless protocol that does not provide reliable delivery of data; UDP is a connection-oriented protocol that uses sequencing to provide reliable delivery.

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 89

Which output displays a JSON data representation?

- A.

```
{  
  "response": {  
    "taskId": {},  
    "url": "string"  
},  
  "version": "string"  
}
```

- B. {
 "response"- {
 "taskId"- {},
 "url"- "string"
 },
 "version"- "string"
}

C. {
 "response": {
 "taskId": {},
 "url": "string"
 },
 "version": "string"
}

D. {
 "response". {
 "taskId". {};
 "url". "string"
 };
 "version". "string"
}

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 90

```
R1#show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
    172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S  172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O  172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23 Serial0/0/1
D  172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25 Serial0/0/1
    209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C  209.165.200.248/30 is directly connected, Serial0/0/0
L  209.165.200.249/32 is directly connected, Serial0/0/0
C  209.165.200.252/30 is directly connected, Serial0/0/1
L  209.165.200.253/32 is directly connected, Serial0/0/1
```

Refer to the exhibit. With which metric was the route to host 172.16.0.202 learned?

- A. 0
- B. 110
- C. 38443
- D. 3184439

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 91

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 92

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 93

Refer to the exhibit. Router R1 Fa0/0 cannot ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?



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

Gateway of last resort is not set

  10.0.0.0/24 is subnetted, 1 subnets
C    10.10.0.0 is directly connected, FastEthernet0/0
```

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

Gateway of last resort is not set

  20.0.0.0/24 is subnetted, 1 subnets
C    20.20.20.0 is directly connected, FastEthernet0/1
  10.0.0.0/24 is subnetted, 1 subnets
C    10.10.0.0 is directly connected, FastEthernet0/0
```

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

Gateway of last resort is not set

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

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

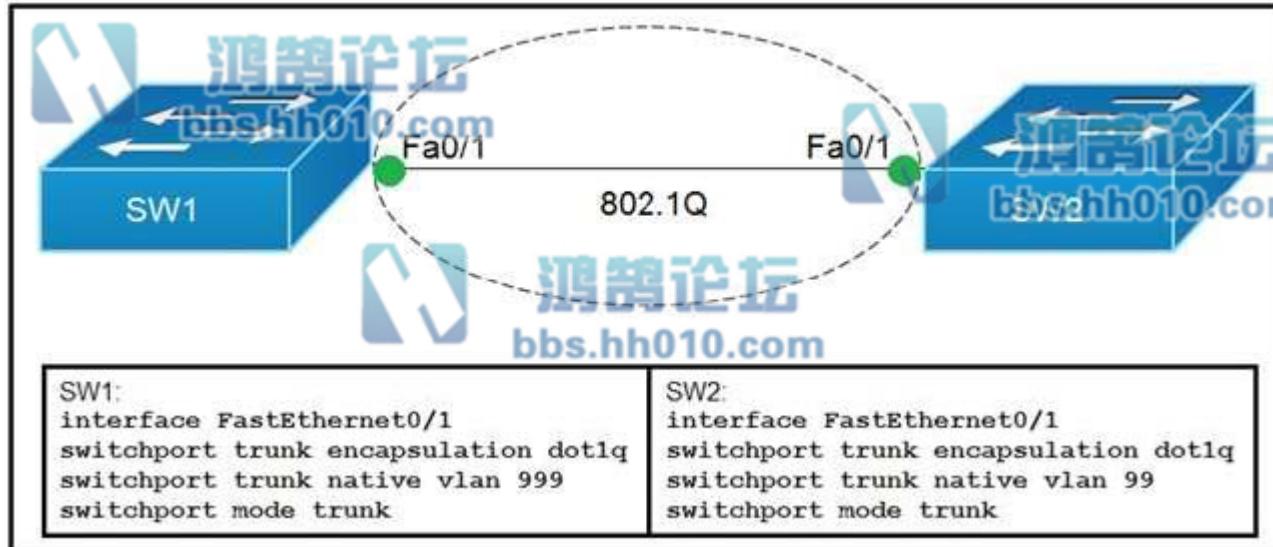
Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 94



Refer to Exhibit. Which action do the switches take on the trunk link?

- A. The trunk does not form and the ports go into an err-disabled status.
- B. The trunk forms but the mismatched native VLANs are merged into a single broadcast domain.
- C. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link.
- D. The trunk forms but VLAN 99 and VLAN 999 are in a shutdown state.

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 95

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 96

Two switches are connected and using Cisco Dynamic Trunking Protocol SW1 is set to Dynamic Desirable What is the result of this configuration?

- A. The link is in a downstate.
- B. The link is in an error disables state
- C. The link becomes an access port.
- D. The link becomes a trunk port.

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 97

Router#

**Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone,
D - Remote, C - CVTA, M - Two-port Mac Relay**

Device ID	Local Interface	Holddtime	Capability	Platform	Port ID
10.1.1.2	Gig 37/3	176	R I	CPT 600	Gig 36/41
10.1.1.2	Gig 37/1	174	R I	CPT 600	Gig 36/43
10.1.1.2	Gig 36/41	134	R I	CPT 600	Gig 37/3
10.1.1.2	Gig 36/43	134	R I	CPT 600	Gig 37/1
10.1.1.2	Ten 3/2	132	R I	CPT 600	Ten 4/2
10.1.1.2	Ten 4/2	174	R I	CPT 600	Ten 3/2

Refer to the exhibit. Which command provides this output?

- A. show ip route
- B. show ip interface
- C. show interface
- D. show cdp neighbor

Correct Answer: D

Section: choice

Explanation:

Explanation/Reference:

QUESTION 98

```
Gateway of last resort is 10.12.0.1 to network 0.0.0.0

O*K2 0.0.0.0/0 [110/1] via 10.12.0.1, 00:00:01, GigabitEthernet0/0
    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C      10.0.0.0/24 is directly connected, GigabitEthernet0/0
L      10.0.0.2/32 is directly connected, GigabitEthernet0/0
C      10.13.0.0/24 is directly connected, GigabitEthernet0/1
L      10.13.0.2/32 is directly connected, GigabitEthernet0/1
```

Refer to the exhibit. If configuring a static default route on the router with the **ip route 0.0.0.0 0.0.0.0 10.13.0.1 120** command, how does the router respond?

- A. It ignores the new static route until the existing OSPF default route is removed
- B. It immediately replaces the existing OSPF route in the routing table with the newly configured static route
- C. It starts load-balancing traffic between the two default routes
- D. It starts sending traffic without a specific matching entry in the routing table to Gigabit Ethernet0/1

Correct Answer: A

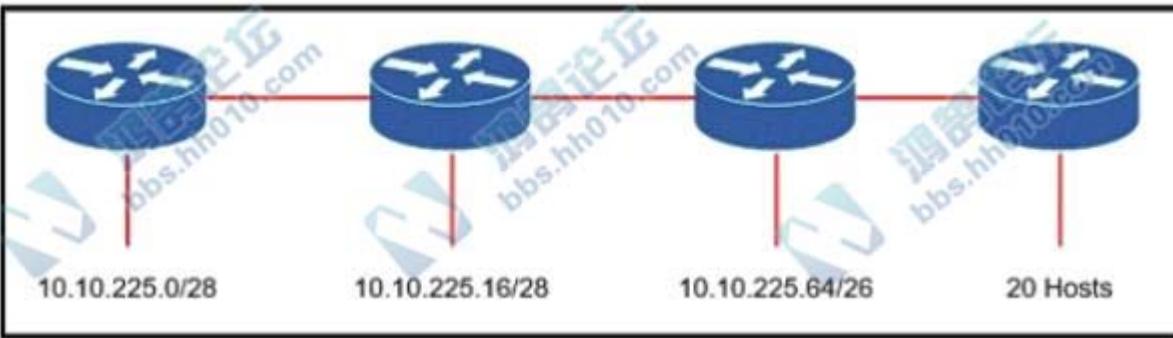
Section: choice

Explanation

Explanation/Reference:

QUESTION 99

Refer to the exhibit. An engineer must add a subnet for a new office that will add 20 users to the network. Which IPv4 network and subnet mask combination does the engineer assign to minimize wasting addresses?



- A. 10.10.225.48 255.255.255.240
- B. 10.10.225.32 255.255.255.240
- C. 10.10.225.48 255.255.255.224
- D. 10.10.225.32 255.255.255.224

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 100

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 101

which command automatically generates an IPv6 address from a specified IPv6 prefix and MAC address of an interface?

- A. ipv6 address dhcp
- B. ipv6 address 2001:DB8:5:112::/64 eui-64
- C. ipv6 address autoconfig
- D. ipv6 address 2001:DB8:5:112::2/64 link-local

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 102

A corporate office uses four floors in a building

- >Floor 1 has 24 users
- >Floor 2 has 29 users
- >Floor 3 has 28 users
- >Floor 4 has 22 users

Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration?

- A. 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor
- B. 192.168.0.0/26 as summary and 192.168.0.0/29 for each floor
- C. 192.168.0.0/24 as summary and 192.168.0.0/28 for each floor
- D. 192.168.0.0/23 as summary and 192.168.0.0/25 for each floor

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 103

By default, how does EIGRP determine the metric of a route for the routing table?

- A. It uses the bandwidth and delay values of the path to calculate the route metric.
- B. It uses a default metric of 10 for all routes that are learned by the router
- C. It counts the number of hops between the receiving and destination routers and uses that value as the metric.
- D. It uses a reference bandwidth and the actual bandwidth of the connected link to calculate the route metric.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 104

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

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

Correct Answer: AE

Section: choice

Explanation

Explanation/Reference:

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONSOLIDATED/b_cg74_CONSOLIDATED_chapter_01010001.html

QUESTION 105

What is the primary difference between AAA authentication and authorization?

- A. Authentication verifies a username and password, and authorization handles the communication between the authentication agent and the user database
- B. Authentication identifies a user who is attempting to access a system, and authorization validates the users password
- C. Authentication identifies and verifies a user who is attempting to access a system, and authorization controls the tasks the user can perform.
- D. Authentication controls the system processes a user can access and authorization logs the activities the user initiates

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 106

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



- A. R2 is using the passive-interface default command

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 107

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		

Refer to the exhibit. 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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 108

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 109

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

- A. It only supports auto-discovery of network elements in a green field deployment.
- B. Its modular design allows someone to implement different versions to meet the specific needs of an organization
- C. It abstracts policy from the actual device configuration
- D. It does not support high availability of management functions when operating in cluster mode

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 110

What are two southbound APIs? (Choose two)

- A. OpenFlow
- B. NETCONF

- C. Thrift
- D. CORBA
- E. DSC

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

QUESTION 111

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

Refer to the exhibit. What is the effect of this configuration?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 112

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

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

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

QUESTION 113

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 114

How does CAPWAP communicate between an access point in local mode and a WLC?

- A. The access point must not be connected to the wired network, as it would create a loop
- B. The access point must directly connect to the WLC using a copper cable.
- C. The access point must be connected to the same switch as the WLC.
- D. The access point has the ability to link to any switch in the network, assuming connectivity to the WLC.

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 115

Refer to the exhibit which action is expected from SW1 when the untagged frame is received on the GigabitEthernet0/1 interface ?

```
SW1#show run int gig 0/1
interface GigabitEthernet0/1
  switchport access vlan 11
  switchport trunk allowed vlan 1-10
  switchport trunk encapsulation dot1q
  switchport trunk native vlan 5
  switchport mode trunk
  speed 1000
  duplex full
```

- A. The frame is dropped
- B. The frame is processed in VLAN 5
- C. The frame is processed in VLAN 11
- D. The frame is processed in VLAN 1

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 116

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-2/configguide/b_cg82/b_cg82_chapter_010101011.html

QUESTION 117

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 118

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. SSID
- E. Profile name

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

QUESTION 119

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

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 120

A network engineer must back up 20 network router configurations globally within a customer environment. Which protocol allows the engineer to perform this function using the Cisco IOS MIB?

- A. ARP
- B. SNMP
- C. SMTP
- D. CDP

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 121

Which two encoding methods are supported by REST APIs? (Choose two)

- A. YAML
- B. JSON
- C. EBCDIC
- D. SGML
- E. XML

Correct Answer: BE

Section: choice

Explanation

Explanation/Reference:

QUESTION 122

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

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

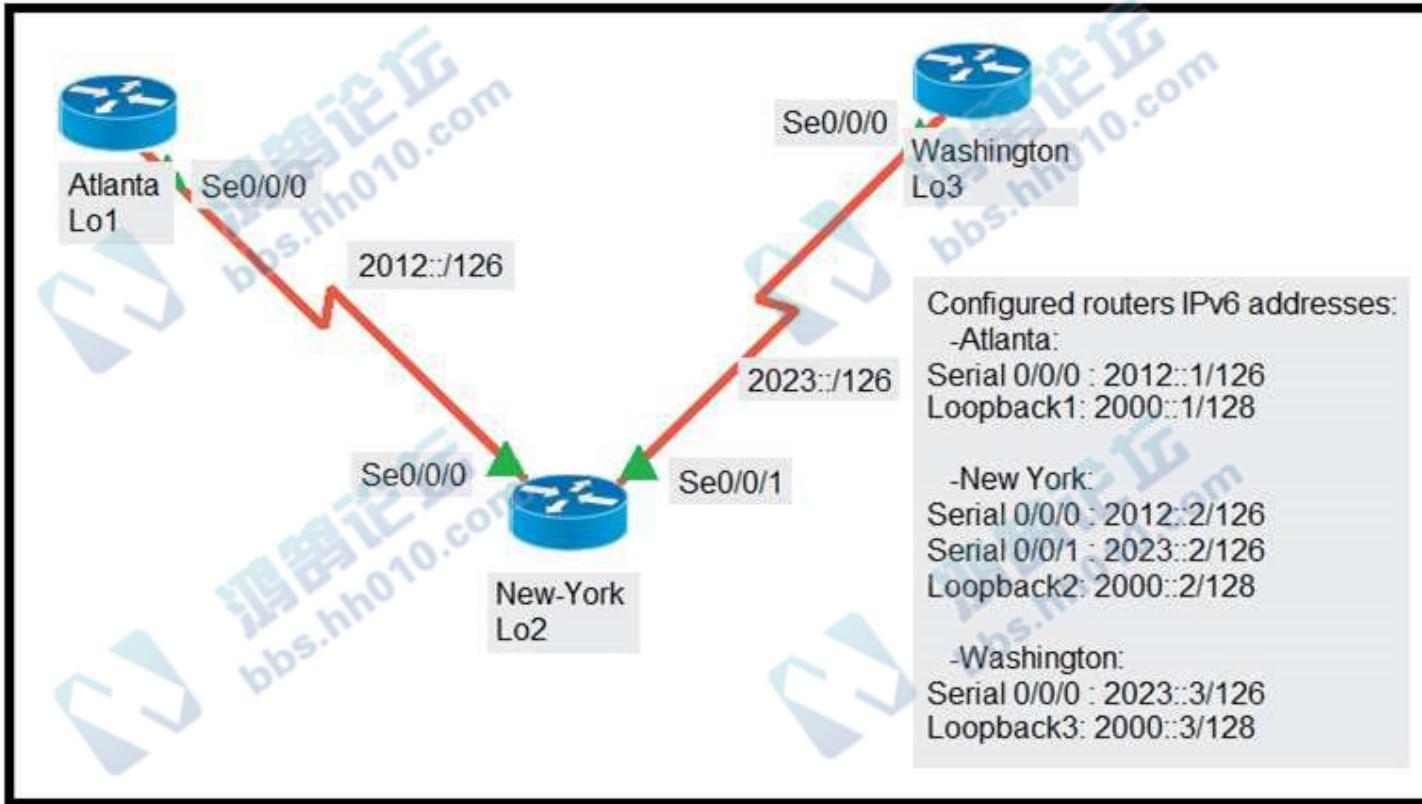
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 123



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

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

QUESTION 124

Which two capacities of Cisco DNA Center make it more extensible? (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

Correct Answer: BD

Section: choice

Explanation

Explanation/Reference:

QUESTION 125

SW2

```
vtp domain cisco      鸿鹄论坛  
vtp mode transparent  
vtp password ciscotest  
interface fastethernet0/1  
  description connection to sw1  
  switchport mode trunk  
  switchport trunk encapsulation dot1q
```



Refer to Exhibit. How does SW2 interact with other switches in this VTP domain?

- A. It processes VTP updates from any VTP clients on the network on its access ports.
- B. It receives updates from all VTP servers and forwards all locally configured VLANs out all trunk ports
- C. It forwards only the VTP advertisements that it receives on its trunk ports.
- D. It transmits and processes VTP updates from any VTP Clients on the network on its trunk ports

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 126

Which mode allows access points to be managed by Cisco Wireless LAN Controllers?

- A. autonomous
- B. lightweight
- C. bridge
- D. mobility express

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 127

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.

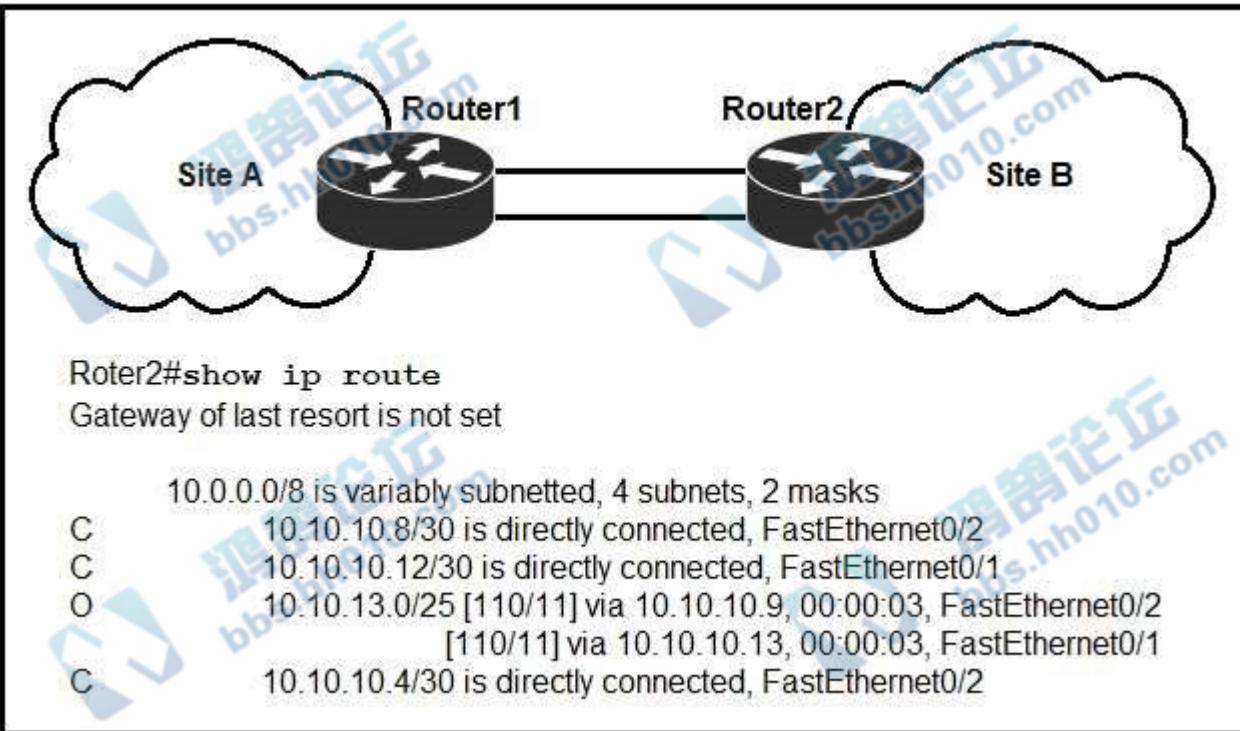
Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 128



Refer to the exhibit. If OSPF is running on this network, how does Router 2 handle traffic from Site B to 10.10.13.128/25 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

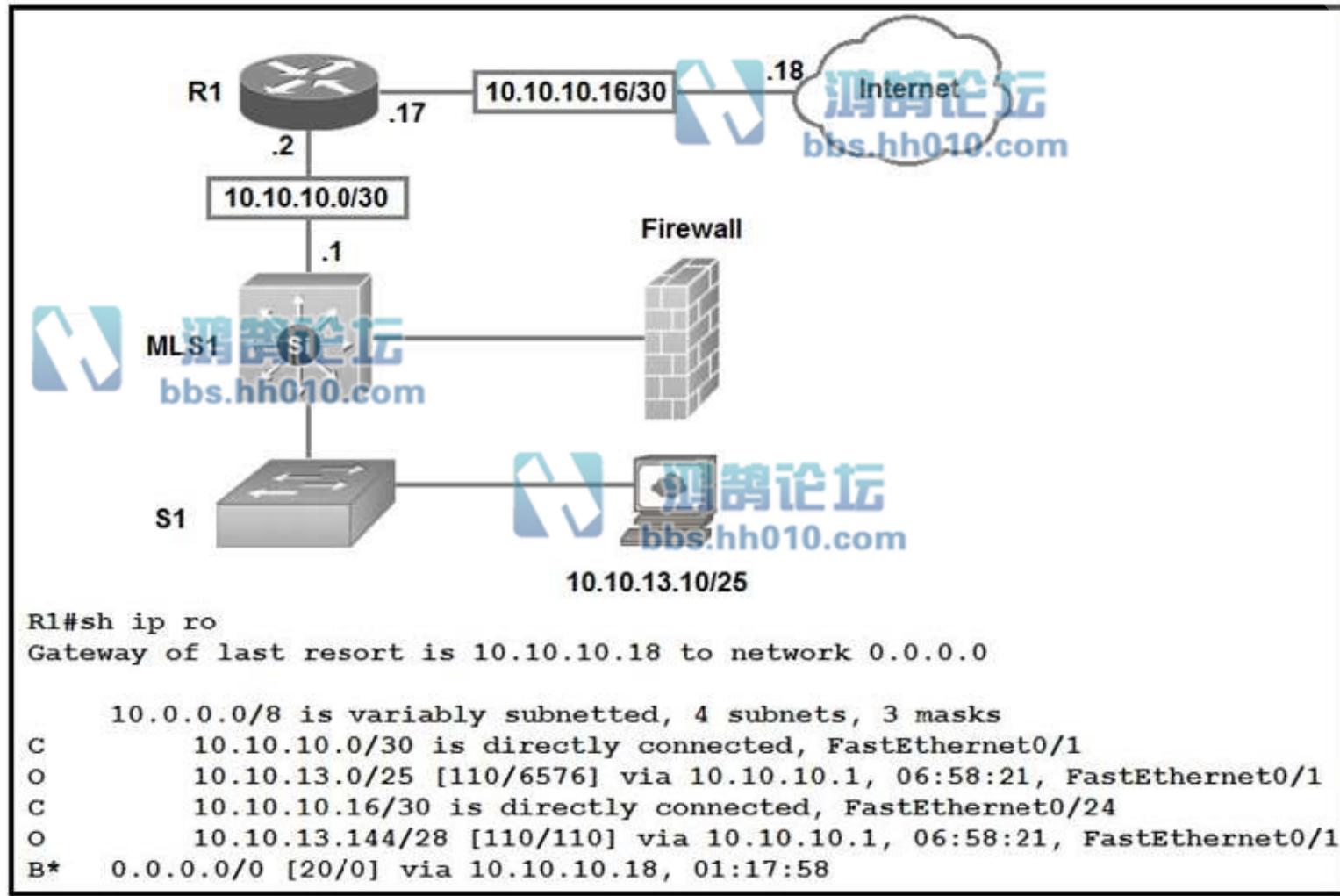
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 129



Refer to the exhibit. Which type of route does R1 use to reach host 10.10.13.10/32?

- A. default route
- B. network route
- C. host route
- D. floating static route

Correct Answer: B

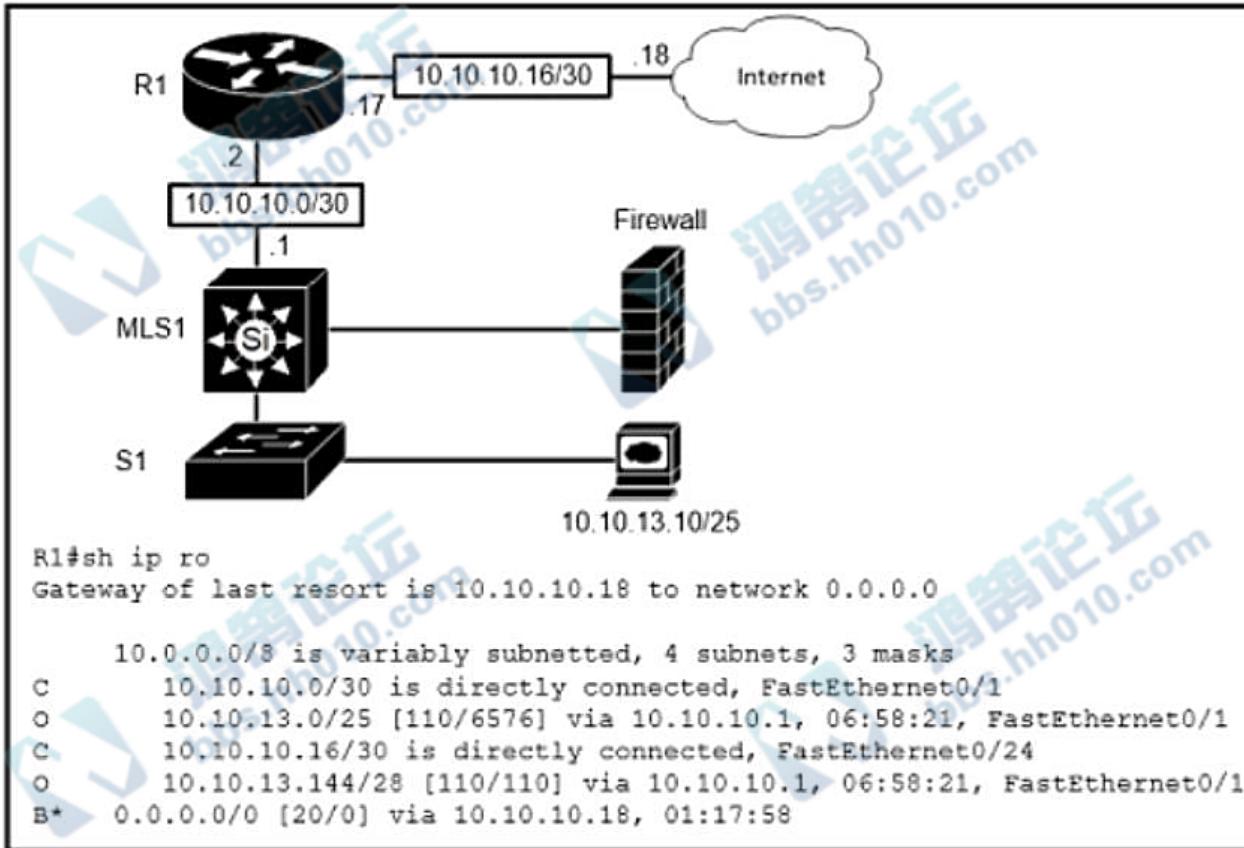
Section: choice

Explanation

Explanation/Reference:

QUESTION 130

Refer to the exhibit. Which route type is configured to reach the internet?



- A. network route

- B. floating static route
- C. host route
- D. default route

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 131

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 132

Which MAC address is recognized as a VRRP virtual address?

- A. 0000.5E00.010a
- B. 0005.3711.0975
- C. 0000.0C07.AC99
- D. 0007.C070/AB01

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 133

How does Cisco DNA Center gather data from the network?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 134

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 135

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 136

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

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

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 137

If a notice-level messaging is sent to a syslog server, which event has occurred?

- A. A network device has restarted
- B. An ARP inspection has failed
- C. A routing instance has flapped

- D. A debug operation is running

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 138

How does HSRP provide first hop redundancy?

- A. It load-balances traffic by assigning the same metric value to more than one route to the same destination in the IP routing table.
- B. It load-balances Layer 2 traffic along the path by flooding traffic out all interfaces configured with the same VLAN.
- C. It forwards multiple packets to the same destination over different routed links n the data path
- D. It uses a shared virtual MAC and a virtual IP address to a group of routers that serve as the default gateway for hosts on a LAN

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 139

What is the primary effect of the **spanning-tree portfast** command?

- A. it enables BPDU messages
- B. It minimizes spanning-tree convergence time
- C. It immediately puts the port into the forwarding state when the switch is reloaded
- D. It immediately enables the port in the listening state

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 140

which IPv6 address block forwards packets to a multicast address rather than a unicast address?

