

Cisco

Exam Questions 350-401

Implementing and Operating Cisco Enterprise Network Core Technologies



NEW QUESTION 1

Which function does a fabric edge node perform in an SD-Access deployment?

- A. Connects the SD-Access fabric to another fabric or external Layer 3 networks
- B. Connects endpoints to the fabric and forwards their traffic
- C. Provides reachability border nodes in the fabric underlay
- D. Encapsulates end-user data traffic into LISP.

Answer: A

NEW QUESTION 2

What is the structure of a JSON web token?

- A. three parts separated by dots: header payload, and signature
- B. header and payload
- C. three parts separated by dots: version header and signature
- D. payload and signature

Answer: A

NEW QUESTION 3

An engineer is configuring local web authentication on a WLAN. The engineer chooses the Authentication radio button under the Layer 3 Security options for Web Policy. Which device presents the web authentication for the WLAN?

- A. ISE server
- B. local WLC
- C. RADIUS server
- D. anchor WLC

Answer: B

NEW QUESTION 4

A network is being migrated from IPV4 to IPV6 using a dual-stack approach. Network management is already 100% IPV6 enabled. In a dual-stack network with two dual-stack NetFlow collections, how many flow exporters are needed per network device in the flexible NetFlow configuration?

- A. 1
- B. 2
- C. 4
- D. 8

Answer: B

NEW QUESTION 5

Refer to the exhibit.

```
Extended IP access list EGRESS
10 permit ip 10.0.0.0 0.0.0.255 any
|
<Output Omitted>
|
interface GigabitEthernet0/0
ip address 209.165.200.225 255.255.255.0
ip access-group EGRESS out
duplex auto
speed auto
media-type rj45
|
```

An engineer must block all traffic from a router to its directly connected subnet 209.165.200.0/24. The engineer applies access control list EGRESS in the outbound direction on the GigabitEthernet0/0 interface of the router. However, the router can still ping hosts on the 209.165.200.0/24 subnet. Which

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

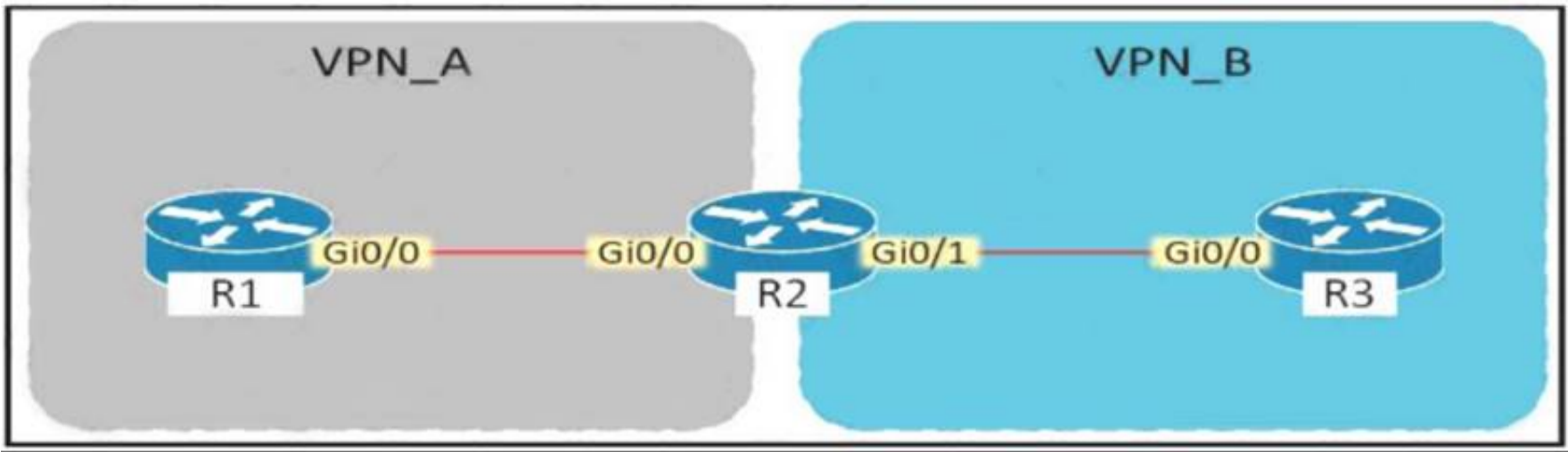
of this behavior is true?

- A. Access control lists that are applied outbound to a router interface do not affect traffic that is sourced from the router.
- B. Only standard access control lists can block traffic from a source IP address.
- C. After an access control list is applied to an interface, that interface must be shut and no shut for the access control list to take effect.
- D. The access control list must contain an explicit deny to block traffic from the router.

Answer: A

NEW QUESTION 6

Refer to the exhibit.



Assuming that R is a CE router, which VRF is assigned to Gi0/0 on R1?