- A. 2000::/3
- B. FC00::/7
- C. FE80::/10
- D. FF00::/12

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 141

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 142

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 GigabitEfiemet3/1/4 port on a switch?

```
interface GigabitEthernet3/1/4
  switchport voice vlan 50
!
```

- 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

Correct Answer: D

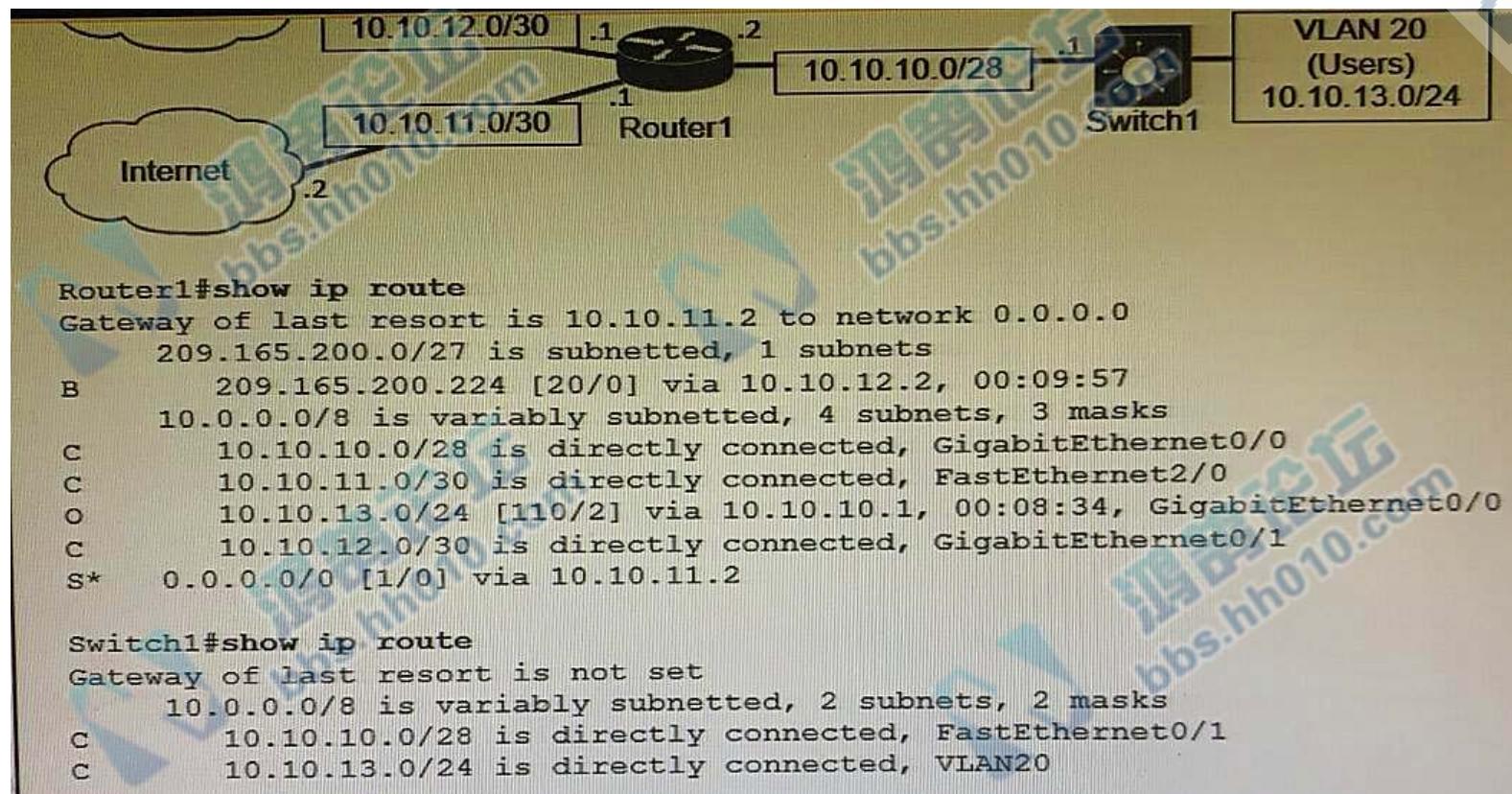
Section: choice

Explanation

Explanation/Reference:

QUESTION 143

Refer to the exhibit. which path is used by the router for internet traffic ?



- A. 209.165.200.0/27
- B. 10.10.10.0/28
- C. 0.0.0.0/0
- D. 10.10.13.0/24

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 144

Refer to the exhibit, if the network environment is operating normally, which type of device must be connected to interface fastethernet0/1?

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

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

Correct Answer: D

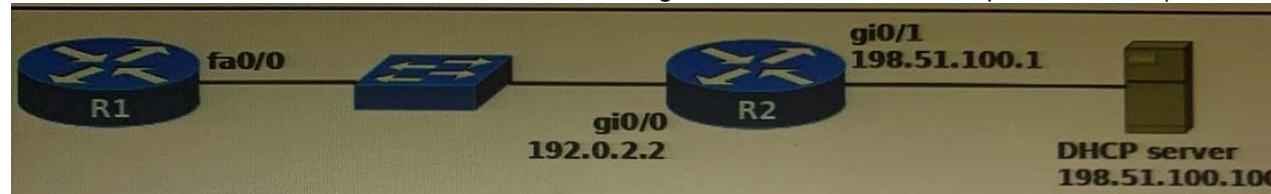
Section: choice

Explanation

Explanation/Reference:

QUESTION 145

Refer to the exhibit. An engineer deploys a topology in which R1 obtains its IP configuration from DHCP. If the switch and DHCP server configuration are complete and correct, which two sets of commands must be configured on R1 and R2 to complete the task? (choose two)



- A. R1(config)# interface fa0/0
R1(config-if)#ip address dhcp
R1(config-if)# no shutdown
- B. R1(config)# interface fa0/0
R1(config-if)#ip helper-address 192.0.2.2
- C. R2(config)# interface gi0/0
R2(config-if)#ip address dhcp



- D. R1(config)# interface fa0/0
R1(config-if)#ip helper-address 198.51.100.100
- E. R2(config)# interface gi0/0
R2(config-if)#ip helper-address 198.51.100.100

Correct Answer: AE

Section: choice

Explanation

Explanation/Reference:

QUESTION 146

In which two ways does a password manager reduce the chance of a hacker stealing a users password? (Choose two.)

- A. It automatically provides a second authentication factor that is unknown to the original user.
- B. It uses an internal firewall to protect the password repository from unauthorized access.
- C. It protects against keystroke logging on a compromised device or web site.
- D. It stores the password repository on the local workstation with built-in antivirus and anti-malware functionality
- E. It encourages users to create stronger passwords.

Correct Answer: CE

Section: choice

Explanation

Explanation/Reference:

QUESTION 147

Several new coverage cells are required to improve the Wi-Fi network of an organization. Which two standard designs are recommended? (choose two.)

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

Correct Answer: BE

Section: choice

Explanation

Explanation/Reference:

QUESTION 148

The SW1 interface g0/1 is in the down/down state. which two configurations are valid reasons for the interface conditions?(choose two)

- A. There is a duplex mismatch
- B. There is a speed mismatch
- C. There is a protocol mismatch
- D. The interface is shut down
- E. The interface is error-disabled

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

QUESTION 149

which type of IPv6 address is publicly routable in the same way as IPv4 public address?

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

Correct Answer: A

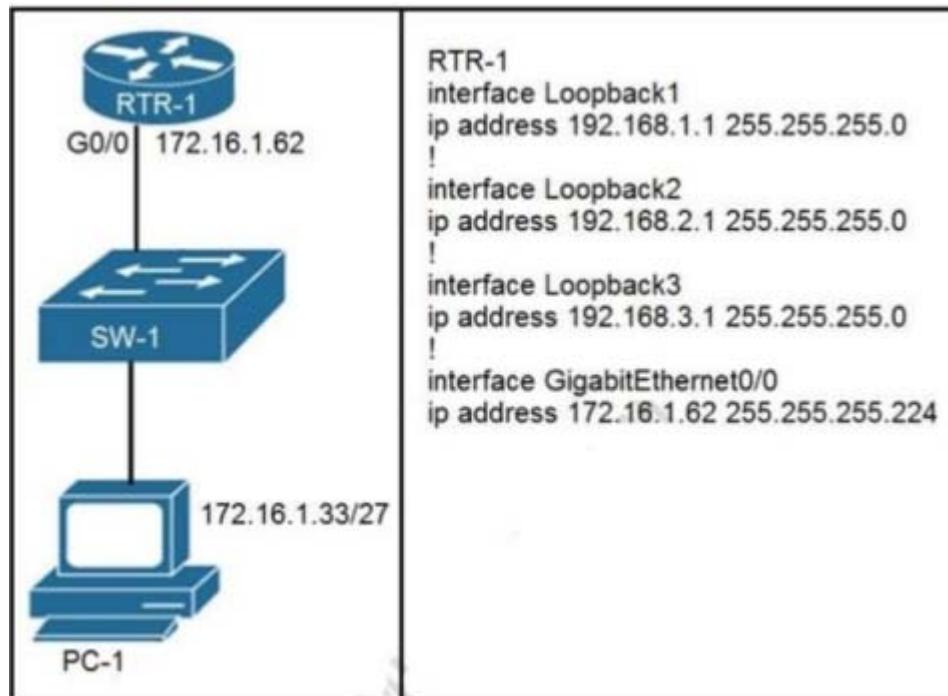
Section: choice

Explanation

Explanation/Reference:

QUESTION 150

Refer to the exhibit. which configuration on RTR-1 denies SSH access from PC-1 to any RTP-1 interface and allows all other traffic?



- A. access-list 100 deny tcp host 172.16.1.33 any eq 22
access-list 100 permit ip any any
interface GigabitEthernet0/0
ip access-group 100 in
- B. access-list 100 deny top host 172.16.1.33 any eq 22
access-list 100 permit ip any any
line vty 0 15
access-class 100 in
- C. access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any
interface GigabitEthernet0/0
ip access-group 100 in
- D. access-list 100 deny tcp host 172.16.1.33 any eq 23
access-list 100 permit ip any any
line vty 0 15
access-class 100 in

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 151

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 152

what occurs to frames during the process of frame flooding?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 153

What is the primary purpose of a First Hop Redundancy Protocol?

- A. It allows directly connected neighbors to share configuration information.
- B. It allows a router to use bridge priorities to create multiple loop-free paths to a single destination.
- C. It reduces routing failures by allowing Layer 3 load balancing between OSPF neighbors that have the same link metric.
- D. It reduces routing failures by allowing more than one router to represent itself, as the default gateway of a network.

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 154

Refer to the exhibit, what commands are needed to add a subinterface to Ethernet0/0 on R1 to allow for VLAN 20 with IP address 10.20.20.1/24?

R1:	SW1:	SW2:
<pre>interface Ethernet0/0 no ip address !</pre>	<pre>interface Ethernet0/0 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/1 switchport trunk allowed vlan 10 switchport trunk encapsulation dot1q switchport mode trunk</pre>	<pre>interface Ethernet0/1 switchport trunk encapsulation dot1q switchport mode trunk ! interface Ethernet0/2 switchport access vlan 20 switchport mode access</pre>

- A. R(config)#interface ethernet0/0
R(config)#encapsulation dot1q 20
R(config)#ip address 10.20.20.1 255.255.255.0
- B. R(config)#interface ethernet0/0.20
R(config)#encapsulation dot1q 20
R(config)#ip address 10.20.20.1 255.255.255.0
- C. R(config)#interface ethernet0/0
R(config)#ip address 10.20.20.1 255.255.255.0
- D. R(config)#interface ethernet0/0.20
R(config)#ip address 10.20.20.1 255.255.255.0

Correct Answer: B

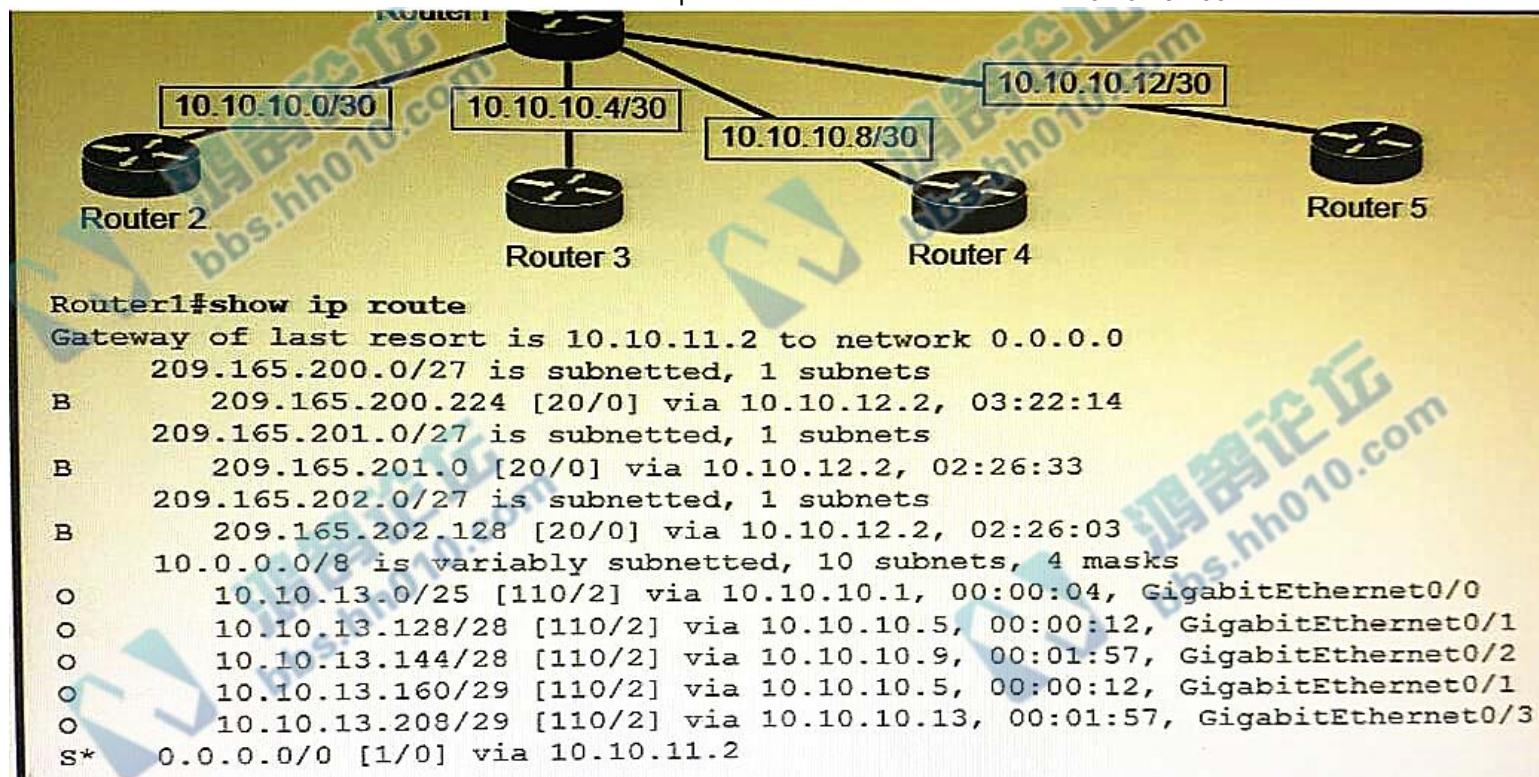
Section: choice

Explanation

Explanation/Reference:

QUESTION 155

Refer to the exhibit. To which device does Router 1 send packets that are destined to host 10.10.13.165?



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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 156

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

Select and Place:



Answer Area

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

Authentication

-
-

Authorization

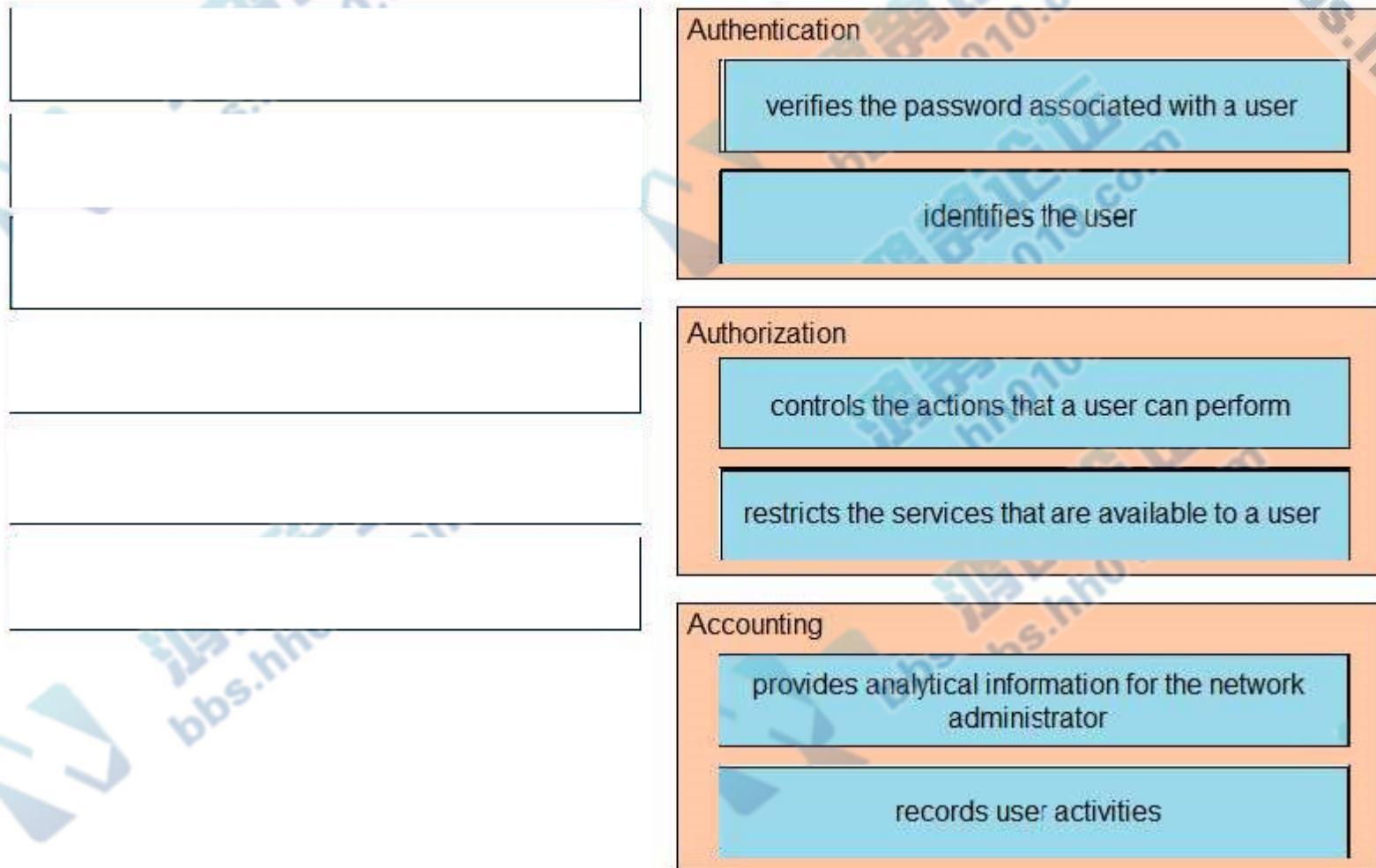
-
-

Accounting

-
-

Correct Answer:

Answer Area



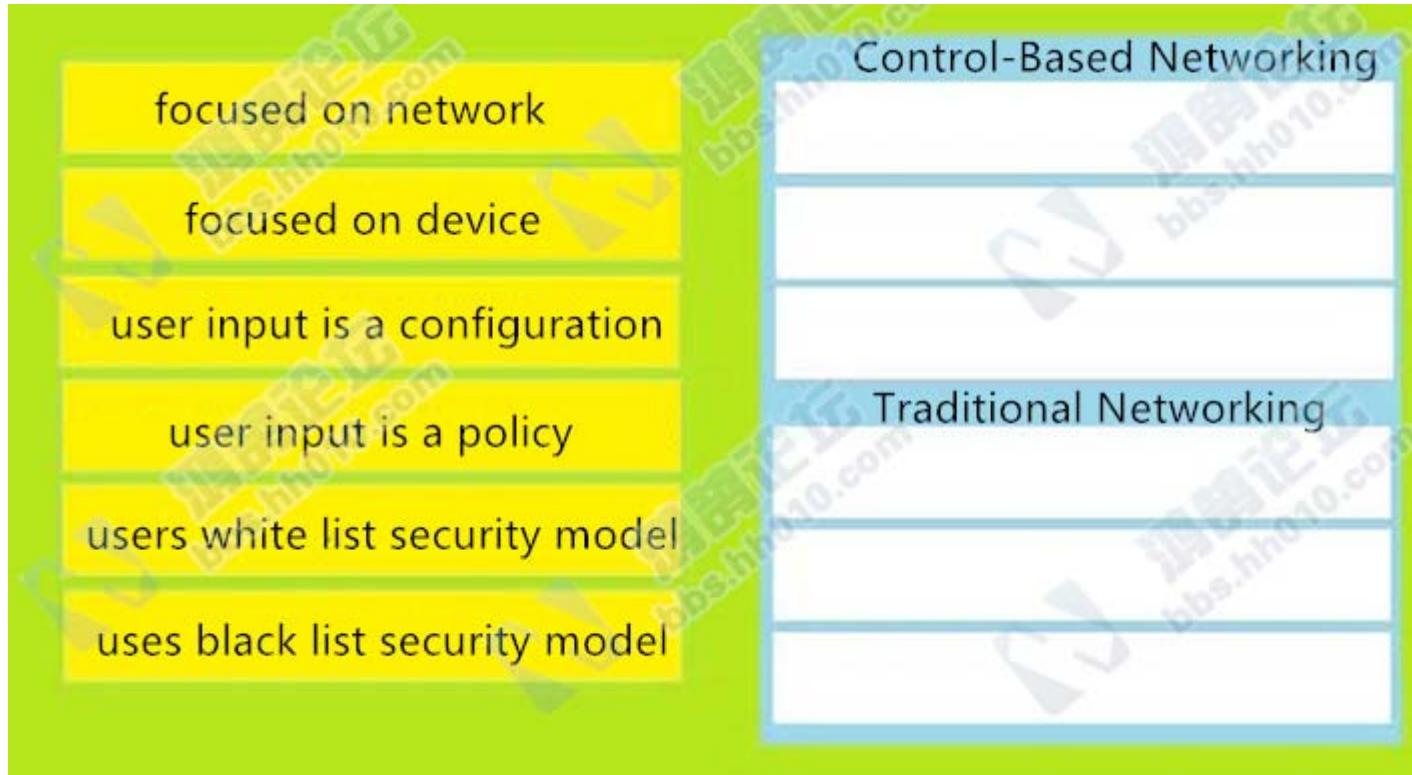
Section: drag-and-drop
Explanation

Explanation/Reference:

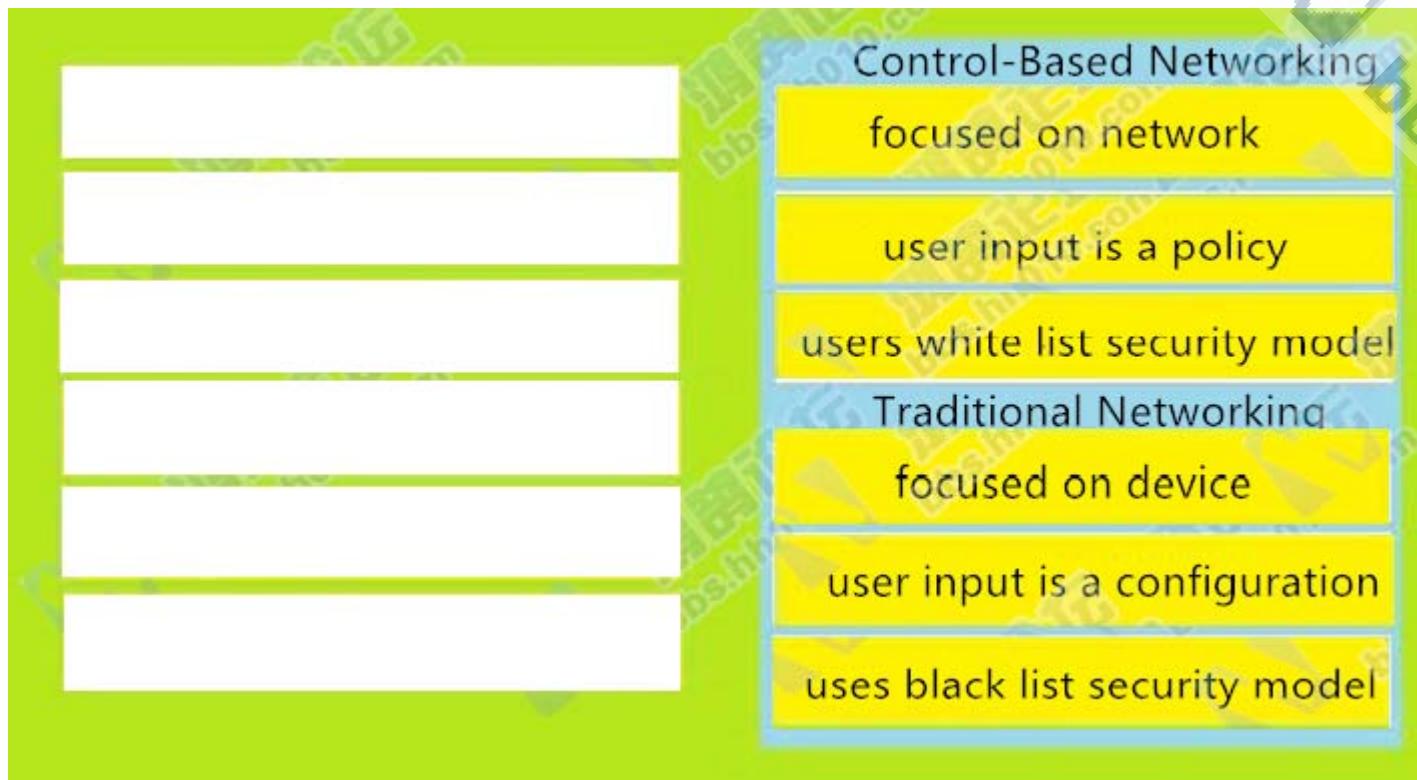
QUESTION 157

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

Select and Place:



Correct Answer:



Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 158

Drag and drop the Cisco Wireless LAN Controller security setting from the left onto the correct security mechanism categories on the right.

Select and Place:

Answer Area

- web policy
- Passthrough
- WPA+WPA2
- 802.1X

Layer 2 Security Mechanisms

-
-

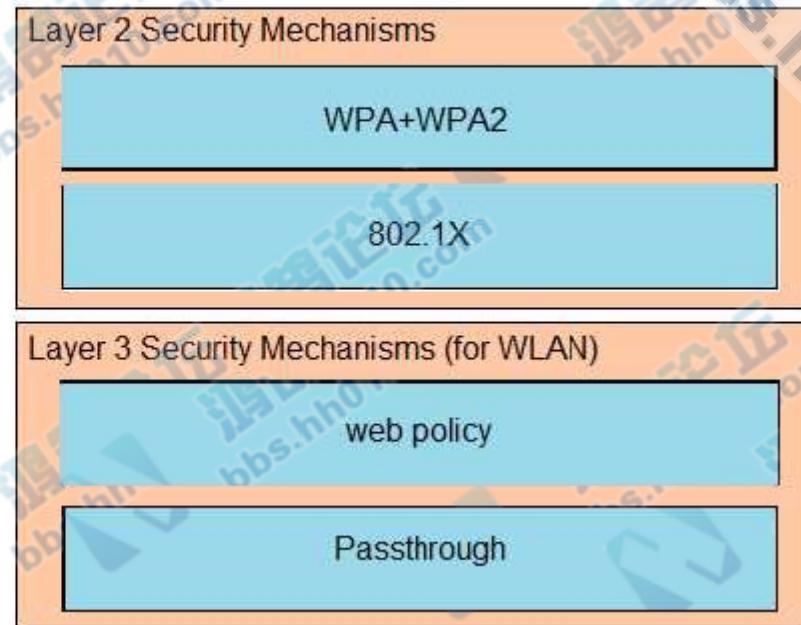
Layer 3 Security Mechanisms (for WLAN)

-
-

Correct Answer:

Answer Area

Three empty rectangular boxes for dragging and dropping answers.



Section: drag-and-drop

Explanation

Explanation/Reference:

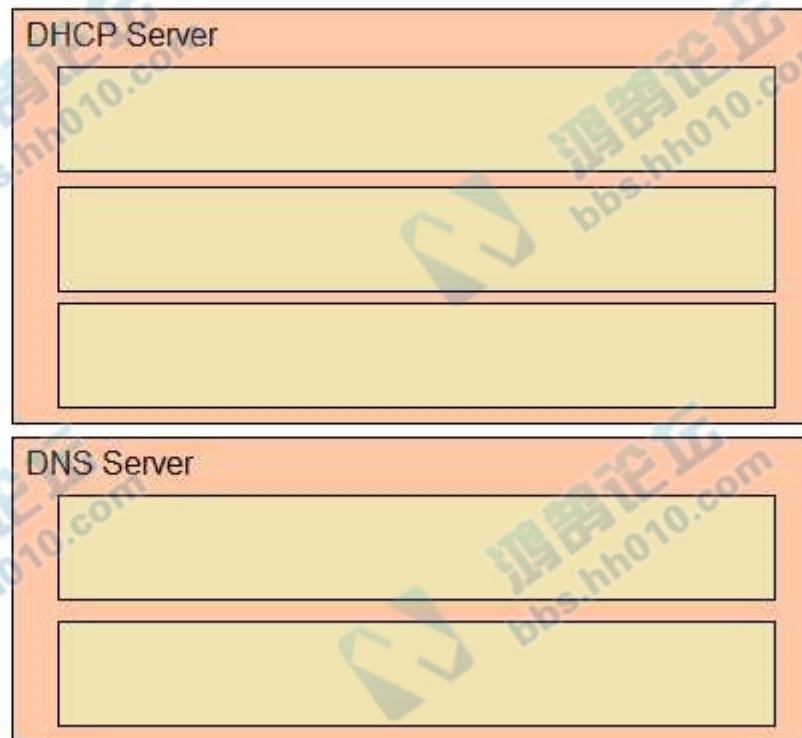
QUESTION 159

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

Select and Place:

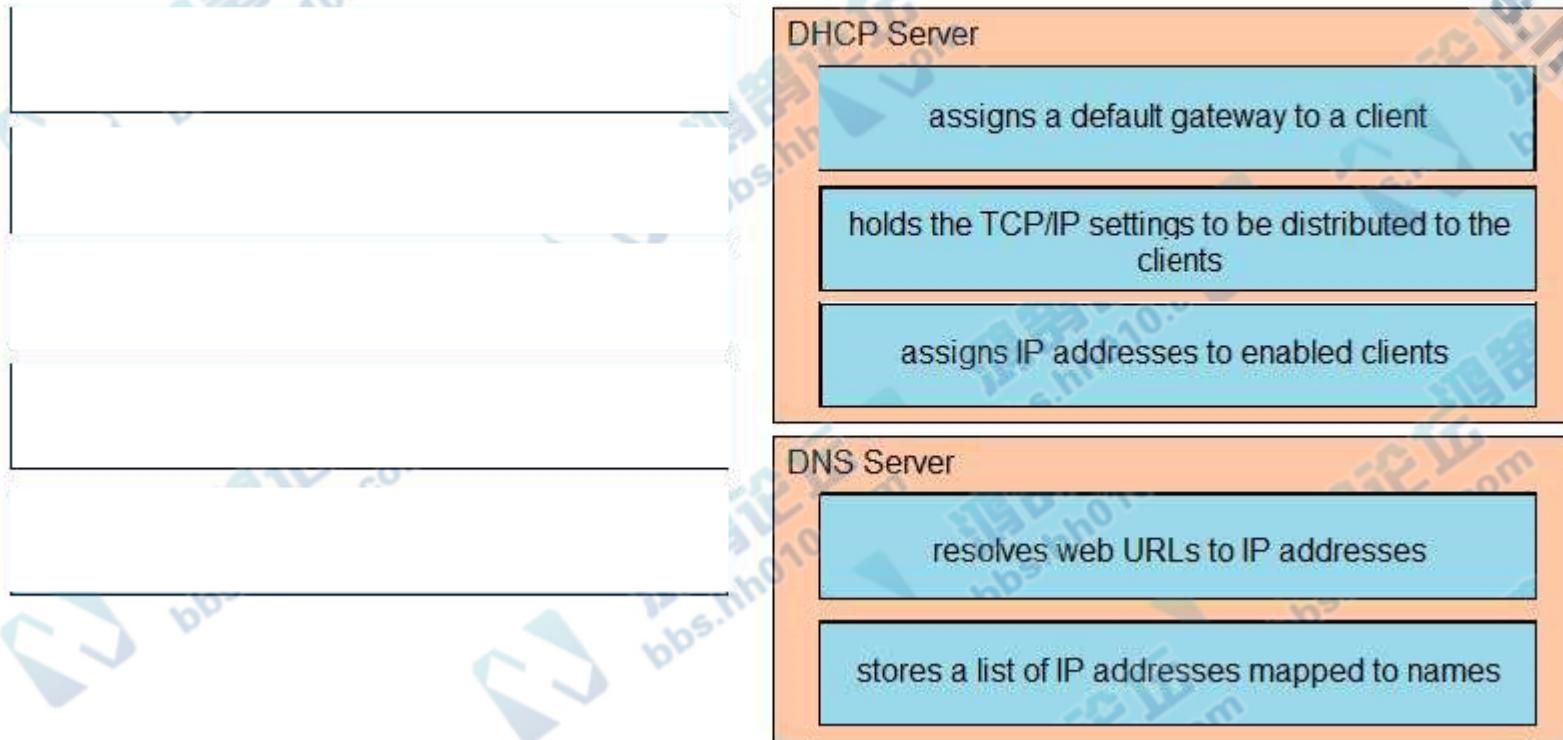
Answer Area

- resolves web URLs to IP addresses
- assigns a default gateway to a client
- holds the TCP/IP settings to be distributed to the clients
- stores a list of IP addresses mapped to names
- assigns IP addresses to enabled clients



Correct Answer:

Answer Area



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 160

A network engineer is configuring an OSPFv2 neighbor adjacency. Drag and drop the parameters from the left onto their required categories on the right. Not all parameters are used.

Select and Place:

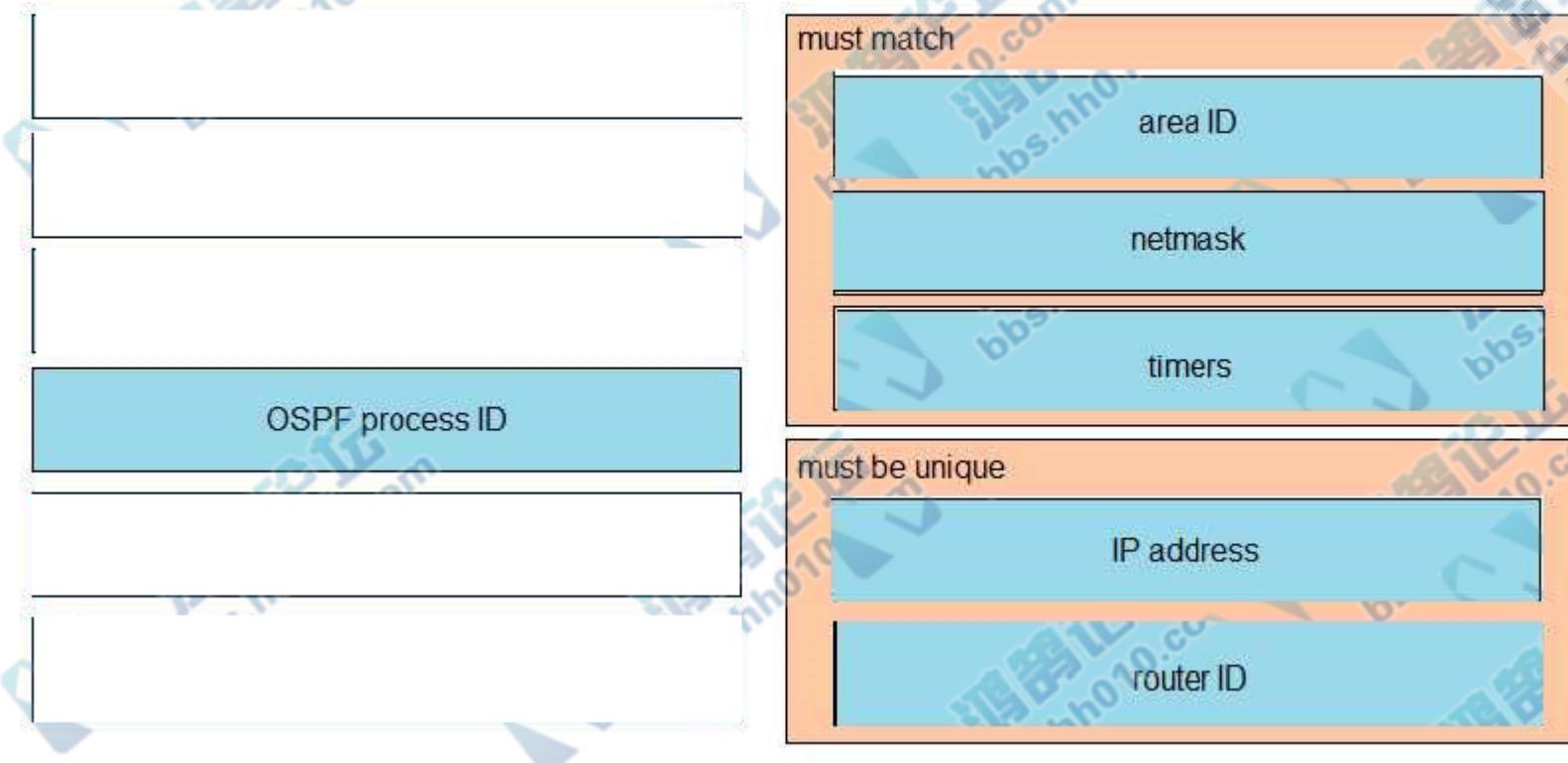
Answer Area

- area ID
- IP address
- netmask
- OSPF process ID
- router ID
- timers



Correct Answer:

Answer Area



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 161

Drag and drop the attack-mitigation techniques from the left onto the Types of attack that they mitigate on the right

Select and Place:

configure 802.1x authentication

802.1q double-tagging VLAN-hopping attack

configure DHCP snooping

MAC flooding attack

configure the native VLAN with a nondefault VLAN ID

man-in-the-middle spoofing attack

disable DTP

switch-spoofing VLAN-hopping attack

Correct Answer:

configure the native VLAN with a nondefault VLAN ID

configure 802.1x authentication

configure DHCP snooping

disable DTP

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 162

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

Select and Place:

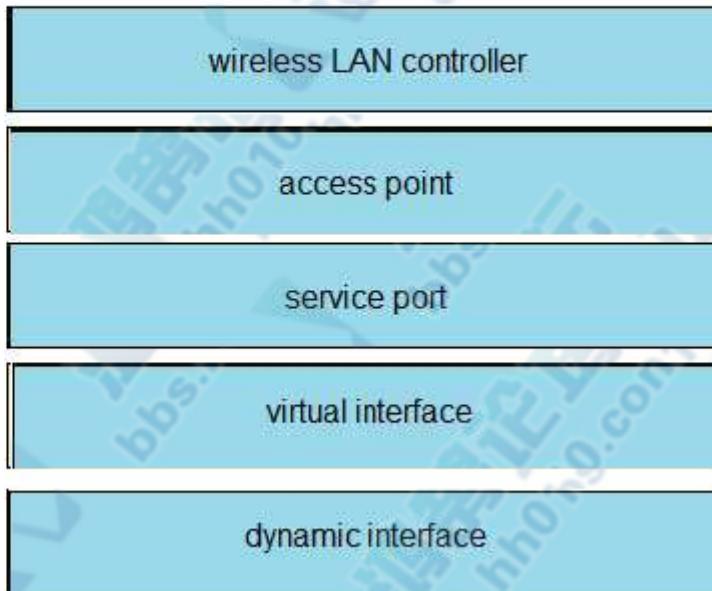
Answer Area

- access point
- virtual interface
- dynamic interface
- service port
- wireless LAN controller

- device that manages access points
- device that provides Wi-Fi devices with a connection to a wired network
- used for out of band management of a WLC
- used to support mobility management of the WLC
- applied to the WLAN for wireless client communication

Correct Answer:

Answer Area



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 163

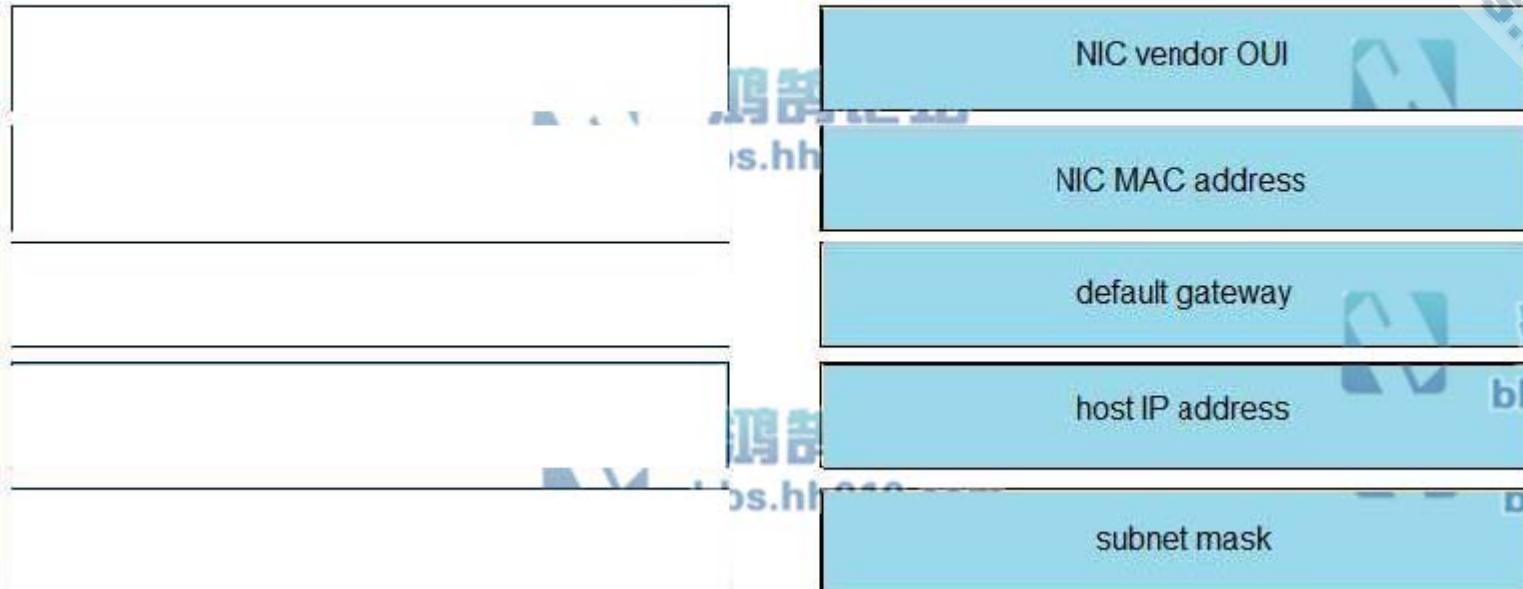
```
[root#HostTime =]# ip route  
default via 192.168.1.193 dev eth1 proto static  
192.168.1.0/26 dev sth1 proto kernel scope link src 192.168.1.200 metric 1  
  
[root#HostTime =]# ip addr show eth1  
eth1:mtu 1500 qdisc pfifo_fast qlan 1000  
    link/ether 00:0C:22:83:79:A3 brd ff:ff:ff:ff:ff:ff  
    inet 192.168.1.200/26 brd 192.168.1.255 scope global eth1  
        inet6 fe80::20c:29ff:fe89:79b3/64 scope link  
            valid_lft forever preferred_lft forever
```

Refer to the exhibit.Drag and drop the networking parameters from the left onto the correct values on the right

Select and Place:

default gateway	00:0C:22
host IP address	00:0C:22:83:79:A3
NIC MAC address	192.168.1.193
NIC vendor OUI	192.168.1.200
subnet mask	255.255.255.192

Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 164

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

Select and Place:

Answer Area

fundamental configuration elements are stored in a manifest

uses TCP port 10002 for configuration push jobs

uses Ruby for fundamental configuration elements

uses SSH for remote device communication

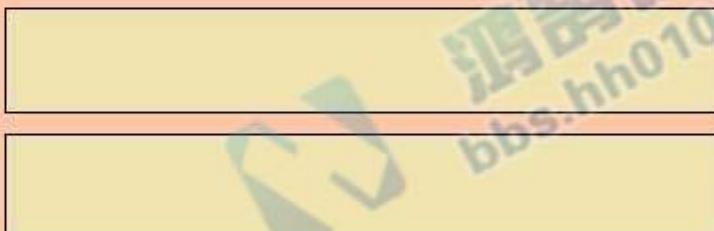
uses TCP 8140 for communication

uses YAML for fundamental configuration elements

Ansible



Chef



Puppet



Correct Answer:

Answer Area

Ansible

uses SSH for remote device communication

uses YAML for fundamental configuration elements

Chef

uses TCP port 10002 for configuration push jobs

uses Ruby for fundamental configuration elements

Puppet

fundamental configuration elements are stored in a manifest

uses TCP 8140 for communication

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 165

Drag and drop the descriptions of file-transfer protocols from the left on to the correct protocols on the right

Select and Place:

Answer Area 鸿鹄论坛
bbs.hh010.com

provides reliability when loading an IOS image upon boot up

does not require user authentication

uses port 69

uses ports 20 and 21

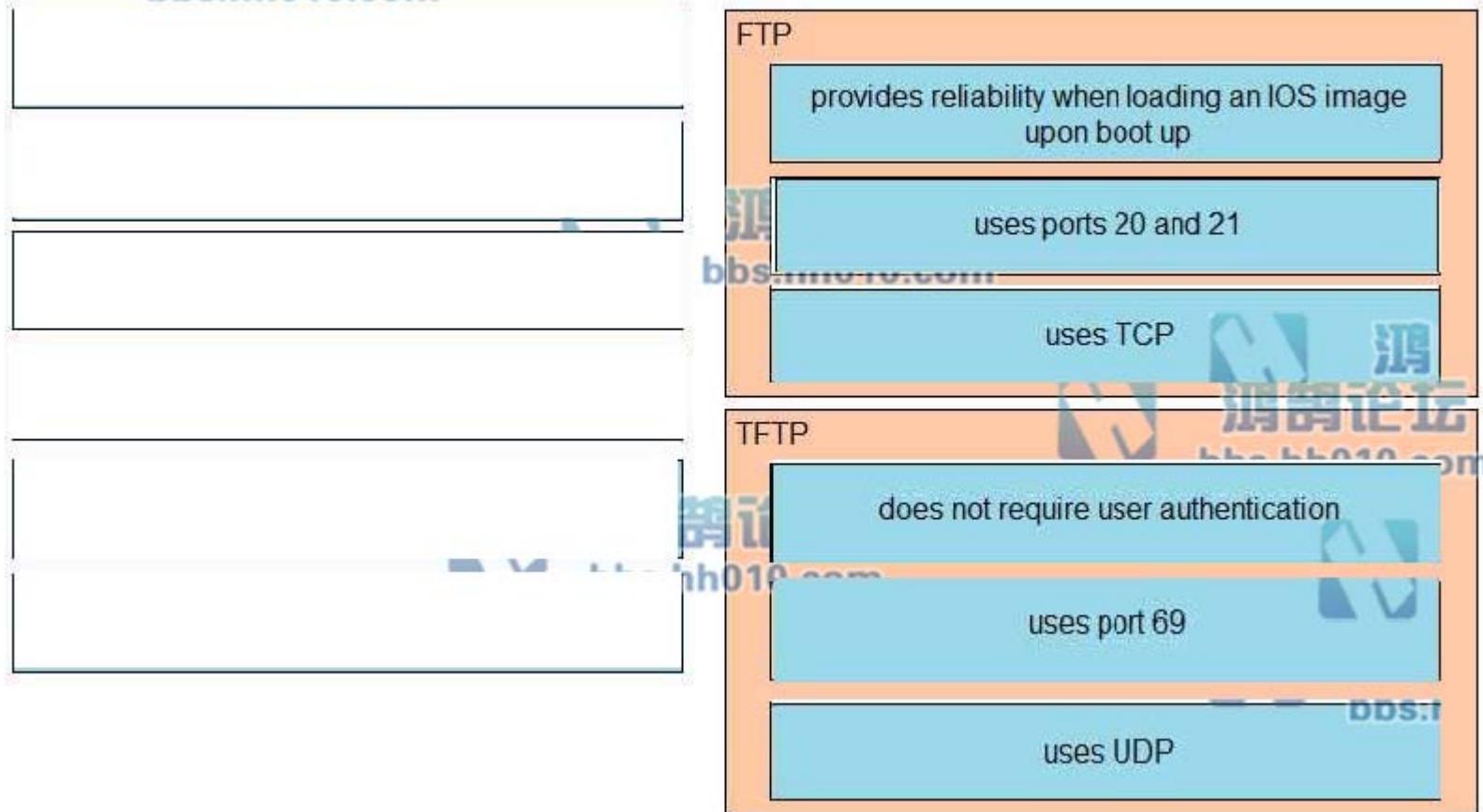
uses TCP

uses UDP

FTP

TFTP

Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 166

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

Select and Place:

Answer Area

Configure BPDU guard.

Configure dynamic ARP inspection.

Configure root guard.

Configure VACL.

802.1q double tagging

ARP spoofing

unwanted superior BPDUs

unwanted BPDUs on PortFast-enabled interfaces

Correct Answer:

Answer Area

Configure VACL.

Configure dynamic ARP inspection.

Configure root guard.

Configure BPDU guard.

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 167

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

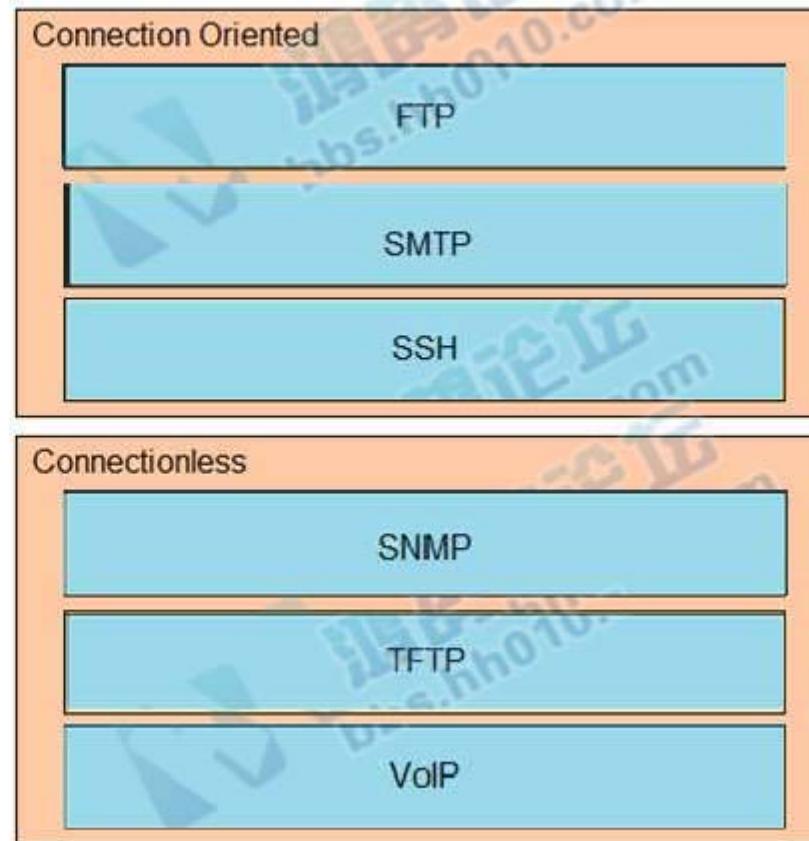
Select and Place:

Answer Area



Correct Answer:

Answer Area



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 168

drag and drag the IPV4 network subnets from the left onto the correct usable host ranges on the right

Select and Place:



鸿鹄论坛
bbs.hh010.com

172.28.228.144/18

172.28.228.144/21

172.28.228.144/23

172.28.228.144/25

172.28.228.144/29

172.28.228.1 - 172.28.229.254

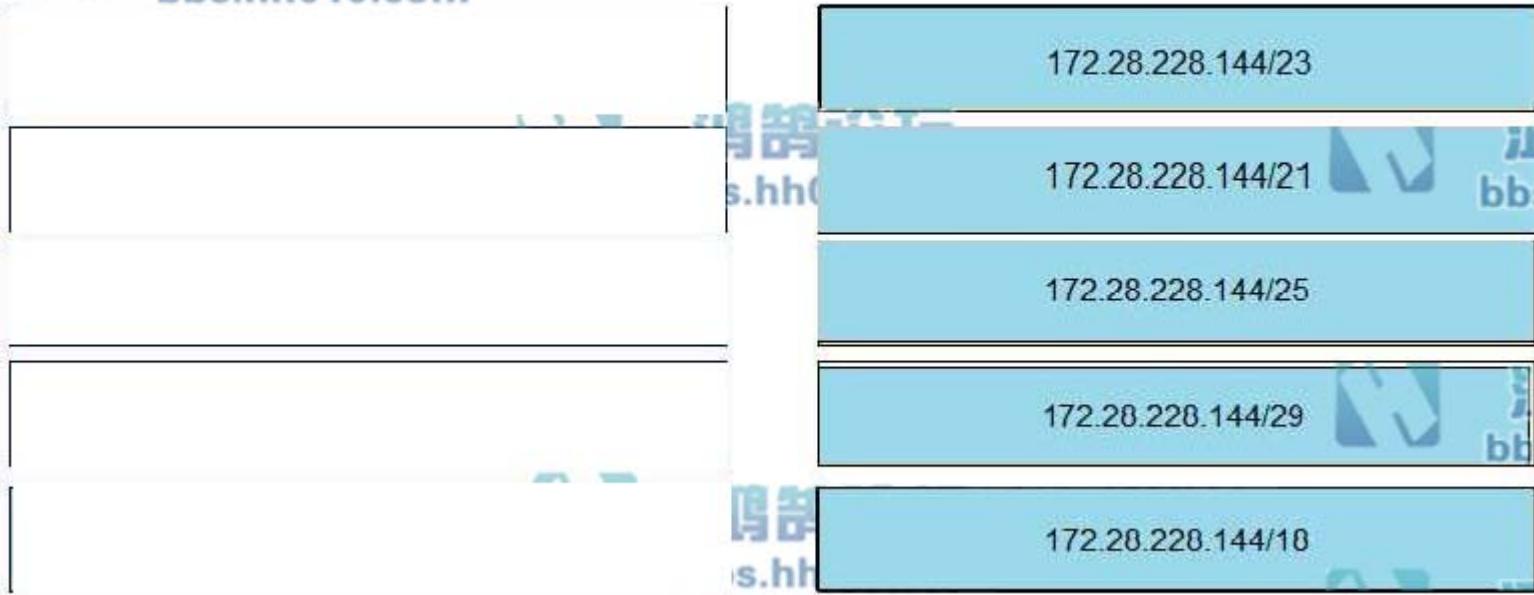
172.28.224.1 - 172.28.231.254

172.28.228.129 - 172.28.228.254

172.28.228.145 - 172.28.228.150

172.28.192.1 - 172.28.255.254

Correct Answer:

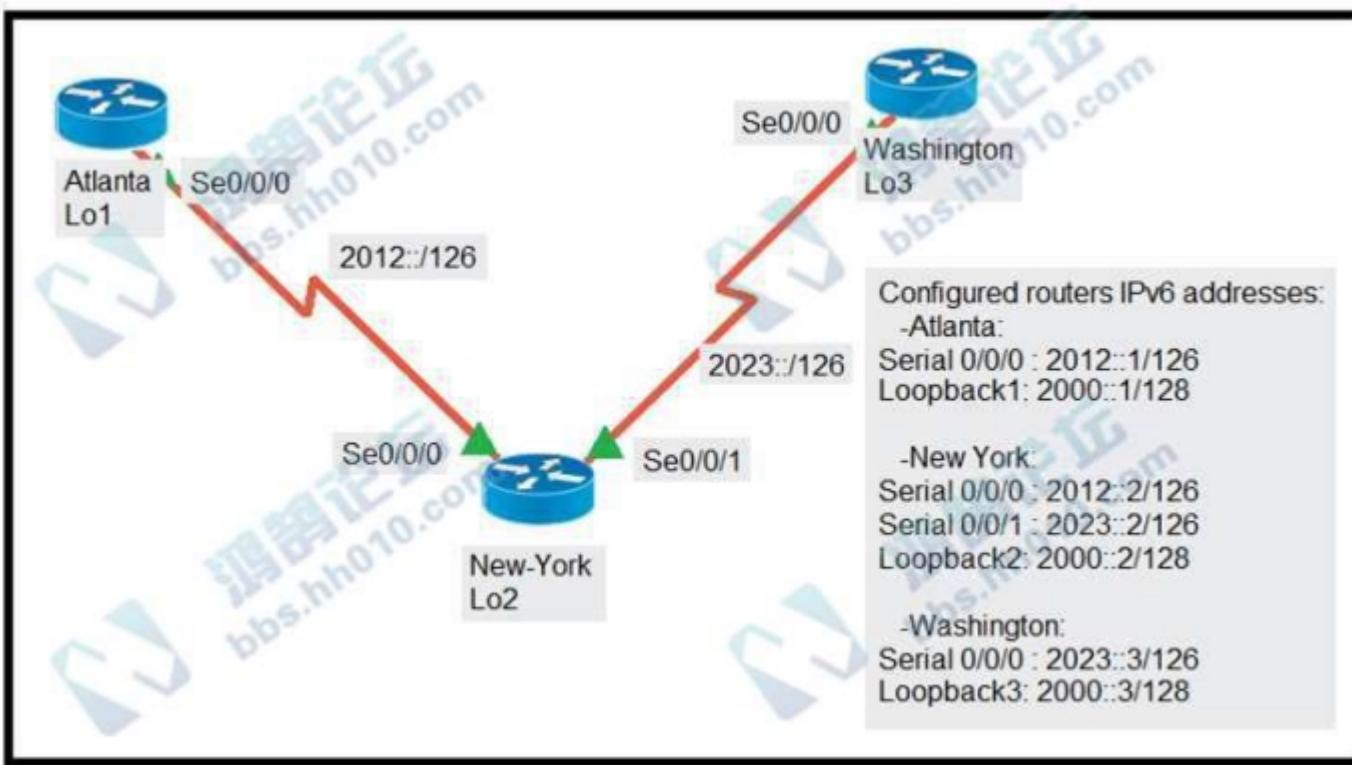


Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 169

Refer to the exhibit. The loopback 1 interface of the Atlanta router must reach the loopback 3 interface of the Washington router. Which two static host routes must be configured on the New York router?(choose two)



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

Correct Answer: BE

Section: choice

Explanation

Explanation/Reference:

QUESTION 170

Refer to the exhibit. A packet is being sent across router R1 to host 172.16.3.14. To which destination does the router send the packet?