- A. VRF VPN_B
- B. Default VRF
- C. Management VRF
- D. VRF VPN_A

Answer: D

NEW QUESTION 7

Which two steps are required for a complete Cisco DNA Center upgrade? (Choose two.)

- A. golden image selection
- B. automation backup
- C. proxy configuration
- D. application updates
- E. system update

Answer: DE

NEW QUESTION 8

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

causes TCP retransmissions when traffic is dropped

buffers excessive traffic

introduces no delay and jitter

introduces delay and jitter

drops excessive traffic

typically delays, rather than drops traffic

Traffic Policing

Traffic Shaping

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Traffic Policing: Drops excessive Traffic, causes TCP retransmissions, introduce no delay/jitter Shaping: buffers, excessive traffic, introduce delay and jitter, typically delays, rather than drops traffic

NEW QUESTION 9

When configuration WPA2 Enterprise on a WLAN, which additional security component configuration is required?

- A. NTP server
- B. PKI server
- C. RADIUS server
- D. TACACS server

Answer: C

NEW QUESTION 10

Which statement about agent-based versus agentless configuration management tools is true?

- A. Agentless tools require no messaging systems between master and slaves.
- B. Agentless tools use proxy nodes to interface with slave nodes.
- C. Agent-based tools do not require a high-level language interpreter such as Python or Ruby on slave nodes.
- D. Agent-based tools do not require installation of additional software packages on the slave nodes.

Answer: D

NEW QUESTION 10

If a VRRP master router fails, which router is selected as the new master router?

- A. router with the highest priority
- B. router with the highest loopback address
- C. router with the lowest loopback address
- D. router with the lowest priority

Answer: A

NEW QUESTION 14

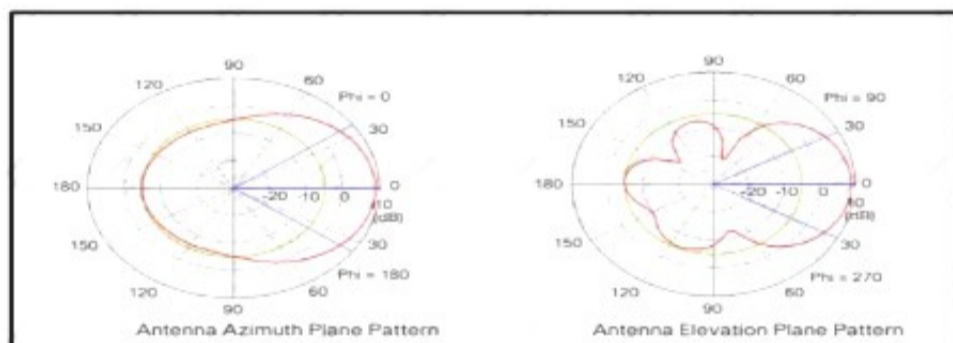
Which HTTP status code is the correct response for a request with an incorrect password applied to a REST API session?

- A. HTTP Status Code 200
- B. HTTP Status Code 302
- C. HTTP Status Code 401
- D. HTTP Status Code: 504

Answer: C

NEW QUESTION 19

Refer to the exhibit.



Which type of antenna do the radiation patterns present?

- A. Patch
- B. Omnidirectional
- C. Yagi
- D. Dipole

Answer: A

NEW QUESTION 20

Which statement about Cisco Express Forwarding is true?

- A. It uses a fast cache that is maintained in a router data plane.
- B. maintains two tables in the data plane the FIB and adjacency table.
- C. It makes forwarding decisions by a process that is scheduled through the IOS scheduler.
- D. The CPU of a router becomes directly involved with packet-switching decisions.

Answer: B

NEW QUESTION 23

Which statement explains why Type 1 hypervisor is considered more efficient than Type 2 hypervisor?

- A. Type 1 hypervisor runs directly on the physical hardware of the host machine without relying on the underlying OS.
- B. Type 1 hypervisor enables other operating systems to run on it.
- C. Type 1 hypervisor relies on the existing OS of the host machine to access CPU, memory, storage, and network resources.
- D. Type 1 hypervisor is the only type of hypervisor that supports hardware acceleration techniques.

Answer: A

NEW QUESTION 26

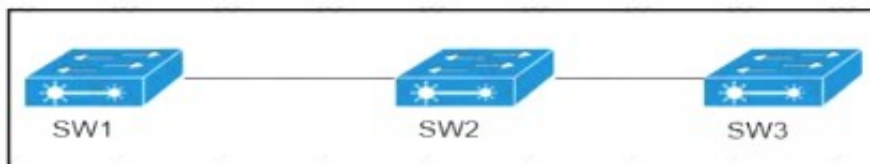
Which method does the enable secret password option use to encrypt device passwords?

- A. AES
- B. CHAP
- C. PAP
- D. MD5

Answer: D

NEW QUESTION 28

Refer to exhibit.