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
  172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S   172.16.3.0/24 [1/0] via 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. 207.165.200.246 via Serial0/1/0
- B. 207.165.200.254 via Serial0/0/0
- C. 207.165.200.254 via Serial0/0/1
- D. 207.165.200.250 via Serial0/0/0

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 171

Which goal is achieved by the implementation of private IPv4 addressing on a network?

- A. allows servers and workstations to communicate across public network boundaries
- B. provides a reduction in size of the forwarding table on network routers
- C. allows communication across the Internet to other private networks
- D. provides an added level of protection against Internet exposure

Correct Answer: D

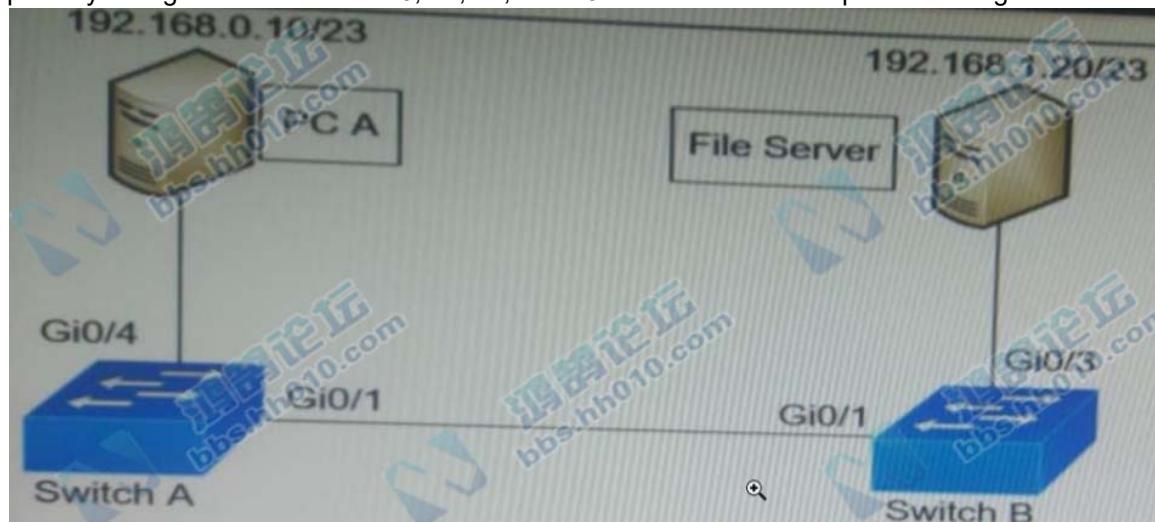
Section: choice

Explanation

Explanation/Reference:

QUESTION 172

Refer to the exhibit. A network administrator assumes a task to complete the connectivity between PC A and the File Server. Switch A and Switch B have been partially configured with VLANs 10, 11, 12, and 13. What is the next step in the configuration?



Switch A
Vlan 10,11,12,13

```
interface GigabitEthernet0/1
switchport mode trunk
switchport trunk allowed vlan 10-12
!
interface GigabitEthernet0/4
switchport access vlan 13
switchport mode access
```

Switch B
Vlan 10,11,12,13

```
interface GigabitEthernet0/1
switchport mode trunk
!
interface GigabitEthernet0/3
switchport access vlan 13
switchport mode access
```

- A. Add PC A to VLAN 10 and the File Server to VLAN 11 for VLAN segmentation
- B. Add VLAN 13 to the trunk links on Switch A and Switch B for VLAN propagation

- C. Add a router on a stick between Switch A and Switch B allowing for Inter VLAN routing
- D. Add PC A to the same subnet as the File Server allowing for intra-VLAN communication

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 173

When a WPA2-PSK WLAN is configured in the Wireless LAN Controller, what is the minimum number of characters that is required in ASCII formar?

- A. 6
- B. 8
- C. 12
- D. 18

Correct Answer: B

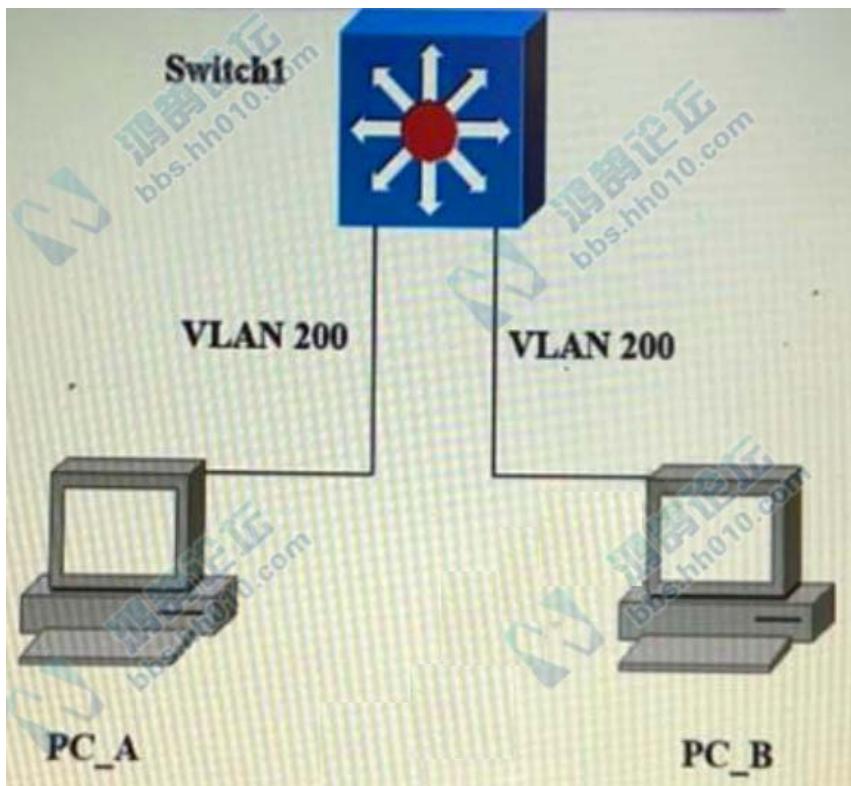
Section: choice

Explanation

Explanation/Reference:

QUESTION 174

Refer to the exhibit Which outcome is expected when PC_A sends data to PC_B?



- A. The switch rewrites the source and destination MAC addresses with its own
- B. The source and destination MAC addresses remain the same
- C. The source MAC address is changed
- D. The destination MAC address is replaced with ffff.ffff.ffff

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 175

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

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

Correct Answer: B

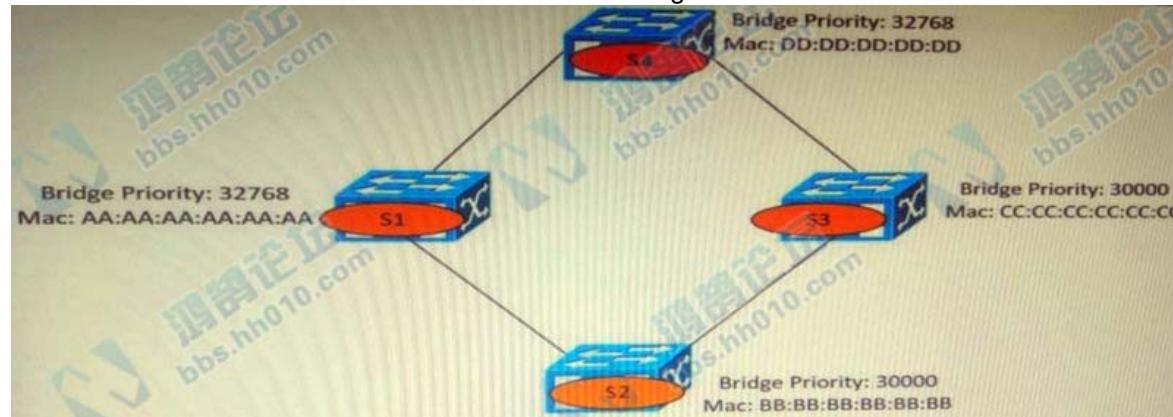
Section: choice

Explanation

Explanation/Reference:

QUESTION 176

Refer to the exhibit. Which switch becomes the root bridge?



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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 177

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

```
R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
      U - per-user static route, o - ODR
Gateway of last resort is not set
C    1.0.0.0/8 is directly connected, Loopback0
      10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
O      10.0.1.3/32 [110/100] via 10.0.1.3, 00:39:08, Serial0
C      10.0.1.0/24 is directly connected, Serial0
O      10.0.1.5/32 [110/5] via 10.0.1.50, 00:39:08, Serial0
O      10.0.1.4/32 [110/10] via 10.0.1.4, 00:39:08, Serial0
```

- A. Loopback 0
- B. 10.0.1.4
- C. 10.0.1.50
- D. 10.0.1.3

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 178

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

- A. forwarding

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 179

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 180

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

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

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 181

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

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

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

Correct Answer: D

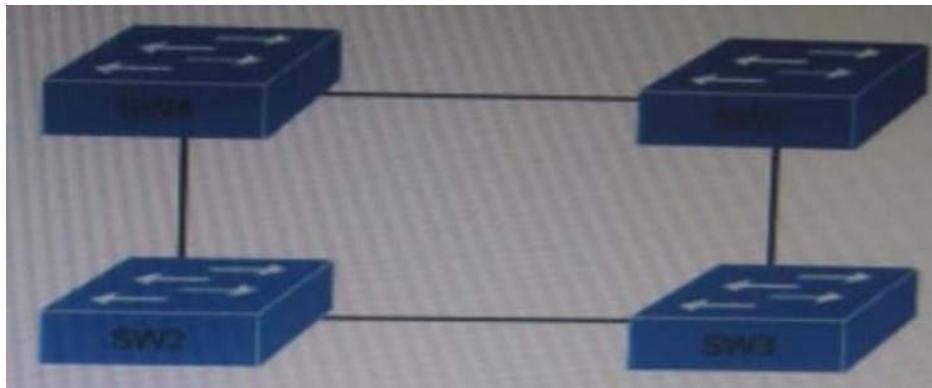
Section: choice

Explanation

Explanation/Reference:

QUESTION 182

Refer to the exhibit. Which switch in this configuration will be elected as the root bridge?



SW1: 0C:E0:38:00:36:75
SW2: 0C:0E:15:22:05:97
SW3: 0C:0E:15:1A:3C:9D
SW4: 0C:E0:18:A1:B3:19

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 183

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?

- A. 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
B. 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
C. 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
D. 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
interface g1/1
ip nat inside
interface g1/2
ip nat outside
```

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 184

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 185

Which device performs stateful inspection of traffic?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 186

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 187

Router R2 is configured with multiple routes to reach network 10.1.1.0/24 from router R1. What protocol is chosen by router R2 to reach the destination network 10.1.1.0/24?

- A. eBGP
- B. static
- C. OSPF
- D. EIGRP

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 188

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 189

Which configuration ensures that the switch is always the root for VLAN 750?

- A. Switch(config)#spanning-tree vlan 750 priority 38003685
- B. Switch(config)#spanning-tree vlan 750 root primary
- C. Switch(config)#spanning-tree vlan 750 priority 614440
- D. Switch(config)#spanning-tree vlan 750 priority 0

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 190

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

Correct Answer: AE

Section: choice

Explanation

Explanation/Reference:

QUESTION 191

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 192

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 193

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

- A. builds a flat structure of DNS names for more efficient IP operations
- B. encrypts network Traffic as it travels across a WAN by default
- C. improves security by protecting IP addresses under Fully Qualified Domain Names (FQDNs)
- 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

Correct Answer: DE

Section: choice

Explanation

Explanation/Reference:

QUESTION 194

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 195

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 196

Which technology is used to improve web traffic performance by proxy caching?

- A. WSA
- B. Firepower
- C. ASA
- D. FireSIGHT

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 197

Using direct sequence spread spectrum, which three 2.4-GHz channels are used to limit collisions?

- A. 1,6,11
- B. 1,5,10
- C. 1,2,3
- D. 5,6,7

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 198

Which type of attack can be mitigated by dynamic ARP inspection?

- A. worm
- B. malware
- C. DDoS
- D. man-in-the-middle

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 199

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.

Correct Answer: CD

Section: choice

Explanation

Explanation/Reference:

QUESTION 200

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 201

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 202

Refer to the exhibit. Which route type does the routing protocol Code D represent in the output?

```
10.0.0.0/24 is subnetted, 1 subnets
C 10.0.0.0 is directly connected, FastEthernet0/1
C 172.160.0.0/16 is directly connected, FastEthernet0/0
D 192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0
```

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 203

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

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

Correct Answer: AC

Section: choice

Explanation

Explanation/Reference:

QUESTION 204

A wireless administrator has configured a WLAN; however, the clients need access to a less congested 5-GHz network for their voice quality. What action must be taken to meet the requirement?

- A. enable AAA override
- B. enable RX-SOP
- C. enable DTIM
- D. enable Band Select

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 205

What mechanism carries multicast traffic between remote sites and supports encryption?

- A. ISATAP
- B. GRE over IPsec
- C. IPsec over ISATAP
- D. GRE

Correct Answer: B

Section: choice

Explanation

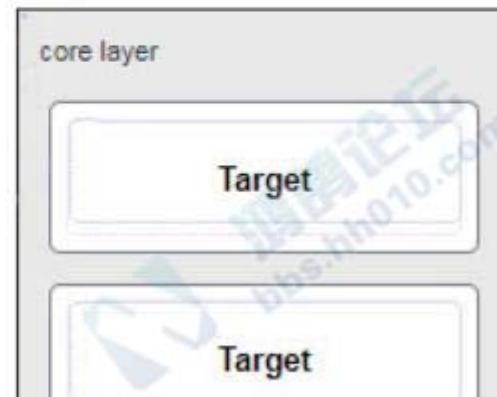
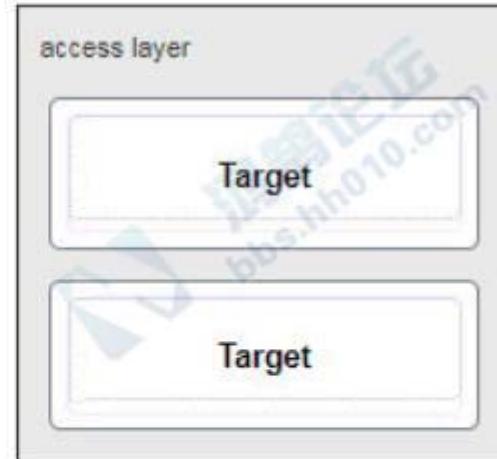
Explanation/Reference:

QUESTION 206

Match the functions to the corresponding layers. (Not all options are used.)

Select and Place:

- provides high-speed backbone connectivity
- implements personal firewalls on the client computers
- provides network access to the user
- implements network access policy
- represents the network edge
- establishes Layer 3 routing boundaries
- functions as an aggregator for all the campus blocks



Correct Answer:



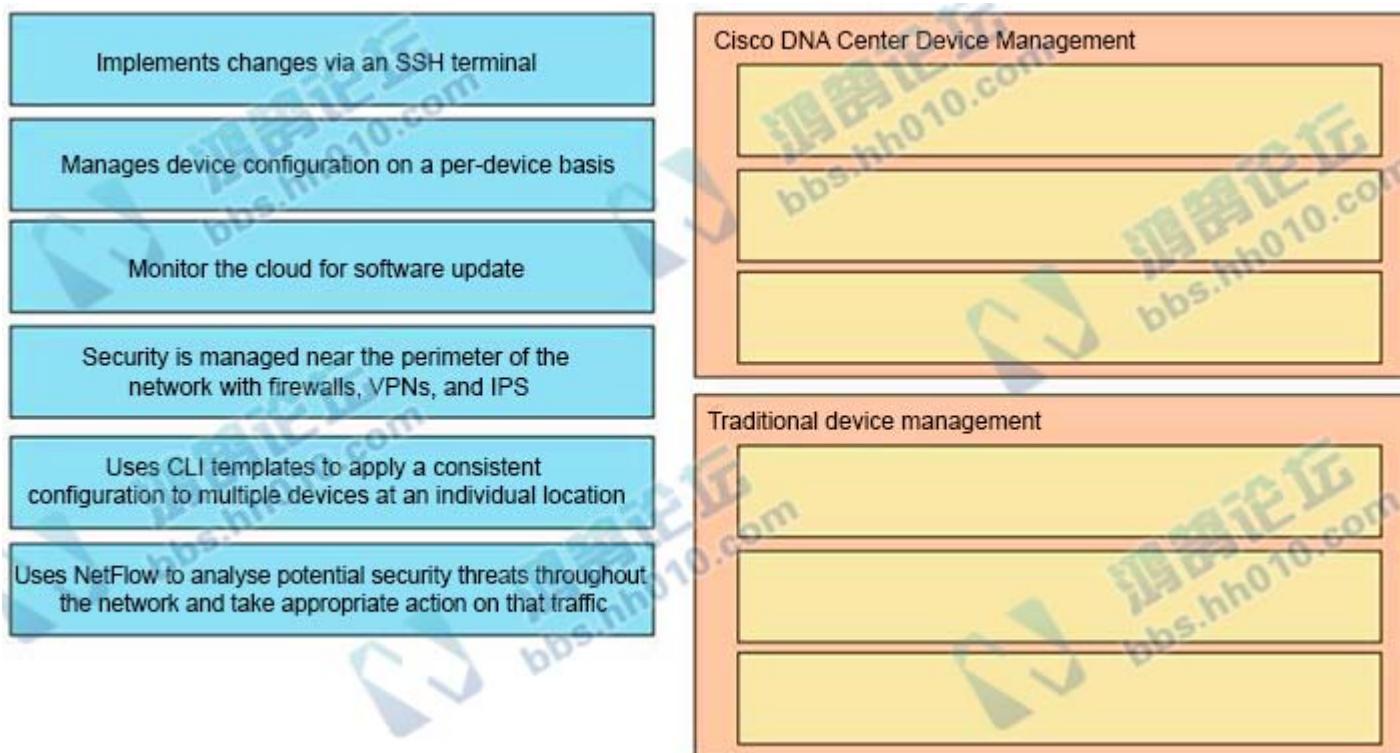
Section: drag-and-drop
Explanation

Explanation/Reference:

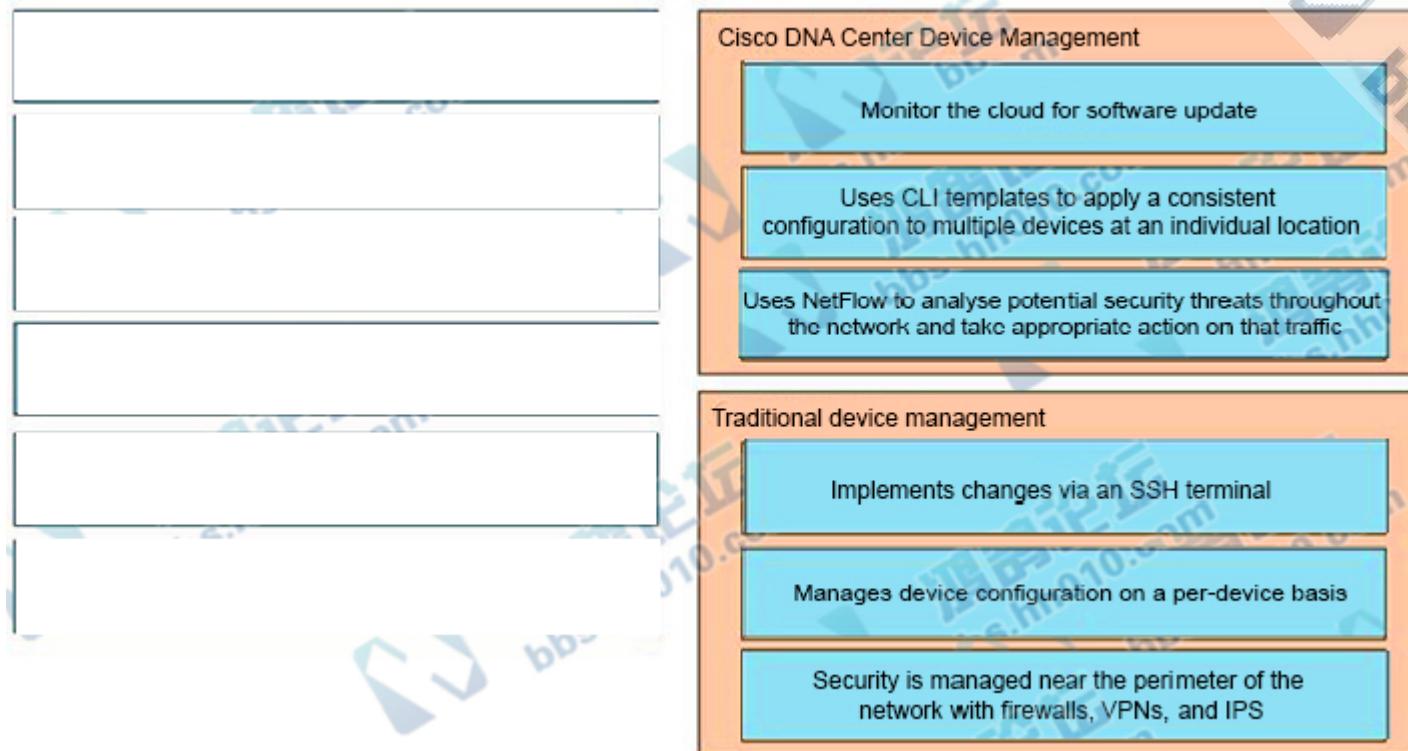
QUESTION 207

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

Select and Place:



Correct Answer:



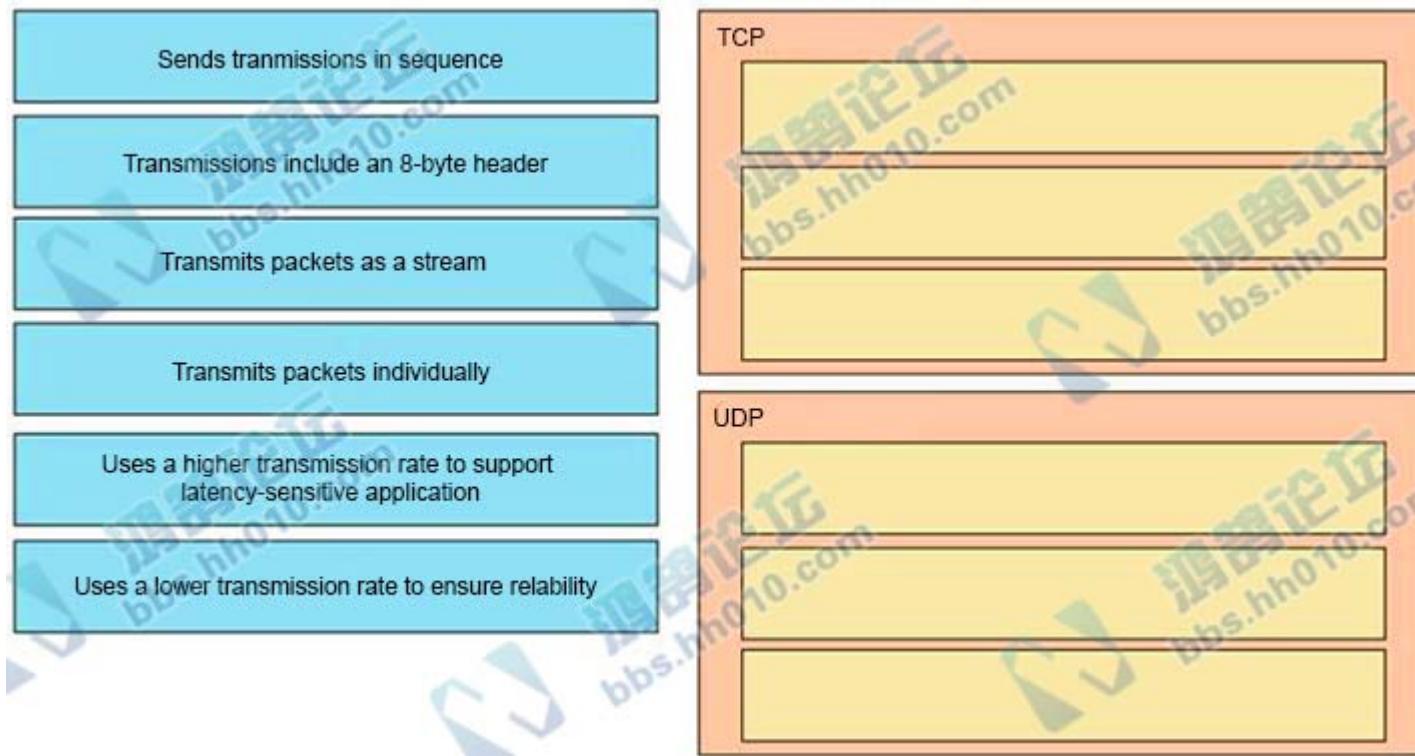
Section: drag-and-drop
Explanation

Explanation/Reference:

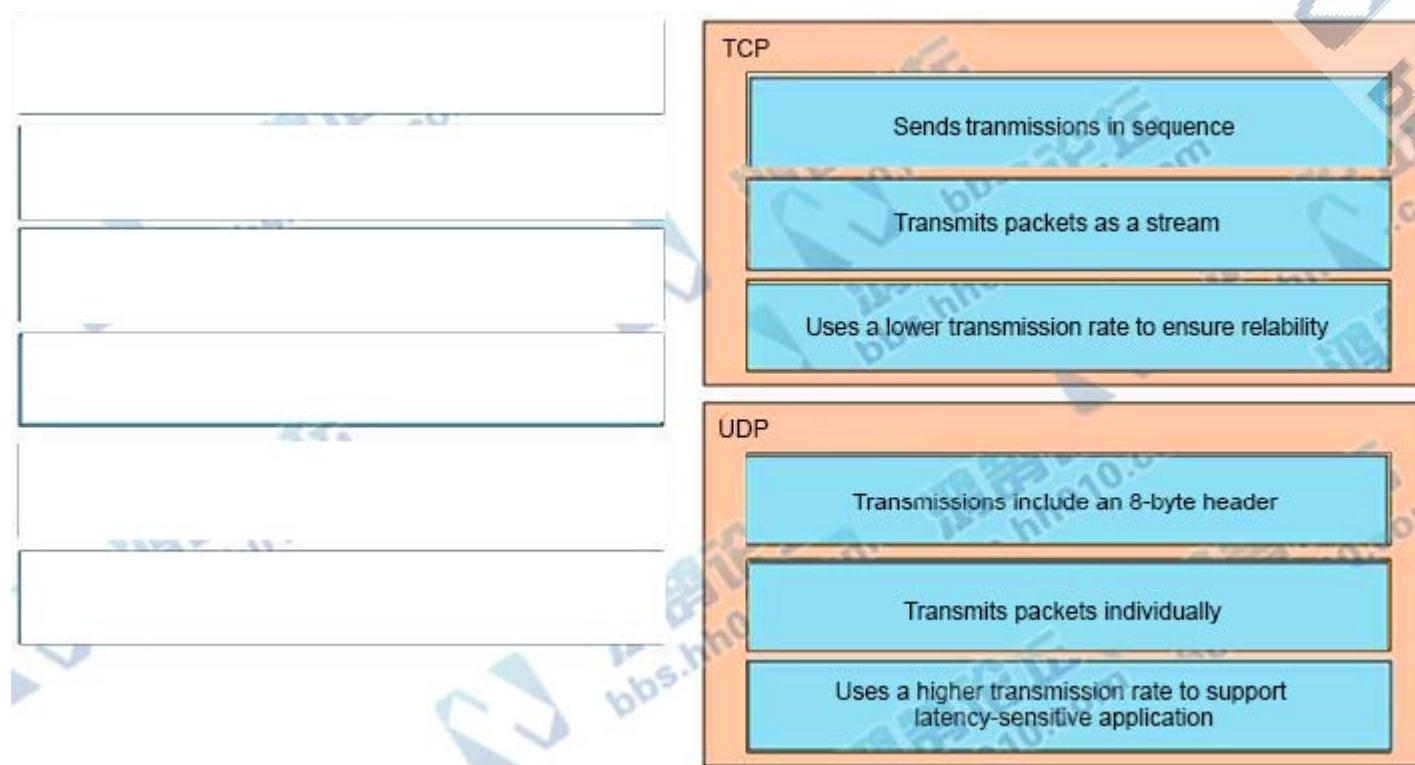
QUESTION 208

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

Select and Place:



Correct Answer:



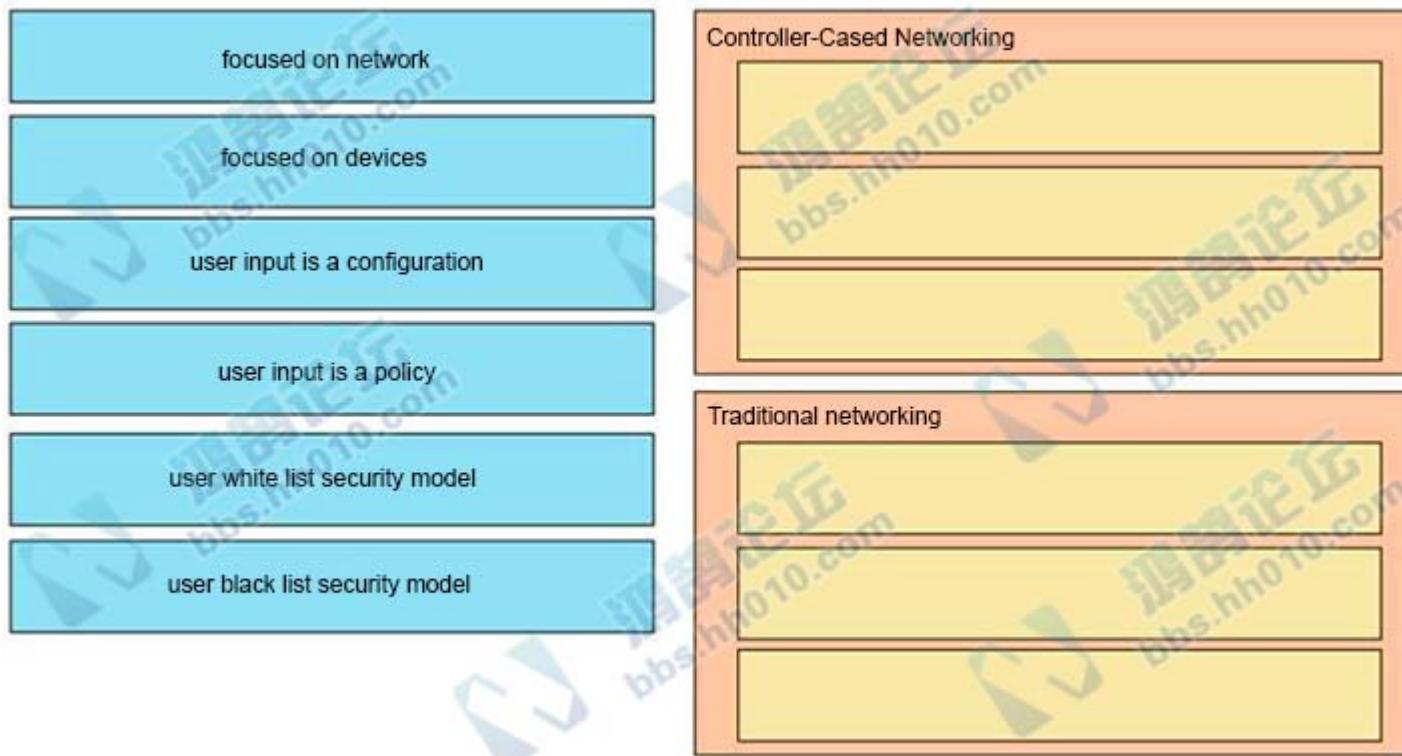
Section: drag-and-drop
Explanation

Explanation/Reference:

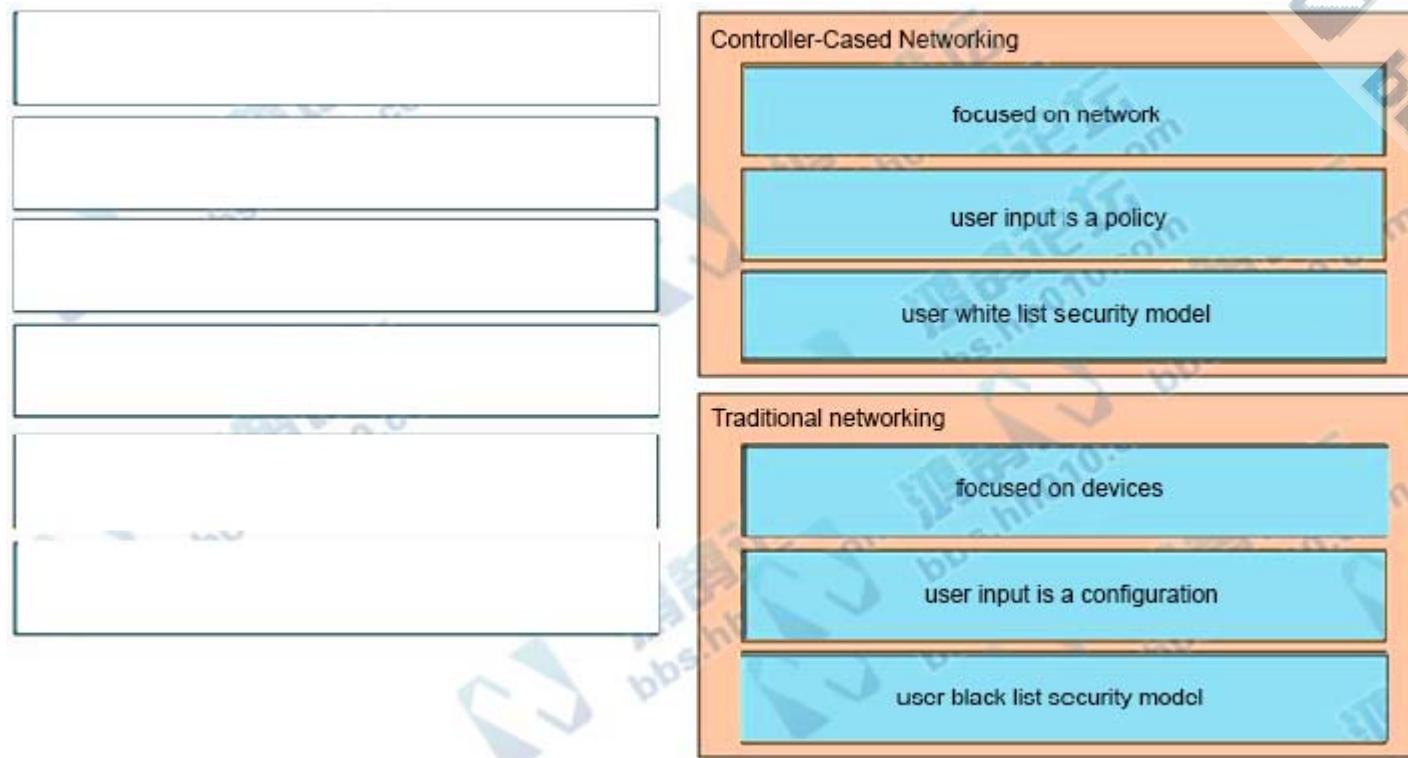
QUESTION 209

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

Select and Place:



Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 210

```
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:

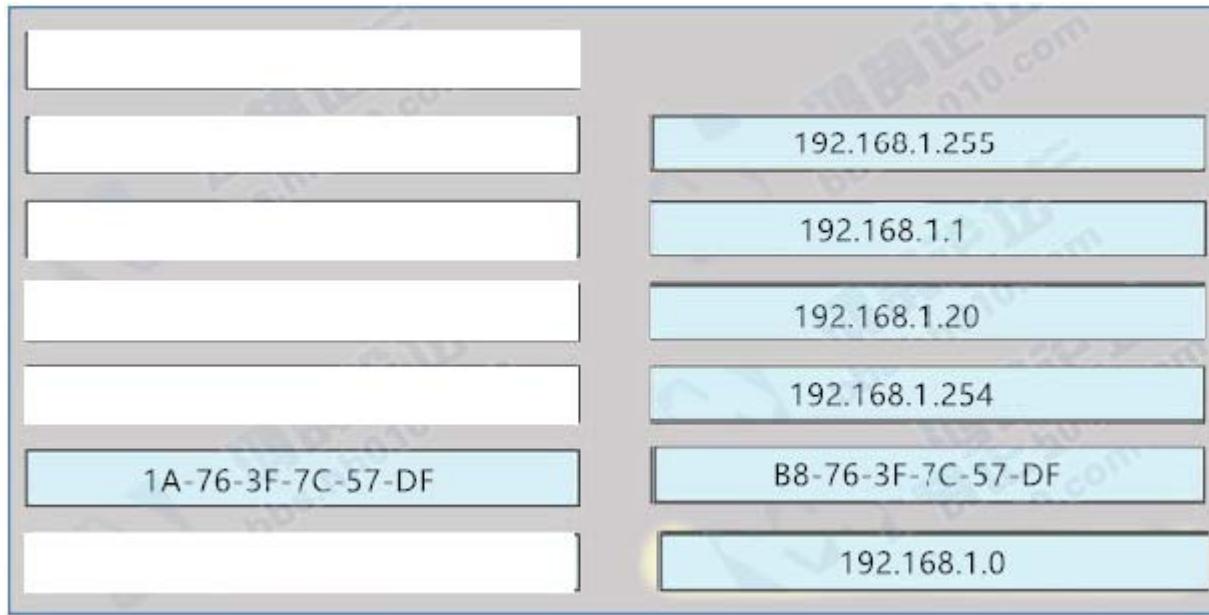
Connection-specific DNS Suffix . . . . . :
Description . . . . . : Dell Wireless 1703 802.11b/g/n (2.4GHz)
Physical Address . . . . . : B8-76-3F-7C-57-DF
DHCP Enabled . . . . . : No
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . :
    fe80::e09f:9839%6:192.168.1.20<Preferred>
    192.168.1.20<Preferred>
    255.255.255.0
    192.168.1.1
    263747135
DHCPv6 IAID . . . . . : 00-01-00-01-18-E6-32-43-B8-76-3F-7C-57-DF
DHCPv6 Client DUID . . . . . :
    192.168.1.15
    192.168.1.16
NetBIOS over Tcpip. . . . . : Enabled
```

An engineer is tasked with verifying network configuration parameters on a client workstation to report back to the team lead. Drag and drop the node identifiers from the left onto the network parameters on the right.

Select and Place:

192.168.1.1	
192.168.1.20	broadcast address
192.168.1.254	default gateway
192.168.1.255	host IP address
B8-76-3F-7C-57-DF	last assignable IP address in the subnet
1A-76-3F-7C-57-DF	MAC address
192.168.1.0	network address

Correct Answer:



Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 211

A network analyst is tasked with configuring the date and time on a router using EXEC mode. The date must be set to January 1, 2020 and the time must be set to 12:00 am. what command should be used?

- A. clock timezone
- B. clock summer-time date
- C. clock set
- D. clock summer-time recurring

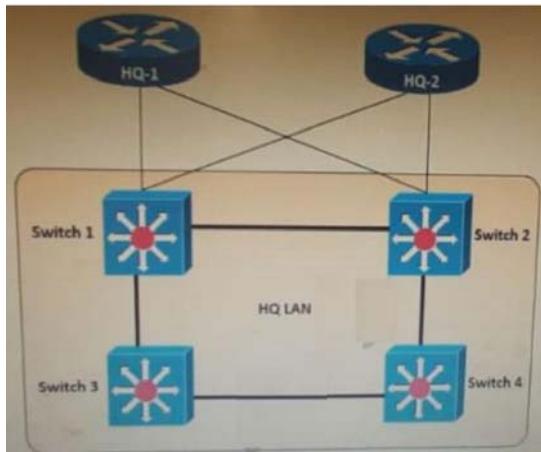
Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 212



Refer to the exhibit. After the election process, what is the root bridge in the HQ LAN?

- Switch 1: 0C:E0:38:57:24:59
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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 213

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 214

What are two functions of a server on a network? (Choose two.)

- A. runs applications that send and retrieve data for workstations that make requests
- B. handles requests from multiple workstations at the same time
- C. housed solely in a data center that is dedicated to a single client
- D. achieves redundancy by exclusively using virtual server clustering
- E. runs the same operating system in order to communicate with other servers

Correct Answer: AB

Section: choice

Explanation

Explanation/Reference:

QUESTION 215

What is a function of a remote access VPN?

- A. used exclusively when a user is connected to a company's internal network
- B. allows the users to access company internal network resources through a secure tunnel

- C. uses cryptographic tunneling to protect the privacy of data for multiple users simultaneously
- D. establishes a secure tunnel between two branch sites

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 216

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

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

Correct Answer: AD

Section: choice

Explanation

Explanation/Reference:

QUESTION 217

```
interface GigabitEthernet0/1
ip address 192.168.1.2 255.255.255.0
ip access-group 2699 in
!
access-list 2699 deny icmp any 10.10.1.0 0.0.0.255 echo
access-list 2699 deny ip any 10.20.1.0 0.0.0.255
access-list 2699 permit ip any 10.10.1.0 0.0.0.255
access-list 2699 permit tcp any 10.20.1.0 0.0.0.127 eq 22
```

Refer to the exhibit. A network administrator must permit SSH access to remotely manage routers in a network. The operations team resides on the 10.20.1.0/25 network. Which command will accomplish this task?

- A. access-list 2699 permit udp 10.20.1.0 0.0.0.255
- B. no access-list 2699 deny tcp any 10.20.1.0 0.0.0.127 eq 22
- C. access-list 2699 permit tcp any 10.20.1.0 0.0.0.255 eq 22
- D. no access-list 2699 deny ip any 10.20.1.0 0.0.0.255

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 218

Drag the characteristics of network architectures from the left onto the type of architecture on the right

Select and Place:

single device handles the core and the distribution layer

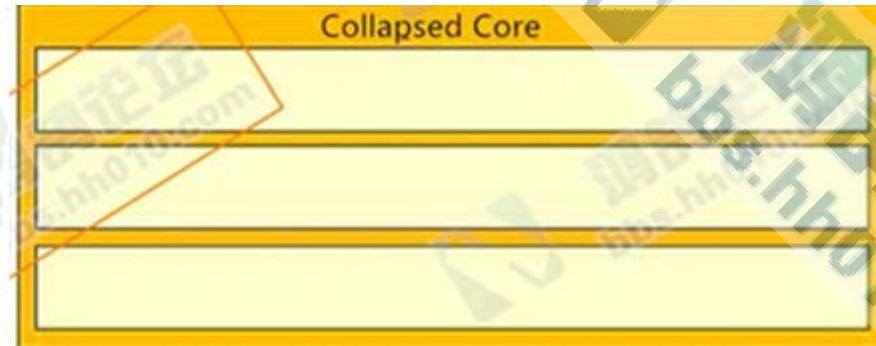
enhances network availability

more cost-effective than other options

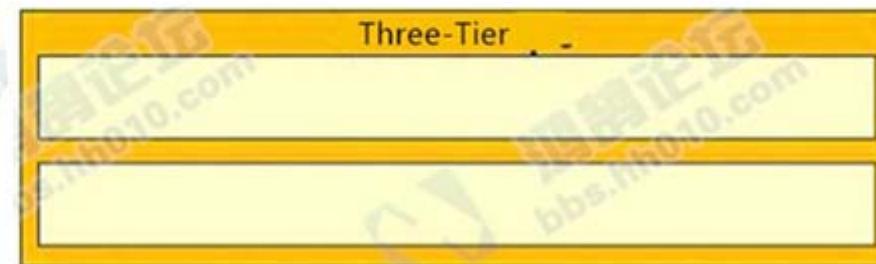
most appropriate for small network designs

separate devices handle the core and the distribution layer

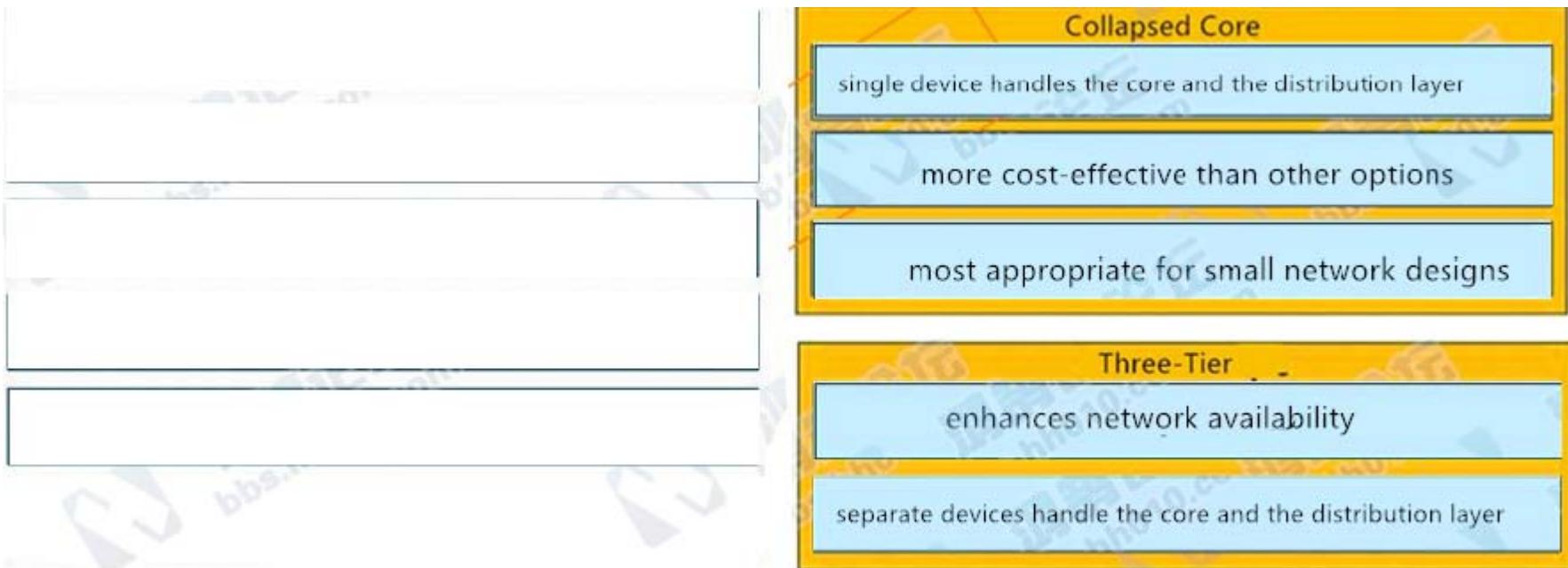
Collapsed Core



Three-Tier



Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 219

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

Select and Place:

MIB	collection of variables that can be monitored
SNMP agent	unsolicited message
SNMP manager	responds to status requests and requests for information about a device
SNMP trap	resides on an NMS

Correct Answer:

	MIB
	SNMP trap
	SNMP agent
	SNMP manager

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 220

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)

Select and Place:

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

Correct Answer:

switchport mode access

switchport port-security

switchport port-security mac-address sticky

switchport port-security maximum 2

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

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

switchport port-security violation shutdown

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 221

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

- A. Ensure timely data transfer between layers.
- B. Provide uninterrupted forwarding service
- C. Inspect packets for malicious activity.
- D. Police traffic that is sent to the edge of the network.
- E. Provide direct connectivity for end user devices

Correct Answer: BC

Section: choice

Explanation

Explanation/Reference:

QUESTION 222

what is the purpose of traffic shaping?

- A. to provide fair queuing for buffered flows
- B. to mitigate delays over slow links
- C. to limit the bandwidth that a flow can use
- D. to be a marking mechanism that identifies different flows

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 223

When using Rapid PVST+, which command guarantees the switch is always the root bridge for VLAN 200?

- A. spanning-tree vlan 200 priority 614440
- B. spanning-tree vlan 200 priority 0
- C. spanning-tree vlan 200 priority 38572422
- D. spanning-tree vlan 200 root primary

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 224

Which command must be entered to configure a DHCP relay?

- A. ip helper-address
- B. ip address dhcp
- C. ip dhcp pool
- D. ip dhcp relay

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 225

When implementing a router as a DHCP server, which two features must be configured? (Choose two)

- A. relay agent information
- B. address pool

- C. smart-relay
- D. database agent
- E. manual bindings

Correct Answer: BE

Section: choice

Explanation

Explanation/Reference:

QUESTION 226

How does the dynamically-learned MAC address feature function?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 227

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 228

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 229

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 230

Refer to the exhibit, which command configures a floating static route to provide a backup to the primary link?

```
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      Gateway of last resort is 209.165.202.131 to network 0.0.0.0

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

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

Correct Answer: C

Section: choice

Explanation:

Explanation/Reference:

QUESTION 231

What is the primary function of a Layer 3 device?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 232

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 233

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 234

What is a recommended approach to avoid co-channel congestion while installing access points that use the 2.4 GHz frequency?

- A. different nonoverlapping channels
- B. different overlapping channels
- C. one overlapping channel
- D. one nonoverlapping channel

Correct Answer: A

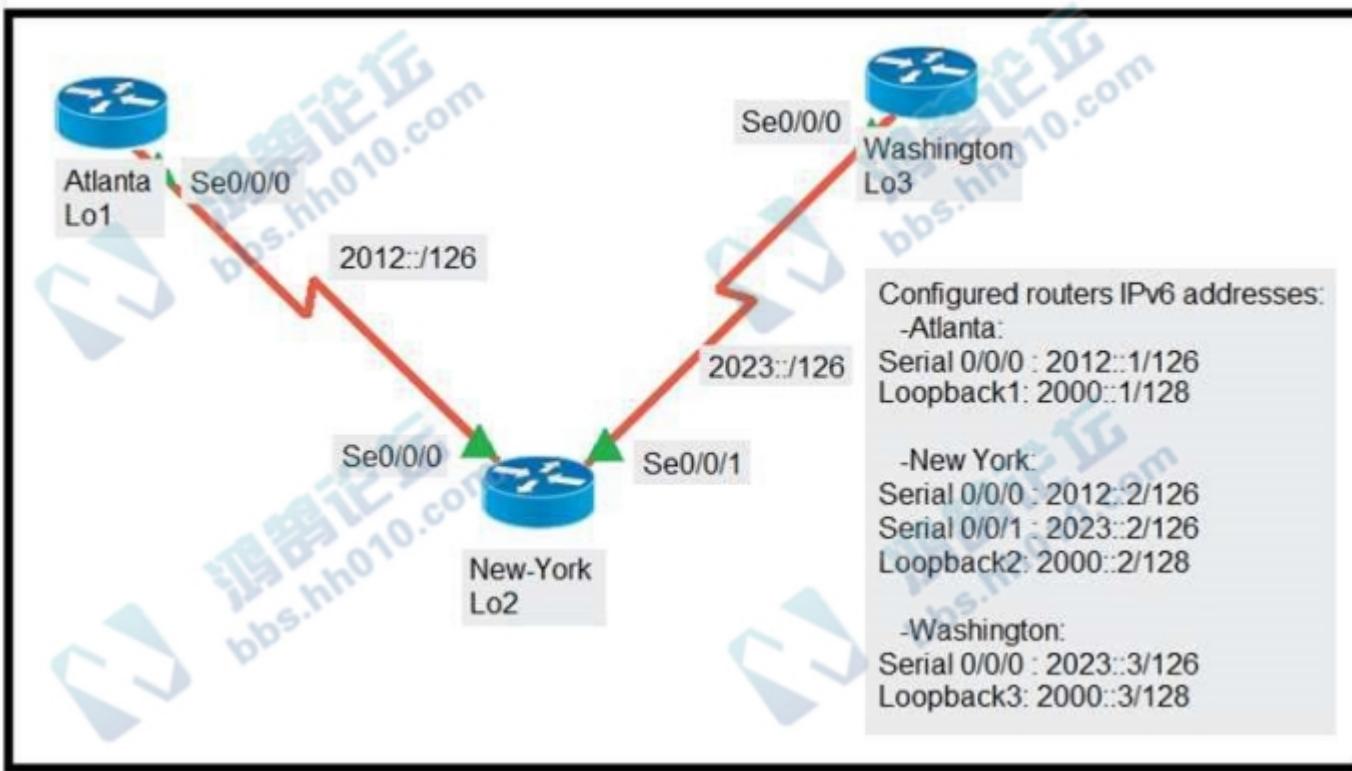
Section: choice

Explanation

Explanation/Reference:

QUESTION 235

Refer to the exhibit. An engineer configured the New York router with static routes that point to the Atlanta and Washington sites. What 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. ipv6 route ::/0 Serial 0/0/1
- B. ipv6 route 0/0 Serial 0/0/0
- C. ipv6 route ::/0 Serial 0/0/0
- D. ip route 0.0.0.0.0.0.0 Serial 0/0/0
- E. ipv6 route ::/0 2000::2

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 236

Which CRUD operation modifies an existing table or view?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 237

What is a DHCP client?

- A. a workstation that requests a domain name associated with its IP address
- B. a host that is configured to request an IP address automatically
- C. a server that dynamically assigns IP addresses to hosts.
- D. a router that statically assigns IP addresses to hosts.

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 238

What is the same for both copper and fiber interfaces when using SFP modules?