VLANs 50 and 60 exist on the trunk links between all switches. All access ports on SW3 are configured for VLAN 50 and SW1 is the VTP server. Which command ensures that SW3 receives frames only from VLAN 50?

- A. SW1 (config)#vtp pruning
- B. SW3(config)#vtp mode transparent
- C. SW2(config)=vtp pruning
- D. SW1 (config >»vtp mode transparent

Answer: A

NEW QUESTION 33

What is a benefit of deploying an on-premises infrastructure versus a cloud infrastructure deployment?

- A. faster deployment times because additional infrastructure does not need to be purchased
- B. lower latency between systems that are physically located near each other
- C. less power and cooling resources needed to run infrastructure on-premises
- D. ability to quickly increase compute power without the need to install additional hardware

Answer: B

NEW QUESTION 36

What is a benefit of data modeling languages like YANG?

- A. They enable programmers to change or write their own application within the device operating system.
- B. They create more secure and efficient SNMP OIDs.
- C. They make the CLI simpler and more efficient.
- D. They provide a standardized data structure, which results in configuration scalability and consistency.

Answer: D

NEW QUESTION 39

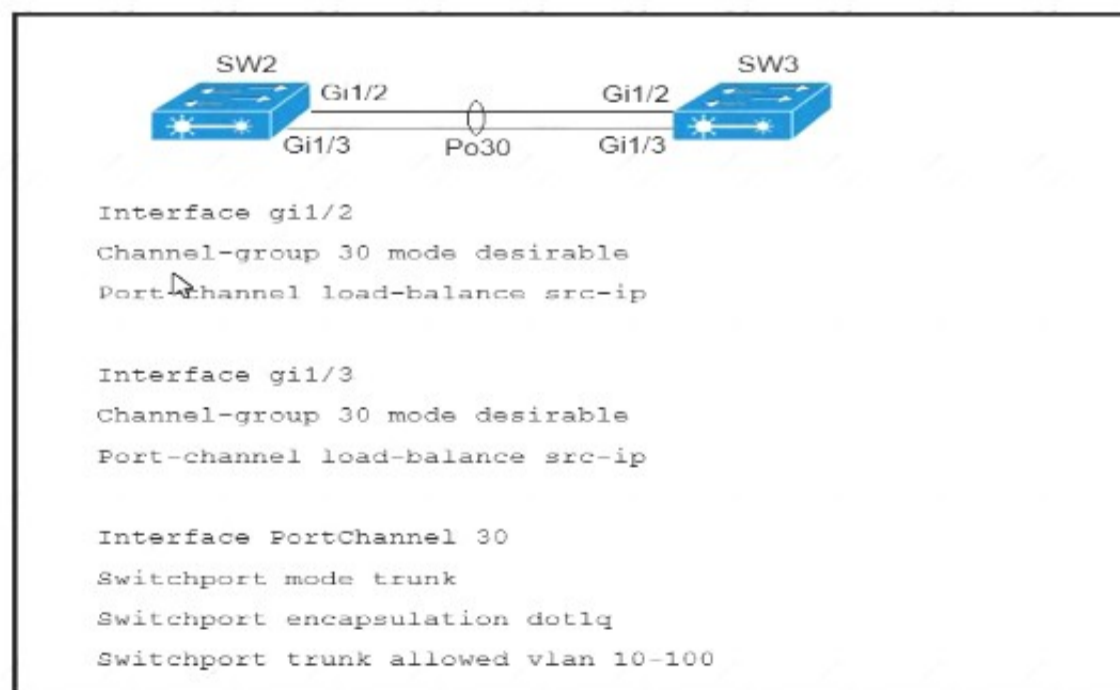
Which statement describes the IP and MAC allocation requirements for virtual machines on types 1 hypervisors?

- A. Each virtual machine requires a unique IP and MAC addresses to be able to reach to other nodes.
- B. Each virtual machine requires a unique IP address but shares the MAC address with the physical server.
- C. Each virtual machines requires a unique IP address but shares the MAC address with the address of the physical server.
- D. Each virtual machine requires a unique MAC address but shares the IP address with the physical server.

Answer: A

NEW QUESTION 41

Refer to the exhibit.



A port channel is configured between SW2 and SW3. SW2 is not running a Cisco operating system. When all physical connections are made, the port channel does not establish. Based on the configuration excerpt of SW3, what is the cause of the problem?

- A. The port channel on SW2 is using an incompatible protocol.
- B. The port-channel trunk is not allowing the native VLAN.
- C. The port-channel should be set to auto.

D. The port-channel interface load balance should be set to src-mac

Answer: A

NEW QUESTION 46

Which standard access control entry permits from odd-numbered hosts in the 10.0.0.0/24 subnet?

- A. Permit 10.0.0.0.0.0.1
- B. Permit 10.0.0.1.0.0.0.0
- C. Permit 10.0.0.1.0.0.0.254
- D. Permit 10.0.0.0.255.255.255.254

Answer: C

NEW QUESTION 48

Which statements are used for error handling