- A. They support an inline optical attenuator to enhance signal strength
- B. They provide minimal interruption to services by being hot-swappable

- C. They offer reliable bandwidth up to 100 Mbps in half duplex mode
- D. They accommodate single-mode and multi-mode in a single module

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 239

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 240

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 241

In software defined architectures, which plane is distributed and responsible for traffic forwarding?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 242

which two QoS tools are used to guarantee minimum bandwidth to certain traffic ?(choose two)

- A. FIFO
- B. LLC
- C. CBWFQ
- D. RSVP
- E. WFQ

Correct Answer: CE

Section: choice

Explanation

Explanation/Reference:

QUESTION 243

which configuration management mechanism uses TCP port 22 by default when communicating with managed nodes?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 244

Where does a switch maintain DHCP snooping information?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

The DHCP snooping binding database is also referred to as the DHCP snooping binding table. The DHCP snooping feature dynamically builds and maintains the database using information extracted from intercepted DHCP messages. The database contains an entry for each untrusted host with a leased IP address if the host is associated with a VLAN that has DHCP snooping enabled. The database does not contain entries for hosts connected through trusted interface

QUESTION 245

Select and Place:

Drag and drop the DHCP snooping terms from the left onto the descriptions on the right	
DHCP server	list of hosts on the network that are unknown to the administrative domain
snooping binding database	network component that IP addresses to hosts on the network
spurious DHCP server	internal device under the control of the network administrator
trusted	unknown DHCP server within an administrative domain
untrusted	default state of all interfaces

Correct Answer:

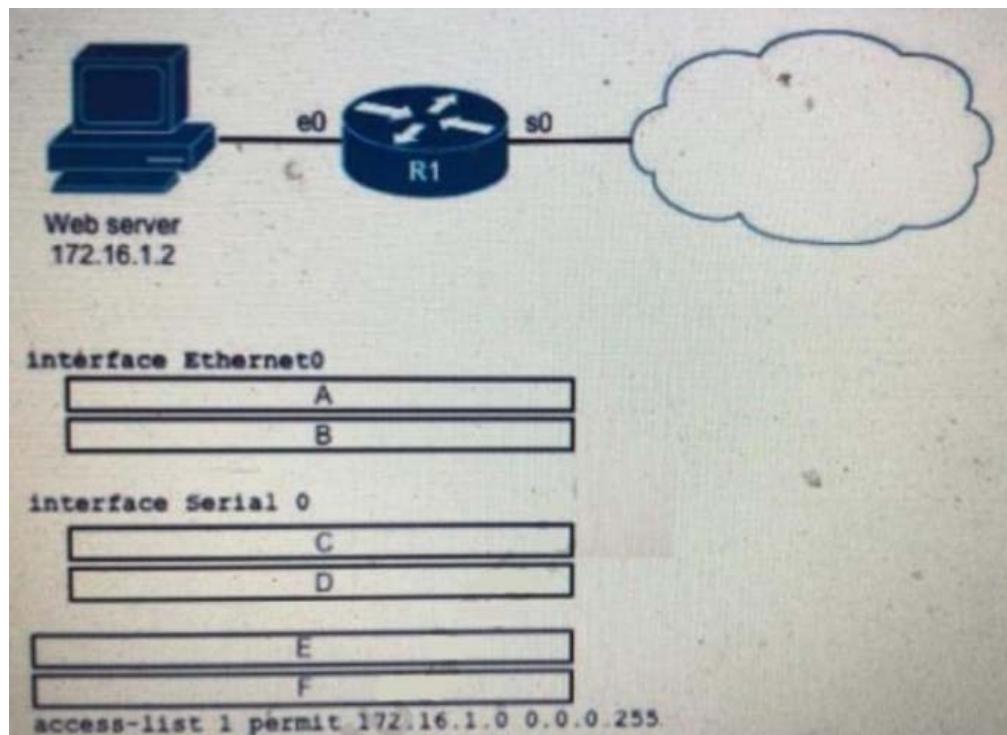
Drag and drop the DHCP snooping terms from the left onto the descriptions on the right	
	snooping binding database
	DHCP server
	trusted
	spurious DHCP server
	untrusted

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 246

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.



Select and Place:

Drag each definition on the left to the matching term 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

Correct Answer:

Drag each definition on the left to the matching term on the right.

- | |
|--|
| ip address 172.16.1.1 255.255.255.0 |
| ip nat inside |
| ip address 45.83.2.214 255.255.255.240 |
| ip nat outside |
| ip nat inside source list 1 interface s0 overload |
| ip nat inside source static tcp 172.16.1.2 80
45.83.2.214 80 extendable |

Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 247

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

Select and Place:

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

Correct Answer:

PQ
CBWGQ
WFQ
CQ
FIFO

Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 248

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

Select and Place:

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

Correct Answer:

show snmp host

show snmp engineID

show snmp group

show snmp community

show snmp chassis

Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 249

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. user awareness
- C. physical access control
- D. network authorization

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 250

A network administrator needs to aggregate 4 ports into a single logical link which must negotiate layer 2 connectivity to ports on another switch. What must be configured when using active mode on both sides of the connection?

- A. 802.1q trunks
- B. Cisco vPC
- C. LLDP
- D. LACP

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 251

In which situation is private IPv4 addressing appropriate for a new subnet on the network of an organization?

- A. There is limited unique address space, and traffic on the new subnet will stay local within the organization.
- B. The network has multiple endpoint listeners, and it is desired to limit the number of broadcasts.
- C. Traffic on the subnet must traverse a site-to-site VPN to an outside organization.
- D. The ISP requires the new subnet to be advertised to the internet for web services.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 252

Aside from discarding, which two states does the switch port transition through while using RSTP (802.1w)? (Choose two)

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

Correct Answer: CD

Section: choice

Explanation

Explanation/Reference:

QUESTION 253

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

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

Correct Answer: A

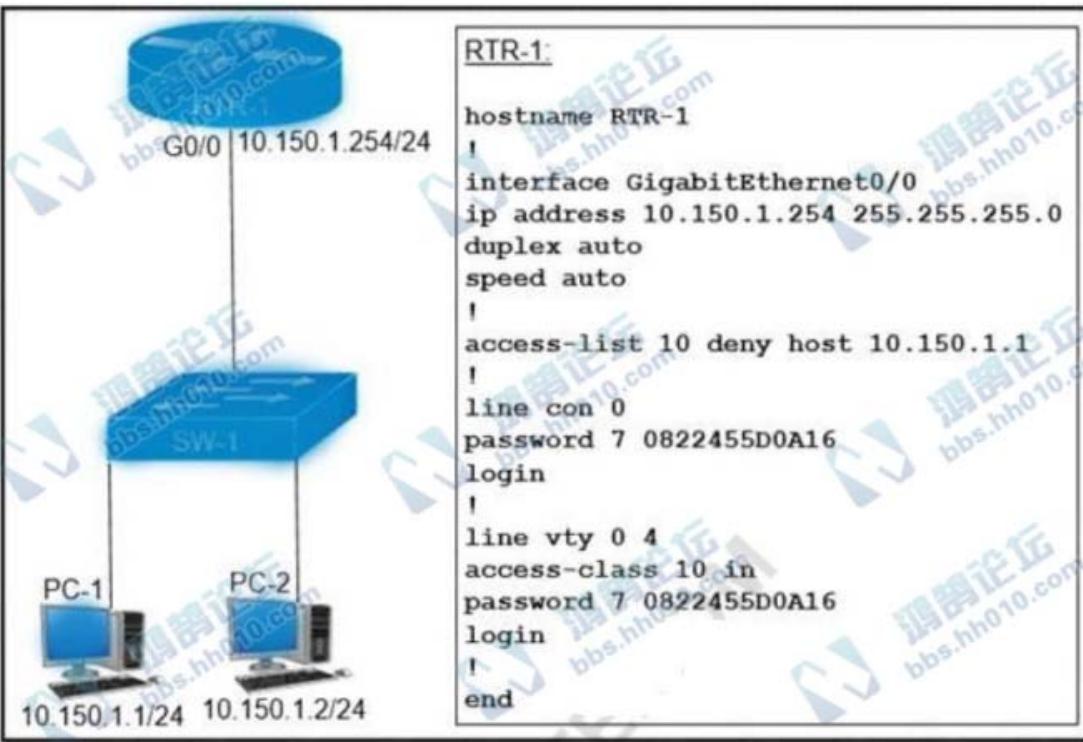
Section: choice

Explanation

Explanation/Reference:

QUESTION 254

Refer to the exhibit. An access list is created to deny Telnet access from host PC-1 to RTR-1 and allow access from all other hosts A Telnet attempt from PC-2 gives this message:"% Connection refused by remote host" Without allowing Telnet access from PC-1, which action must be taken to permit the traffic?



- A. Add the access-list 10 permit any command to the configuration
- B. Remove the access-class 10 in command from line vty 0.4.
- C. Add the ip access-group 10 out command to interface g0/0.
- D. Remove the password command from line vty 0 4.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 255

What is a role of wireless controllers in an enterprise network?

- A. centralize the management of access points in an enterprise network
- B. support standalone or controller-based architectures
- C. serve as the first line of defense in an enterprise network
- D. provide secure user logins to devices on the network.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 256

What is the effect when loopback interfaces and the configured router ID are absent during the OSPF Process configuration?

- A. No router ID is set, and the OSPF protocol does not run.
- B. The highest up/up physical interface IP address is selected as the router ID.
- C. The lowest IP address is incremented by 1 and selected as the router ID.
- D. The router ID 0.0.0.0 is selected and placed in the OSPF process.

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 257

What is recommended for the wireless infrastructure design of an organization?

- A. group access points together to increase throughput on a given channel
- B. configure the first three access points are configured to use Channels 1, 6, and 11
- C. include at least two access points on nonoverlapping channels to support load balancing
- D. assign physically adjacent access points to the same Wi-Fi channel

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 258

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 259

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

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 260

Which CRUD operation corresponds to the HTTP GET method?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

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/>

QUESTION 261

With REST API, which standard HTTP header tells a server which media type is expected by the client?

- A. Accept-Encoding: gzip, deflate
- B. Accept-Patch: text/example; charset=utf-8
- C. Content-Type: application/json; charset=utf-8
- D. Accept: application/json

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 262

Which device tracks the state of active connections in order to make a decision to forward a packet through?

- A. wireless access point

- B. firewall
- C. wireless LAN controller
- D. router

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 263

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



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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 264

Refer to the exhibit. A network administrator has been tasked with securing VTY access to a router. Which access-list entry accomplishes this task?

```
access-list 101 permit ospf any any
access-list 101 permit tcp any any eq 179
access-list 101 permit tcp any eq 179 any
access-list 101 permit gre any any
access-list 101 permit esp any any

access-list 101 deny ospf any any
access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq telnet
access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq 500
access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255 eq 4500
access-list 101 deny ip any any log

interface Ethernet0/0
  ip address 10.1.1.25 255.255.255.0
  ip access-group 101 in
```

- A. access-list 101 permit tcp 10.1.10 0.0.0.255 172.16.10 0.0.0.255 eq ssh
- B. access-list 101 permit tcp 10.11.0 0.0.0.255 172.16.10 0.0.0.255 eq scp
- C. access-list 101 permit tcp 10.11.0 0.0.0.255 172.16.10 0.0.0.255 eq telnet
- D. access-list 101 permit tcp 10.1.10 0.0.0.255 172.16.10 0.0.0.255 eq https

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 265

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 266

Which device controls the forwarding of authentication requests for users when connecting to the network using a lightweight access point?

- A. TACACS server
- B. wireless access point
- C. RADIUS server
- D. wireless LAN controller

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 267

Refer to the exhibit. What is the result if Gig1/11 receives an STP BPDU?

```
switch(config)#interface gigabitEthernet 1/11  
switch(config-if)#switchport mode access  
switch(config-if)#spanning-tree portfast  
switch(config-if)#spanning-tree bpduguard enable
```

- A. The port transitions to STP blocking
- B. The port transitions to the root port
- C. The port immediately transitions to STP forwarding.
- D. The port goes into error-disable state

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 268

Which configuration is needed to generate an RSA key for SSH on a router?

- A. Configure the version of SSH
- B. Configure VTY access.
- C. Create a user with a password.
- D. Assign a DNS domain name

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 269

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 270

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 271

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

- A. It alternates automatically between 2.4 GHz and 5 GHz on adjacent access points

- B. It allows the administrator to assign channels on a per-device or per-interface basis.
- C. It segregates devices from different manufacturers onto different channels.
- D. It analyzes client load and background noise and dynamically assigns a channel.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 272

What does a switch use to build its MAC address table?

- A. VTP
- B. DTP
- C. egress traffic
- D. ingress traffic

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 273

Which network plane is centralized and manages routing decisions?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 274

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

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

Correct Answer: D

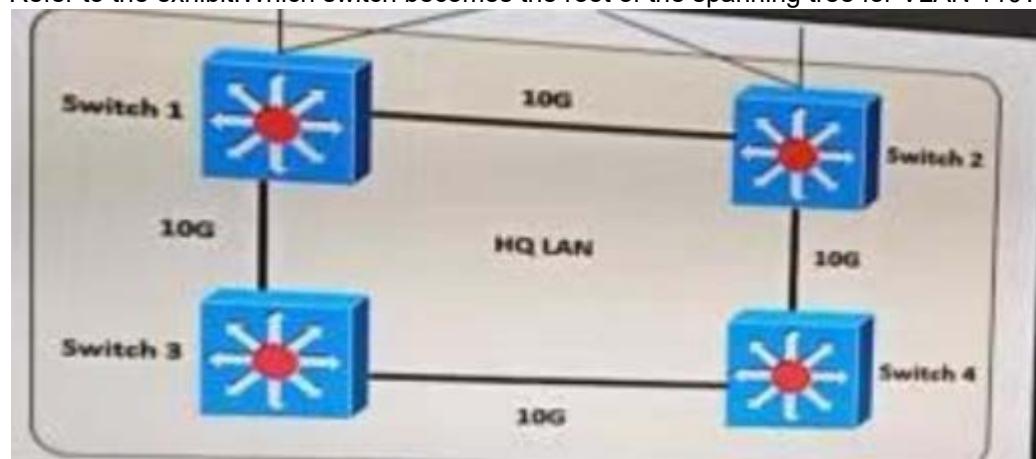
Section: choice

Explanation

Explanation/Reference:

QUESTION 275

Refer to the exhibit. Which switch becomes the root of the spanning tree for VLAN 110?



Switch 1
VLAN 110 - 32778.0018.184e.3c00

Switch 2
VLAN 110 - 24586.001a.e3ff.a680
Switch 3
VLAN 110 - 28682.0022.55cf.cc00
Switch 4
VLAN 110 - 64000.0e38.8320.450f

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 276

Which type of information resides on a DHCP server ?

- A. a list of statically assigned MAC addresses
- B. a list of the available IP addresses in a pool
- C. a list of public IP addresses and their corresponding names
- D. usernames and passwords for the end users in a domain

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 277

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

- A. BPDU filter

- B. Backbonefast
- C. BPDU guard
- D. PortFast

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 278

What is a DNS lookup operation?

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

Correct Answer: D

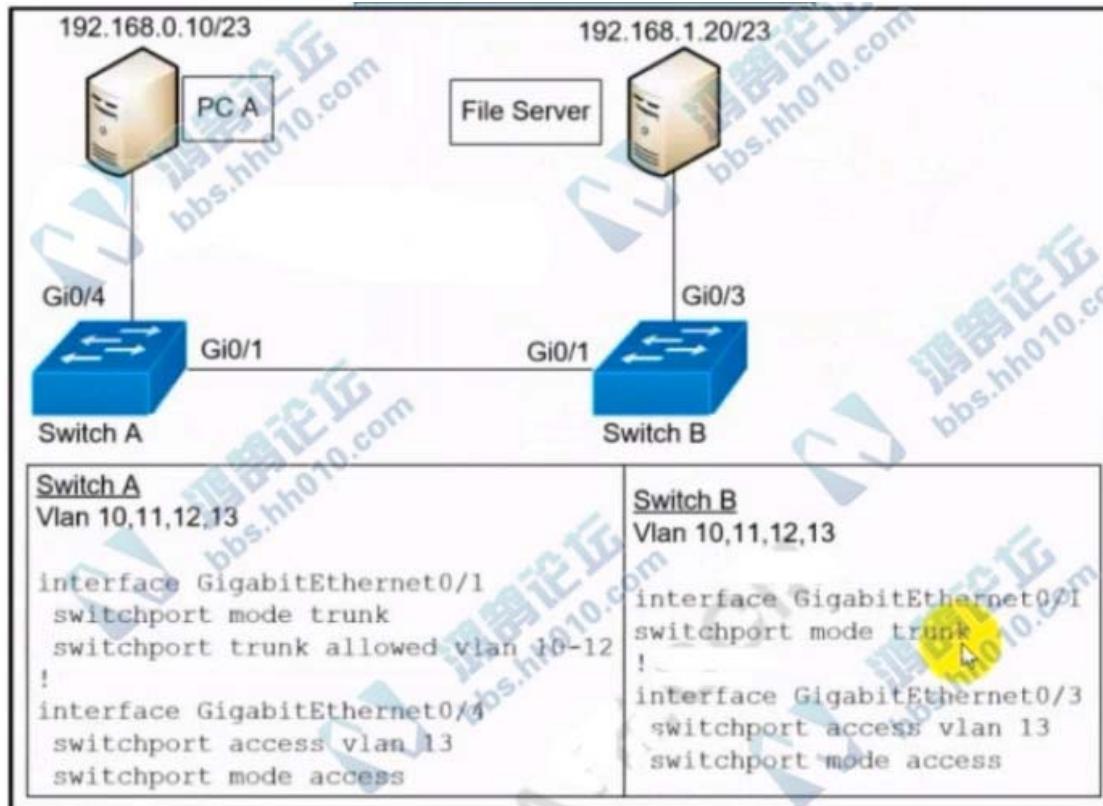
Section: choice

Explanation

Explanation/Reference:

QUESTION 279

Refer to the exhibit. A network engineer must configured communication between PC A and the File Server. To prevent interruption for any other communications, which command must be configured?



- A. Switch trunk allowed vlan 12
- B. Switchport trunk allowed vlan none
- C. Switchport trunk allowed vlan add 13
- D. Switchport trunk allowed vlan remove 10-11

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 280

What is a characteristic of a SOHO network?

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 281

Which resource is able to be shared among virtual machines deployed on the same physical server?

- A. disk
- B. applications
- C. VM configuration file
- D. operating system

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 282

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

- A. WPA2 + AES
- B. WPA + AES

- C. WEP
- D. WPA + TKIP

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 283

Refer to the exhibit. 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?

```
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)
```

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 284

What is an appropriate use for private IPv4 addressing?

- A. on the public-facing interface of a firewall
- B. to allow hosts inside to communicate in both directions with hosts outside the organization

- C. on internal hosts that stream data solely to external resources
- D. on hosts that communicates only with other internal hosts

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 285

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

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

Correct Answer: BD

Section: choice

Explanation

Explanation/Reference:

QUESTION 286

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 287

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 288

Which WAN topology provides a combination of simplicity, quality, and availability?

- A. partial mesh
- B. full mesh
- C. point-to-point
- D. hub-and-spoke

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 289

Why does a switch flood a frame to all ports?

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

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 290

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 291

What is a network appliance that checks the state of a packet to determine whether the packet is legitimate?

- A. Layer 2 switch
- B. load balancer
- C. firewall
- D. LAN controller

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 292

How is the native VLAN secured in a network?

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 293

Which command on a port enters the forwarding state immediately when a PC is connected to it?

- A. switch(config)#spanning-tree portfast default
- B. switch(config)#spanning-tree portfast bpduguard default

- C. switch(config-if)#spanning-tree portfast trunk
- D. switch(config-if)#no spanning-tree portfast

Correct Answer: C

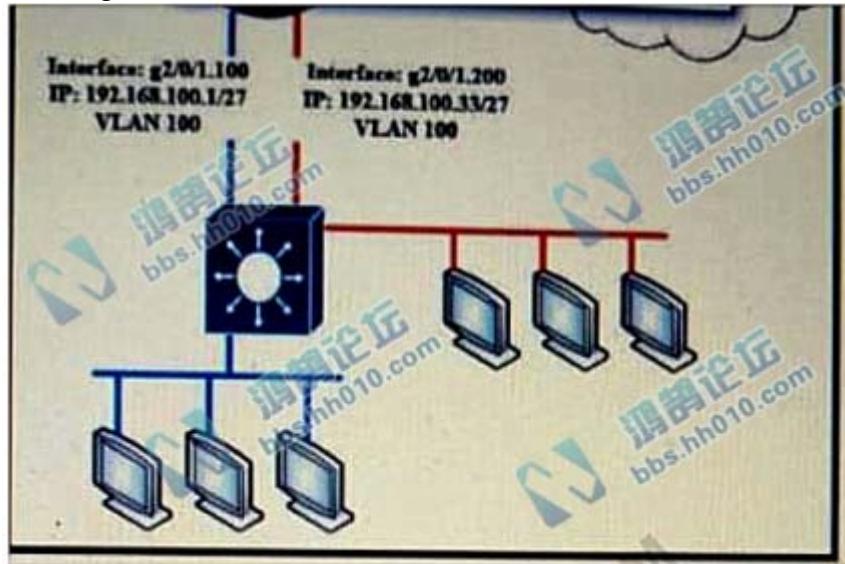
Section: choice

Explanation

Explanation/Reference:

QUESTION 294

Refer to Exhibit. Which configuration must be applied to the router that configures PAT to translate all addresses in VLAN 200 while allowing devices on VLAN 100 to use their own IP addresses?



- A. Router1(config)#access-list 99 permit 209.165.201.2 0.0.0.0
Router1(config)#ip nat inside source list 99 interface gi 1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi 1/0/0
Router1(config-if)#ip nat outside

- B. Router1(config)#access-list 99 permit 209.165.201.2 255.255.255.255
Router1(config)#ip nat inside source list 99 interface gi 1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi 1/0/0
Router1(config-if)#ip nat outside
- C. Router1(config)#access-list 99 permit 192.168.100.0 0.0.0.255
Router1(config)#ip nat inside source list 99 interface gi 1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi 1/0/0
Router1(config-if)#ip nat outside
- D. Router1(config)#access-list 99 permit 192.168.100.32 0.0.0.31
Router1(config)#ip nat inside source list 99 interface gi 1/0/0 overload
Router1(config)#interface gi2/0/1.200
Router1(config-if)#ip nat inside
Router1(config)#interface gi 1/0/0
Router1(config-if)#ip nat outside

Correct Answer: D

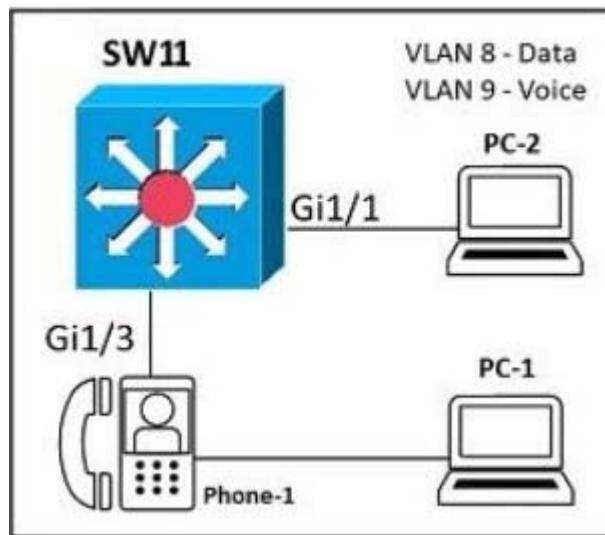
Section: choice

Explanation

Explanation/Reference:

QUESTION 295

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?



- A. interface gigabitethernet 1/1
Switchport mode access
Switchport access vlan 8
!
Interface gigabitethernet 1/3
Switchport mode access
Switchport voice vlan 8
Switchport access vlan 9
- B. interface gigabitethernet 1/1
Switchport mode access
Switchport access vlan 9
!
Interface gigabitethernet 1/3
Switchport mode trunk
Switchport trunk vlan 8
Switchport trunk vlan 9
- C. interface gigabitethernet 1/1
Switchport mode access
Switchport access vlan 8
!
Interface gigabitethernet 1/3
Switchport mode access

Switchport access vlan 8
Switchport voice vlan 9
D. interface gigabitethernet 1/1
Switchport mode access
Switchport access vlan 8
!
Intterface gigabitethernet 1/3
Switchport mode trunk
Switchport trunk vlan 8
Switchport voice vlan 9

Correct Answer: C

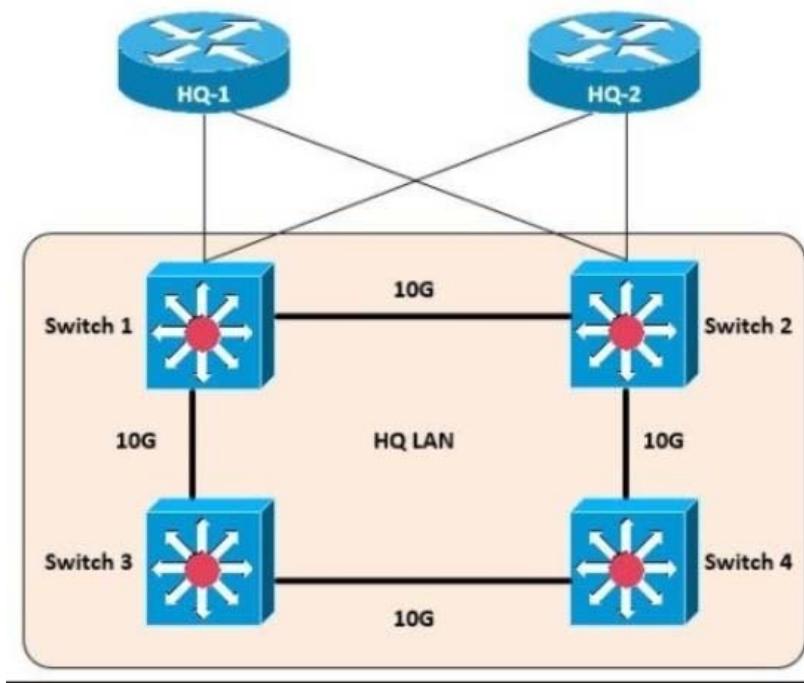
Section: choice

Explanation

Explanation/Reference:

QUESTION 296

Refer to the exhibit. Which switch becomes the root of the spanning tree for VLAN 110?



```
Switch 1
VLAN 110 - 32778 0018.184e.3c00
Switch 2
VLAN 110 - 24586 001a.e3ff.a680
Switch 3
VLAN 110 - 28682 0022.55cf.cc00
Switch 4
VLAN 110 - 64000 0e38.7363.657f
```

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 297

What is a benefit of VRRP?

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 298

Which protocol does an IPv4 host use to obtain a dynamically assigned IP address?

- A. ARP
- B. DHCP
- C. CDP
- D. DNS

Correct Answer: B

Section: choice

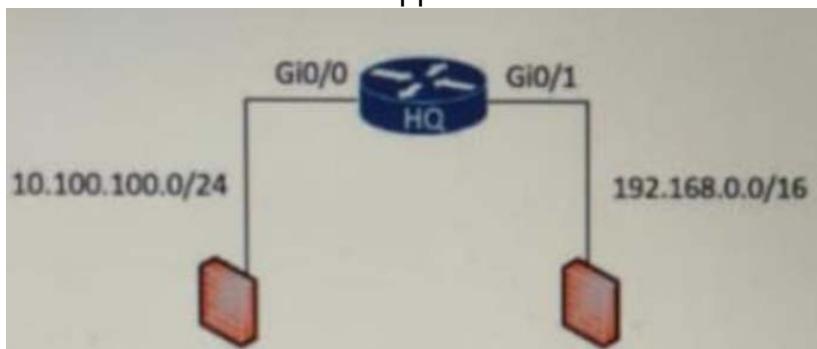
Explanation

Explanation/Reference:

QUESTION 299

Refer to the exhibit. An access list is required to permit traffic from any host on interface G0/0 and deny traffic from interface G0/1.

Which access list must be applied?



- A. ip access-list standard 99
Permit 10.100.100.0 0.0.0.255
Deny 192.168.0.0 0.0.255.255
- B. ip access-list standard 99
Permit 10.100.100.0 0.0.0.255
Deny 192.168.0.0 0.255.255.255
- C. ip access-list standard 100
Permit 10.100.100.0 0.0.0.255
Deny 192.168.0.0 0.255.255.255
- D. ip access-list standard 100
Permit 10.100.100.0 0.0.0.255
Deny 192.168.0.0 0.0.255.255

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 300

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 drops the frame immediately.
- B. It forwards the frame back out of interface Fa0/1.
- C. It floods the frame to all interfaces except Fa0/1.

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 301

Which condition must be met before an NMS handles an SNMP trap from an agent?

- A. The NMS software must be loaded with the MIB associated with the trap.
- B. The NMS must be configured on the same router as the SNMP agent
- C. The NMS must receive a trap and an inform message from the SNMP agent within a configured interval
- D. The NMS must receive the same trap from two different SNMP agents to verify that it is reliable.

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 302

What is the purpose of a southbound API in a control based networking architecture?

- A. Facilities communication between the controller and the applications
- B. Facilities communication between the controller and the networking hardware
- C. allows application developers to interact with the network
- D. integrates a controller with other automation and orchestration tools.

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 303

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 304

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

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

Correct Answer: B

Section: choice

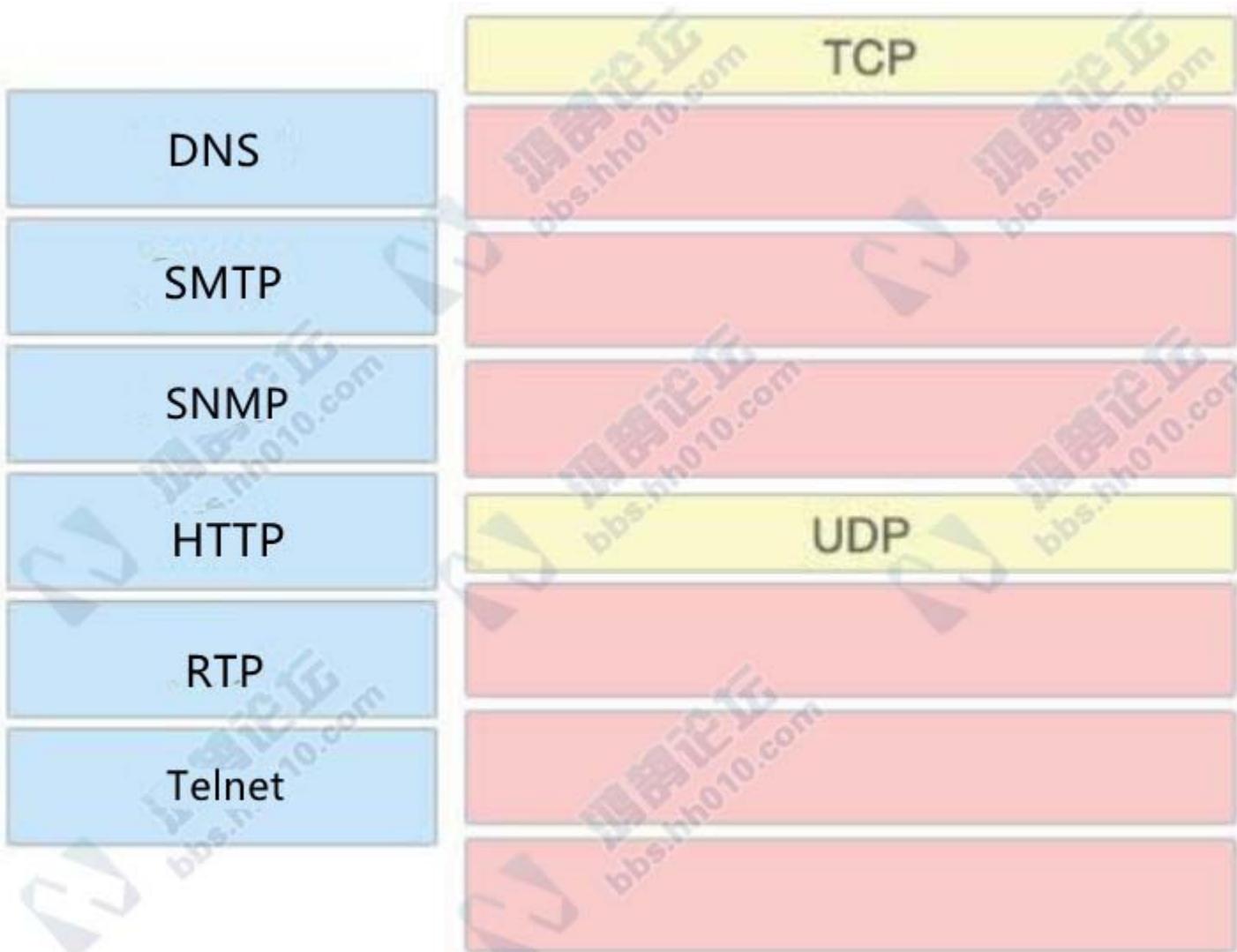
Explanation

Explanation/Reference:

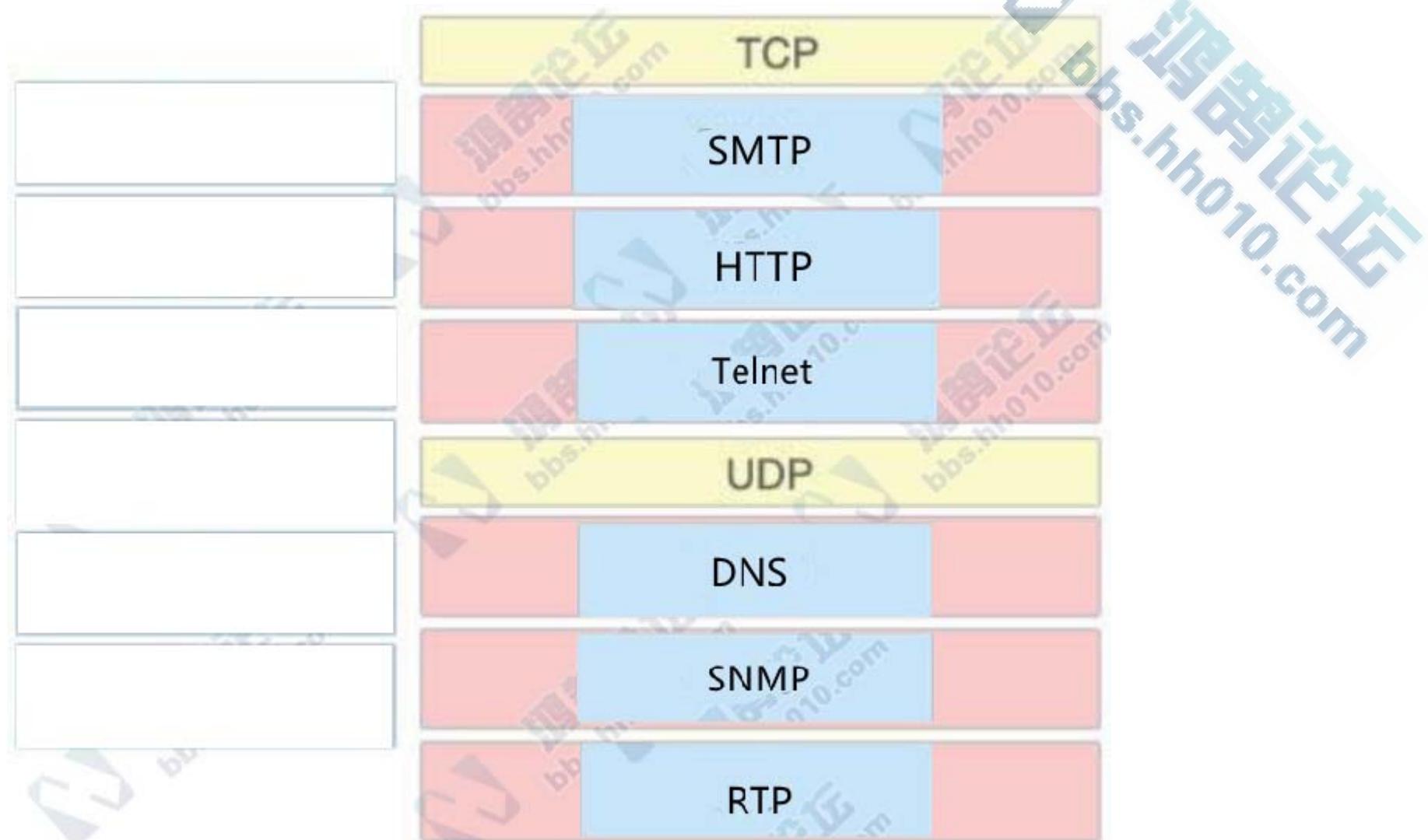
QUESTION 305

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

Select and Place:



Correct Answer:



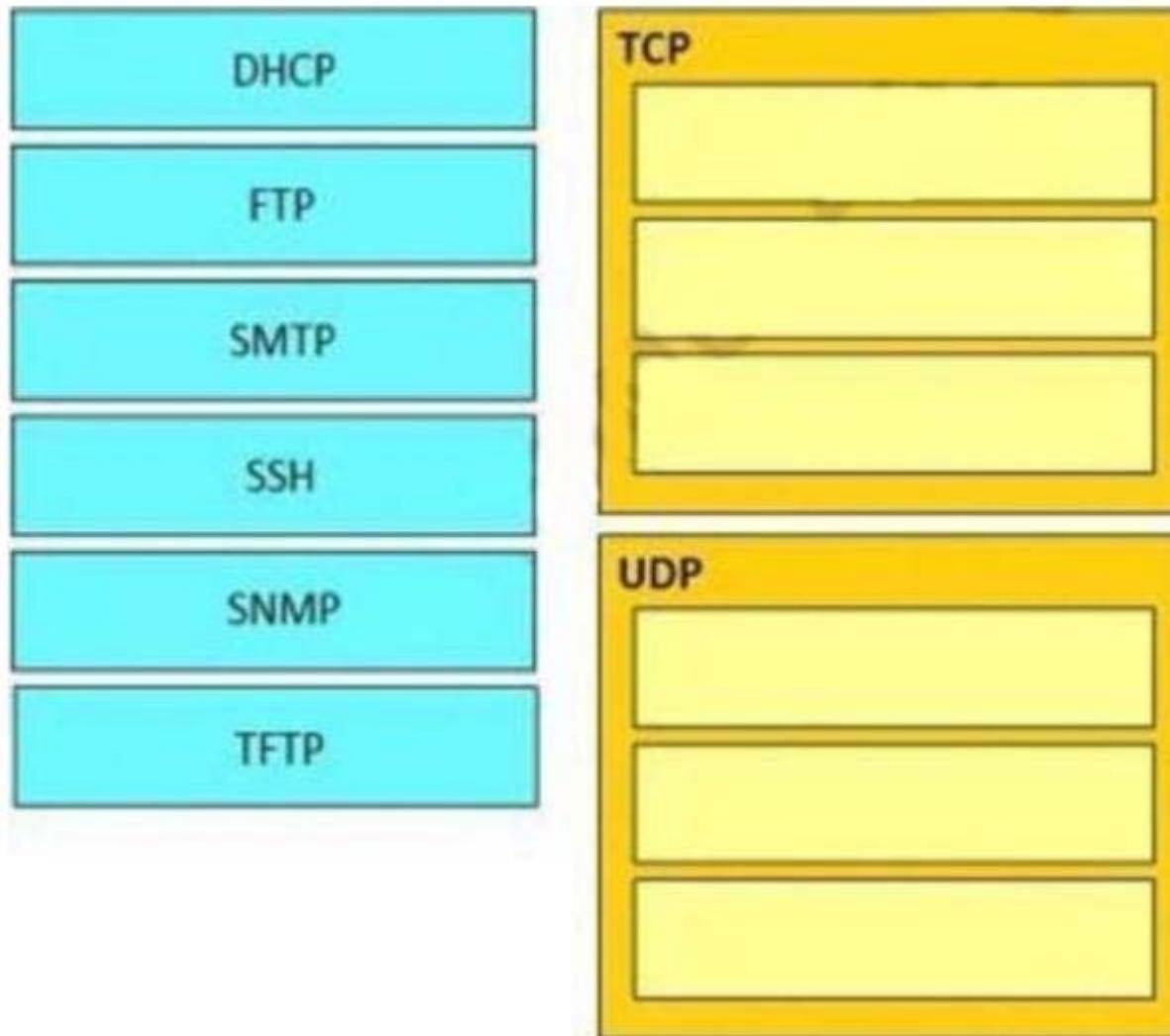
Section: drag-and-drop
Explanation

Explanation/Reference:

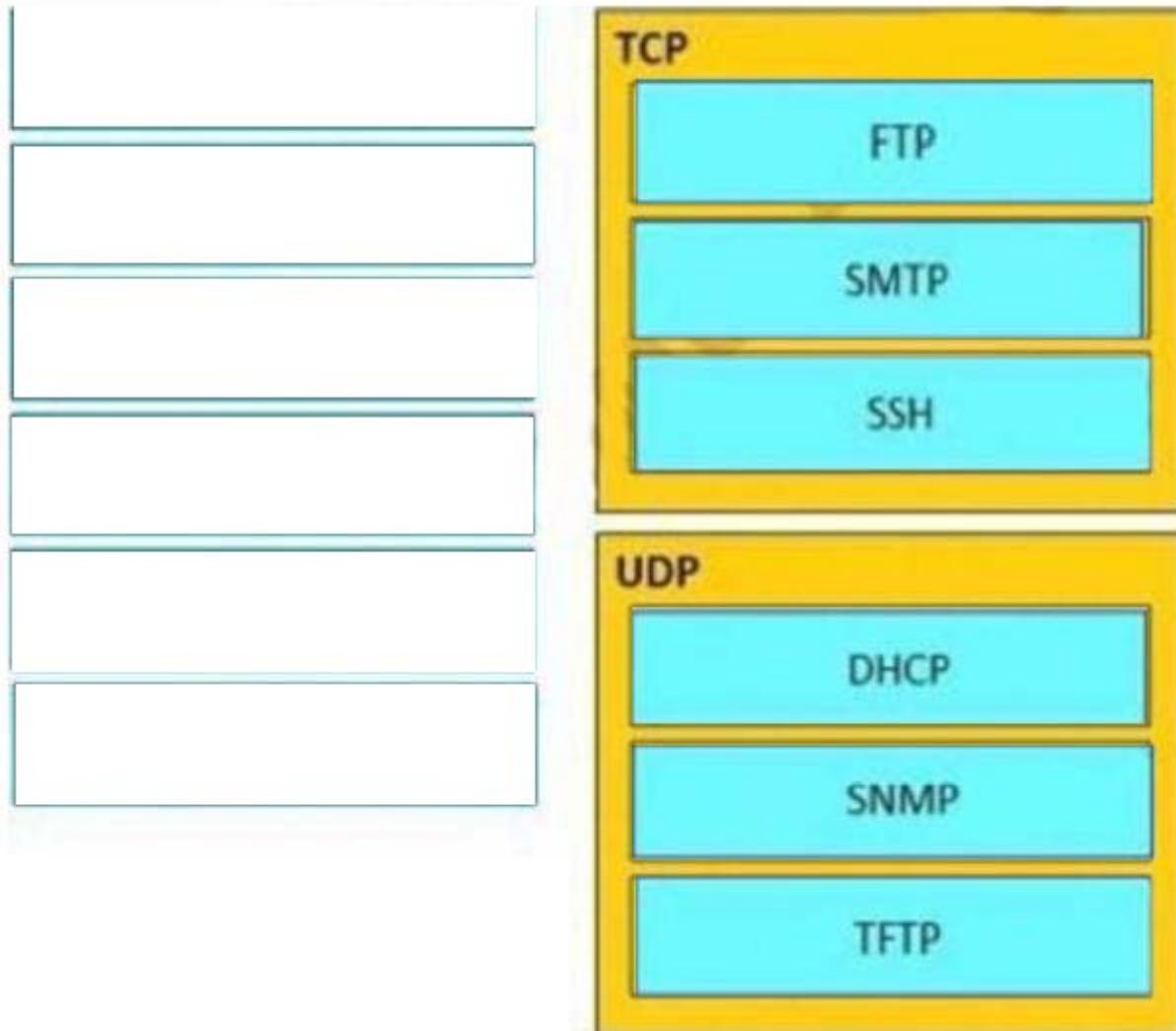
QUESTION 306

Drag and drop the application protocols from the left onto the transport protocols that it uses on the right.

Select and Place:



Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 307

Drag and drop the 802.11 wireless standards from the left onto the matching statements on the right

Select and Place:

802.11a	Operates in the 2.4 GHz and 5 GHz bands
802.11ac	Operates in the 2.4 GHz band only and supports a maximum data rate of 54 Mbps
802.11b	Operates in the 5 GHz band only and supports a maximum data rate that can exceed 100 Mbps
802.11g	supports a maximum data rate of 11 Mbps
802.11n	Operates in the 5 GHz band only and supports a maximum data rate of 54 Mbps

Correct Answer:

	802.11n
	802.11g
	802.11ac
	802.11b
	802.11a

Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 308

An engineer needs to add an old switch back into a network. To prevent the switch from corrupting the VLAN database which action must be taken?

- A. Add the switch in the VTP domain with a lower revision number
- B. Add the switch with DTP set to dynamic desirable
- C. Add the switch in the VTP domain with a higher revision number
- D. Add the switch with DTP set to desirable

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 309

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

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 310

What occurs when overlapping Wi-Fi channels are implemented?

- A. The wireless network becomes vulnerable to unauthorized access.
- B. Wireless devices are unable to distinguish between different SSIDs
- C. Users experience poor wireless network performance.
- D. Network communications are open to eavesdropping.

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 311

Which technology allows for multiple operating systems to be run on a single host computer?

- A. virtual routing and forwarding
- B. network port ID visualization
- C. virtual device contexts

D. server visualization

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 312

Which two QoS tools provides congestion management? (Choose two)

- A. CAR
- B. CBWFQ
- C. PQ
- D. PBR
- E. FRTS

Correct Answer: BC

Section: choice

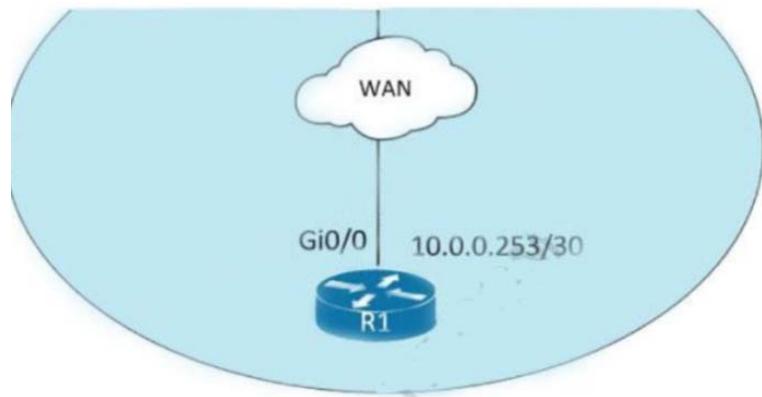
Explanation

Explanation/Reference:

Type of queuing methods are available:
* First-In-First-Out (FIFO)
* Priority Queuing (PQ)
* Custom Queuing (CQ)
* Weighted Fair Queuing (WFQ)
* Class-Based Weighted Fair Queuing (CBWFQ)
* LowLatency Queuing (LLQ)

QUESTION 313

Refer to the exhibit. An administrator must turn off the Cisco Discovery Protocol on the port configured with address last usable address in the 10.0.0.0/30 subnet. Which command set meets the requirement?



- A. interface gi0/1
no cdp enable
- B. interface gi0/1
clear cdp table
- C. interface gi0/0
no cdp advertise-v2
- D. interface gi0/0
no cdp run

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 314

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

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

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 315

What is a similarity between OM3 and OM4 fiber optic cable?

- A. Both have a 50 micron core diameter
- B. Both have a 9 micron core diameter
- C. Both have a 62.5 micron core diameter
- D. Both have a 100 micron core diameter

Correct Answer: A

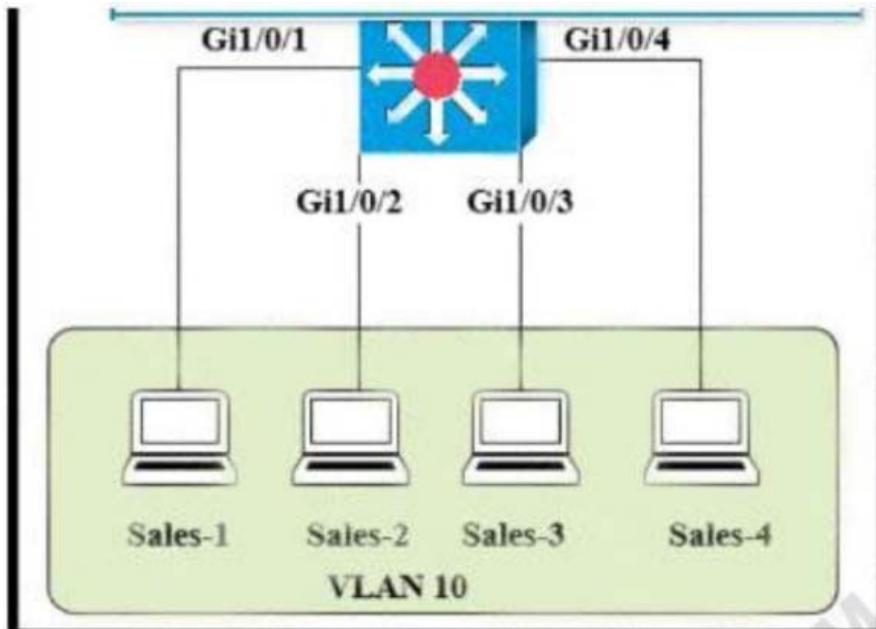
Section: choice

Explanation

Explanation/Reference:

QUESTION 316

Refer to the exhibit.



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

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

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

```
Sales-SW#
```

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 317

What describes the operation of virtual machines?

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

Correct Answer: B

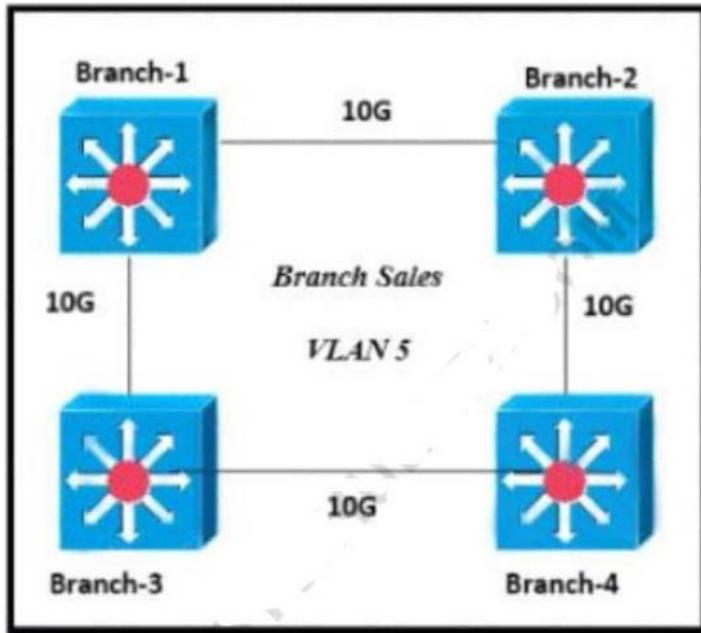
Section: choice

Explanation

Explanation/Reference:

QUESTION 318

Refer to the exhibit. Only four switches are participating in the VLAN spanning-tree process.



Branch-1 priority 614440

Branch-2: priority 39882416

Branch-3: priority 0

Branch-4: root primary

Which switch becomes the permanent root bridge for VLAN 5?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 319

When deploying syslog, which severity level logs informational message?

- A. 0
- B. 2
- C. 4
- D. 6

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 320

Refer to the exhibit. 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?

```
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
```

- A. Interface errors are incrementing

- B. An incorrect SFP media type was used at SiteA
- C. High usage is causing high latency
- D. The sites were connected with the wrong cable type

Correct Answer: C

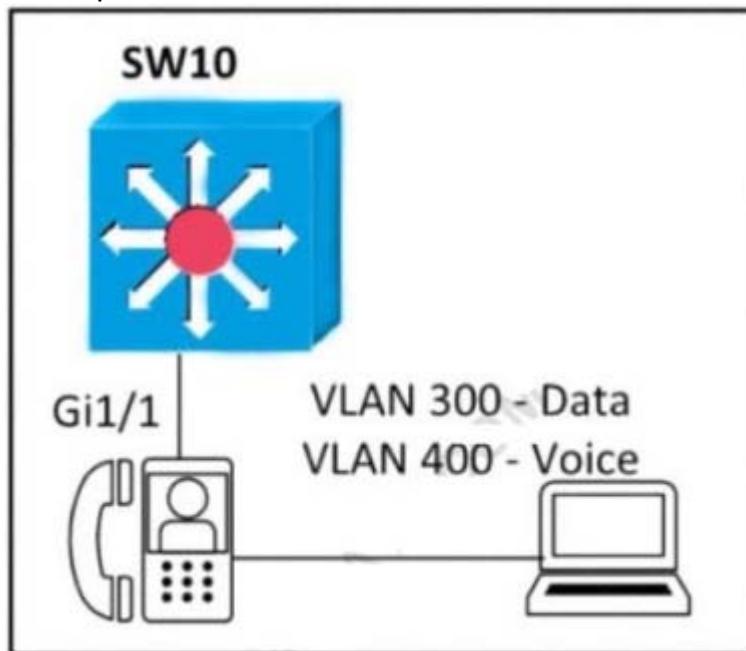
Section: choice

Explanation

Explanation/Reference:

QUESTION 321

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



- A. Interface gigabitethernet 1/1
Switchport mode access



- Switchport access vlan 300
- Switchport voice vlan 400
- B. Interface gigabitethernet 1/1
 - Switchport mode trunk
 - Switchport trunk vlan 300
 - Switchport voice vlan 400
- C. Interface gigabitethernet 1/1
 - Switchport mode trunk
 - Switchport trunk vlan 300
 - Switchport trunk vlan 400
- D. Interface gigabitethernet 1/1
 - Switchport mode access
 - Switchport voice vlan 300
 - Switchport access vlan 400

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 322

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 323

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. role-based access control
- B. biometrics
- C. multifactor authentication
- D. physical access control

Correct Answer: D

Section: choice

Explanation

Explanation/Reference:

QUESTION 324

Which network action occurs within the data plane?

- A. compare the destination IP address to the IP routing table
- B. run routing protocols (OSPF, EIGRP, RIP, BGP)
- C. make a configuration change from an incoming NETCONF RPC
- D. reply to an incoming ICMP echo request

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 325

Which networking function occurs on the data plane?

- A. forwarding remote client/server traffic

- B. facilitates spanning-tree elections
- C. processing inbound SSH management traffic
- D. sending and receiving OSPF Hello packets

Correct Answer: A

Section: choice

Explanation

Explanation/Reference:

QUESTION 326

A network administrator must to configure SSH for remote access to router R1. The requirement is to use a public and private key pair to encrypt management traffic to and from the connecting client. Which configuration, when applied, meets the requirements?

- A. R1#enable
R1#configure terminal
R1(config)#ip domain-name cisco.com
R1(config)#crypto key generate ec keysizze 2048
- B. R1#enable
R1#configure terminal
R1(config)#ip domain-name cisco.com
R1(config)#crypto key generate rsa modulus 1024
- C. R1#enable
R1#configure terminal
R1(config)#ip domain-name cisco.com
R1(config)#crypto key generate ec keysizze 1024
- D. R1#enable
R1#configure terminal
R1(config)#ip domain-name cisco.com
R1(config)#crypto key encrypt rsa name myKey

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 327

Which protocol does an access point use to draw power from a connected switch?

- A. Internet Group Management Protocol
- B. Adaptive Wireless Path Protocol
- C. Cisco Discovery Protocol
- D. Neighbor Discovery Protocol

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 328

What is the benefit of using FHRP?

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 329

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

Correct Answer: C

Section: choice

Explanation

Explanation/Reference:

QUESTION 330

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

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

Correct Answer: B

Section: choice

Explanation

Explanation/Reference:

QUESTION 331

Drag and drop the functions of DHCP from the left onto any of the positions on the right (Not all functions are used)

Select and Place:

provides local control for network segments using a client-server scheme

1

reduces the administrative burden for onboarding end users

2

associates hostnames to IP addresses

3

maintains an address pool

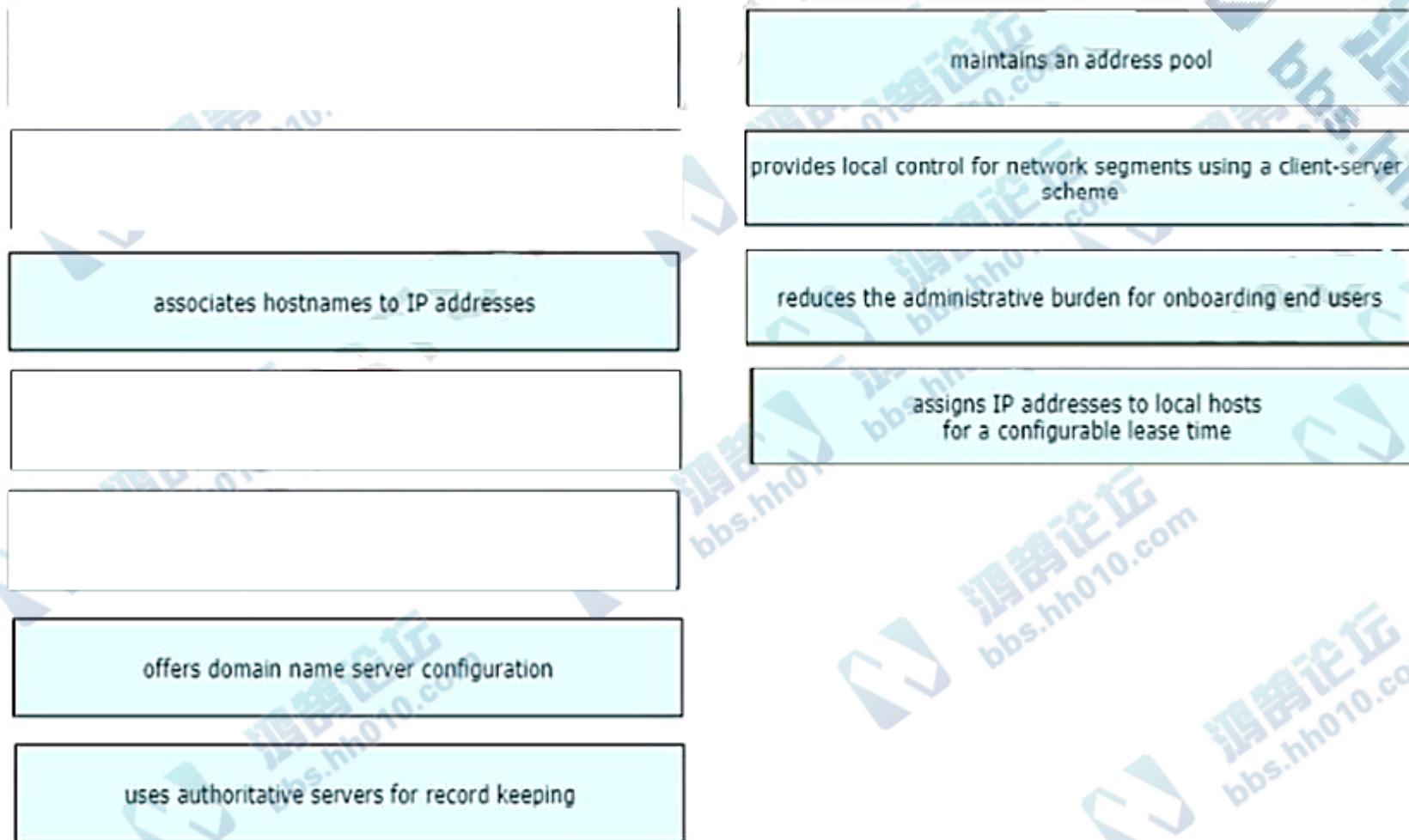
4

assigns IP addresses to local hosts
for a configurable lease time

offers domain name server configuration

uses authoritative servers for record keeping

Correct Answer:



Section: drag-and-drop
Explanation

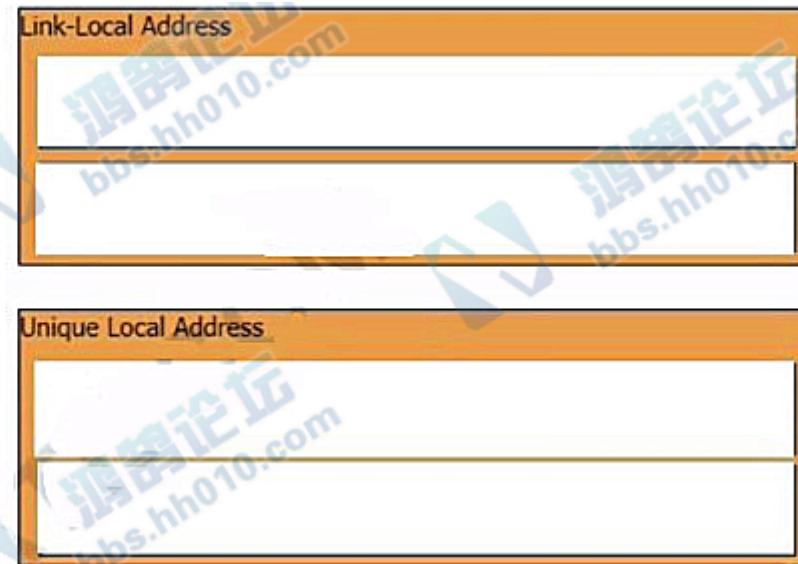
Explanation/Reference:

QUESTION 332

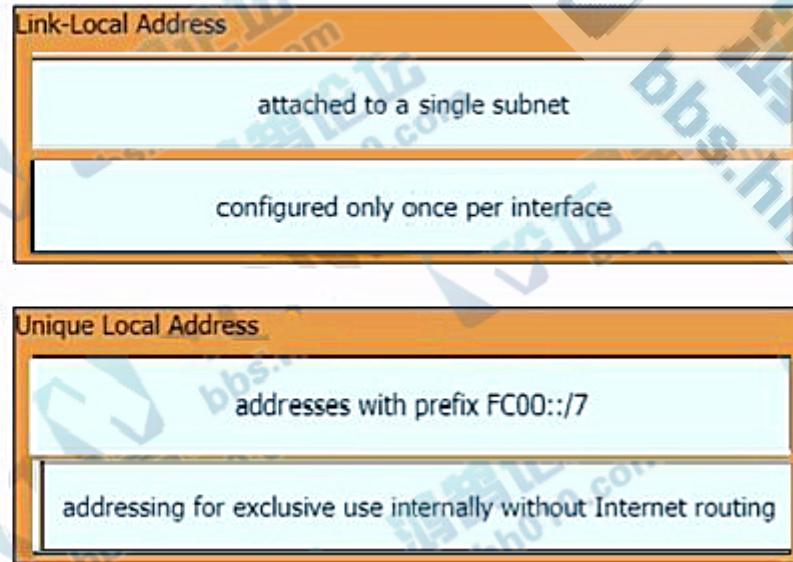
Drag and drop the IPv6 address type characteristics from the left to the right

Select and Place:

- attached to a single subnet
- addresses with prefix FC00::/7
- configured only once per interface
- addressing for exclusive use internally without Internet routing



Correct Answer:



Section: drag-and-drop
Explanation

Explanation/Reference:

QUESTION 333

An engineer is configuring an encrypted password for the enable command on a router where the local user database has already been configured. Drag and drop the configuration commands from the left into the correct sequence on the right (Not all commands are used)

Select and Place:

configure terminal

first

enable

second

enable secret \$hf1@4fs

third

exit

fourth

line vty 0 4

service password-encryption

Correct Answer:



Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 334

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

Select and Place:

The type deploys a consistent configuration across multiple device

A distributed control plane is needed

This type requires a distributed management plane.

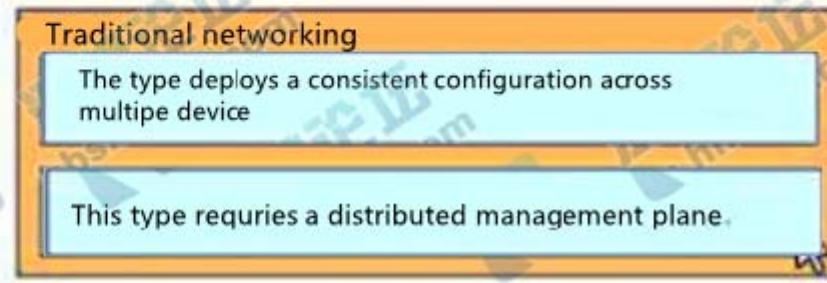
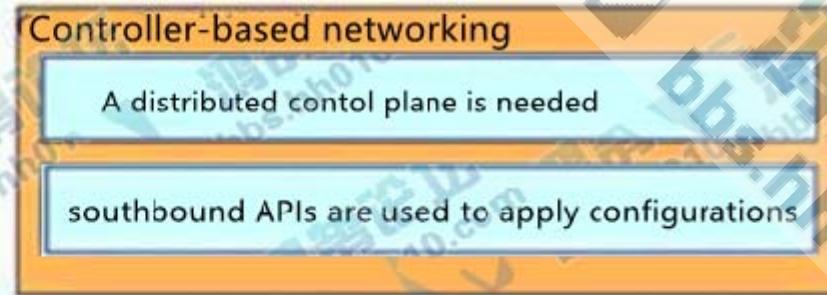
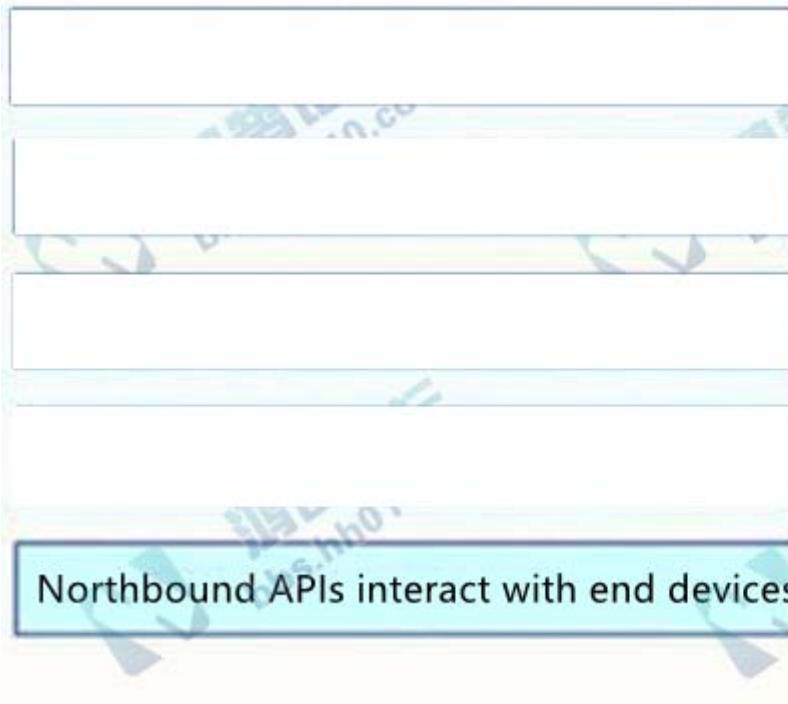
southbound APIs are used to apply configurations

Northbound APIs interact with end devices

Controller-based networking

Traditional networking

Correct Answer:



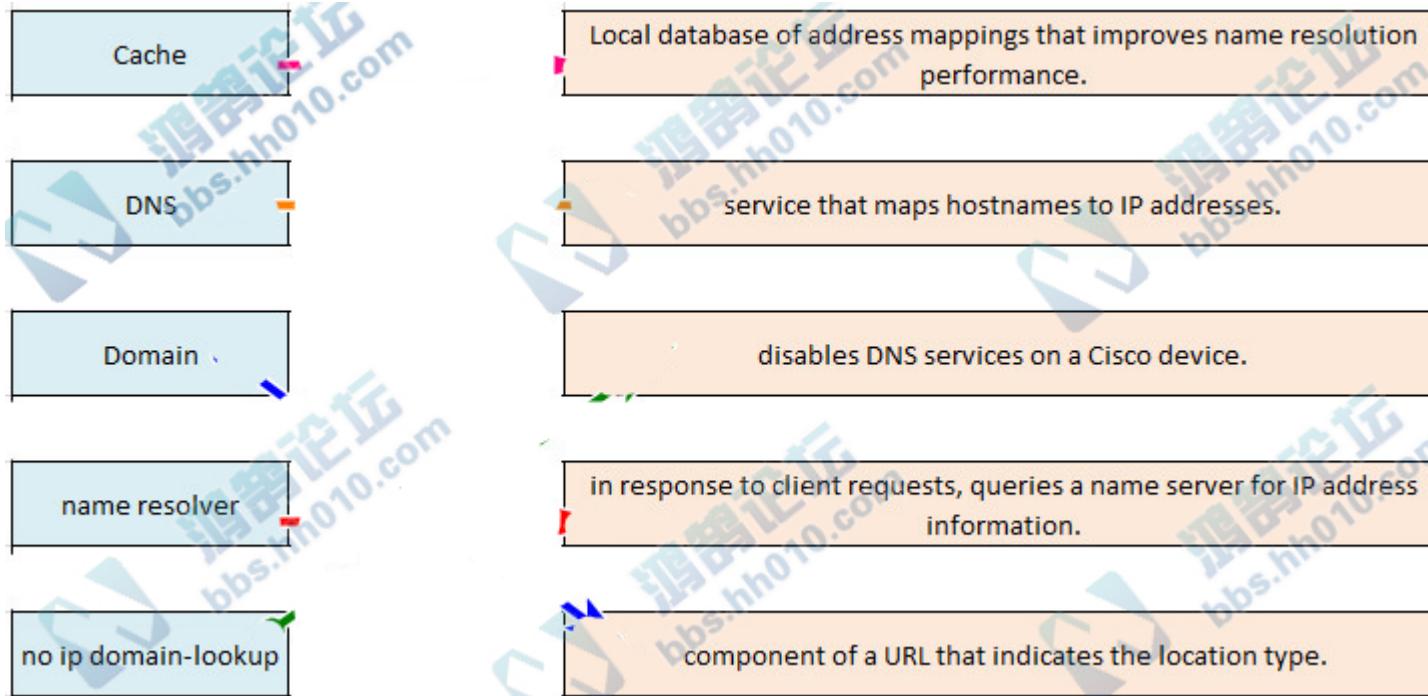
Section: drag-and-drop
Explanation

Explanation/Reference:

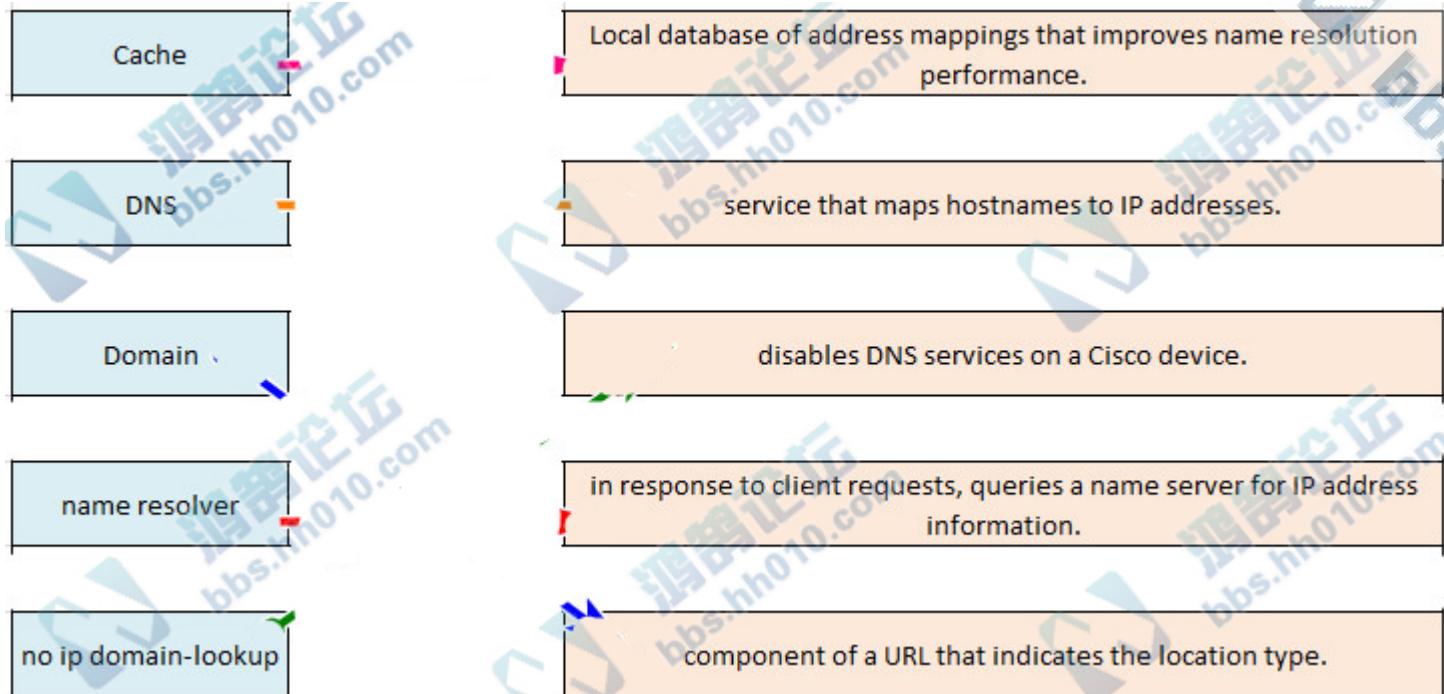
QUESTION 335

Drag and drop the DNS lookup components from the left onto the functions on the right.

Select and Place:



Correct Answer:



Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 336

Drag and drop the AAA terms from the left onto the description on the right.

Select and Place:

Accounting	tracks activity
Authentication	updates section attributes
Authorization	verifies access rights
CoA	verifies identity

Correct Answer:

	Accounting
	CoA
	Authorization
	Authentication

Section: drag-and-drop

Explanation

Explanation/Reference:

QUESTION 337

What are two characteristics of the distribution layer in a three-tier network architecture? (Choose two.)

- A. serves as the network aggregation point
- B. provides a boundary between Layer 2 and Layer 3 communications
- C. designed to meet continuous, redundant uptime requirements
- D. is the backbone for the network topology

- E. physical connection point for a LAN printer

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 338

Refer to the exhibit. What is the metric of the route to the 192.168.10.33/28 subnet?

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - ODR, P - periodic downloaded static route
Gateway of last resort is 192.168.30.10 to network 0.0.0.0

  192.168.30.0/29 is subnetted, 2 subnets
C        192.168.30.0 is directly connected, FastEthernet0/0
C        192.168.30.8 is directly connected, Serial0/0.1
  192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
O  IA   192.168.10.32/28 [110/193] via 192.168.30.10, 00:18:49, Serial0/0.1
O  IA   192.168.10.0/27 [110/192] via 192.168.30.10, 00:18:49, Serial0/0.1
  192.168.20.0/30 is subnetted, 1 subnets
O  IA   192.168.20.0 [110/128] via 192.168.30.10, 00:18:49, Serial0/0.1
  192.168.50.0/32 is subnetted, 1 subnets
C        192.168.50.1 is directly connected, Loopback0
O*IA 0.0.0.0/0 [110/84] via 192.168.30.10, 00:10:36, Serial0/0.1
```

- A. 84
- B. 110
- C. 128
- D. 192
- E. 193

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 339

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

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

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 340

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 341

Which plane is centralized by an SON controller?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 342

Which function is performed by DHCP snooping?

- A. propagates VLAN information between switches
- B. listens to multicast traffic for packet forwarding
- C. provides DDoS mitigation
- D. rate-limits certain traffic

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 343

A network administrator is asked to configure VLANS 2, 3 and 4 for a new implementation. Some ports must be assigned to the new VLANs with unused remaining. Which action should be taken for the unused ports?

- A. configure port in the native VLAN

- B. configure ports in a black hole VLAN
- C. configure in a nondefault native VLAN
- D. configure ports as access ports

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 344

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

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

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 345

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 placed into the Managed state.
- E. The device is assigned to the Local site.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 346

An engineer configures interface Gi1/0 on the company PE router to connect to an ISP. Neighbor discovery is disabled. Which action is necessary to complete the configuration if the ISP uses third-party network devices?

```
interface Gi1/0
description HQ
duplex full
speed 100
negotiation auto
lldp transmit
lldp receive
```

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 347

What must be considered when using 802.11a?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 348

What does physical access control regulate?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 349

What are network endpoints?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 350

How does QoS optimize voice traffic?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 351

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

- A. 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.
- 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. UDP is used for multicast and broadcast communication. TCP is used for unicast communication and transmits data at a higher rate

- with error checking.
- D. TCP requires the connection to be established before transmitting data. UDP transmits data at a higher rate without ensuring packet delivery.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 352

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 353

What uses HTTP messages to transfer data to applications residing on different hosts?

- A. OpenFlow
- B. OpenStack
- C. OpFlex
- D. REST

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 354

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 355

Which 802.11 management frame type is sent when a client roams between access points on the same SSID?

- A. Reassociation Request
- B. Probe Request
- C. Authentication Request
- D. Association Request

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 356

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. Re- Anchor Roamed Clients
- B. 11ac MU-MIMO
- C. OEAP Split Tunnel
- D. Client Band Select

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 357

What is a characteristic of private IPv4 addressing?

- A. traverse the Internet when an outbound ACL is applied
- B. issued by IANA in conjunction with an autonomous system number
- C. composed of up to 65,536 available addresses
- D. used without tracking or registration

Correct Answer: D

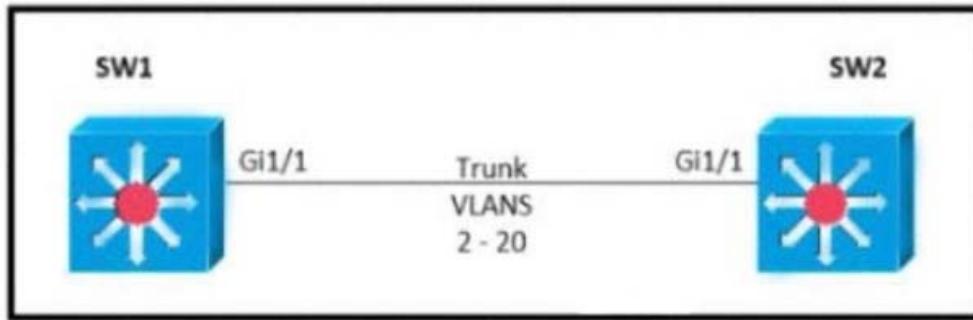
Section: (none)

Explanation

Explanation/Reference:

QUESTION 358

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



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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 359

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

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

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 360

An engineer must configure the IPv6 address 2001:0db8:0000:0000:0700:0003:400F:572B on the serial0/0 interface of the HQ router and wants to compress it for easier configuration. Which command must be issued on the router interface?

- A. ipv6 address 2001:db8::700:3:400F:572B
- B. ipv6 address 2001:db8:0::700:3:4F:572B
- C. ipv6 address 2001:0db8::7:3:4F:572B
- D. ipv6 address 2001::db8:0000::700:3:400F:572B

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 361

Which WLC port connects to a switch to pass normal access-point traffic?

- A. redundancy
- B. console
- C. distribution system
- D. service

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 362

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

- A. logging trap 5
- B. logging trap 2
- C. logging trap 4
- D. logging trap 3

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 363

Which two protocols are supported on service-port interfaces? (Choose two.)

- A. RADIUS
- B. TACACS+
- C. SCP
- D. Telnet
- E. SSH

Correct Answer: DE

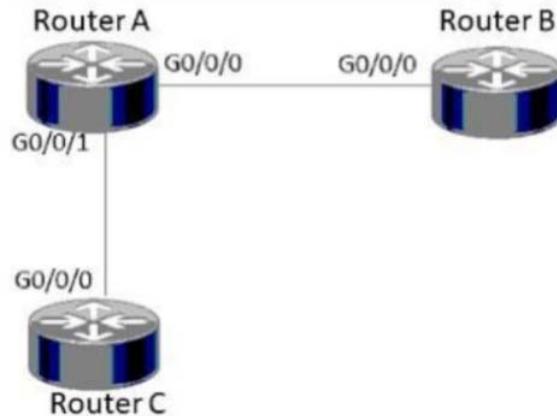
Section: (none)

Explanation

Explanation/Reference:

QUESTION 364

Refer to the exhibit. How must router A be configured so that it only sends Cisco Discovery Protocol Information to router C?



- A. #config t
 Router A(config)#cdp run
 Router A(config)#interface gi0/0/0
 Router A(config-if)#no cdp enable
- B. #config t
 Router A(config)#cdp run
 Router A(config)#interface gi0/0/0
 Router A(config-if)#cdp enable
- C. #config t
 Router A(config)#cdp run
 Router A(config)#interface gi0/0/1
 Router A(config-if)#cdp enable
- D. #config t
 Router A(config)#no cdp run
 Router A(config)#interface gi0/0/1
 Router A(config-if)#cdp enable

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 365

What are two purpose of HSRP?(choose two)

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

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 366

What is a specification for SSIDs ?

- A. They are case sensitive
- B. They define the VLAN on a switch
- C. They must include one number and one letter
- D. They are a Cisco proprietary security feature

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 367

What are two port types used by a Cisco WLC for out-of-band management?(choose two)

- A. console
- B. service
- C. management
- D. redundant
- E. redundant

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 368

What is the purpose of using the “?”(question mark)with the URI of REST API query?

- A. It is used to request contextual help about the API usage
- B. It permits the server to disregard the protocol specified,with allows the server to use any protocols
- C. It prevent the sever from sending any errors in the answer
- D. It precedes the query parameters when performing a GET request

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 369

Which global command encrypt all passwords in the running configuration?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 370

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 371

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 372

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 373

Which QoS tool is used to optimize voice traffic on a network that is primarily intended for data traffic?

- A. FIFO
- B. WFQ
- C. PQ
- D. WRED

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 374

When a client and server are not on the same physical network, which device is used to forward requests and replies between client and server for DHCP?

- A. DHCP relay agent

- B. DHCP server
- C. DHCPDISCOVER
- D. DHCPOFFER

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 375

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

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 376

How are VLAN hopping attacks mitigated?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 377

What is the benefit of configuring PortFast on an interface?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 378

What is the role of a firewall in an enterprise network?

- A. Forwards packets based on stateless packet inspection
- B. Processes unauthorized packets and allows passage to less secure segments of the network
- C. determines which packets are allowed to cross from unsecured to secured networks
- D. explicitly denies all packets from entering an administrative domain

Correct Answer: C

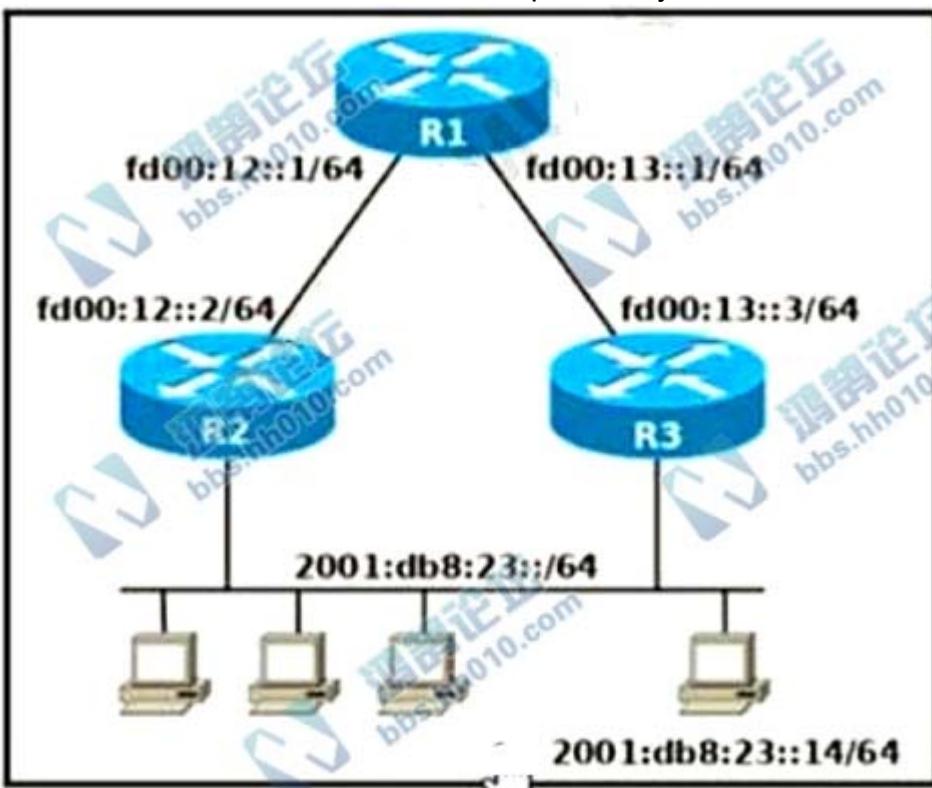
Section: (none)

Explanation

Explanation/Reference:

QUESTION 379

Refer to the exhibit. Which two commands, when configured on router R1, fulfill these requirements? (Choose two.)
packets towards the entire network 2001:db8:2::/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::/128 fd00:12::2
- B. Ipv6 route 2001:db8:23::14/128 fd00:13::3
- C. Ipv6 route 2001:db8:23::14/64 fd00:12::2
- D. Ipv6 route 2001:db8:23::/64 fd00:12::2
- E. Ipv6 route 2001:db8:23::14/64 fd00:12::2 200

Correct Answer: BD
Section: (none)

Explanation

Explanation/Reference:

QUESTION 380

When a site-to-site VPN is configured, which IPsec mode provides encapsulation and encryption of the entire original P packet?

- A. IPsec tunnel mode with AH
- B. IPsec transport mode with AH
- C. IPsec tunnel mode with ESP
- D. IPsec transport mode with ESP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference: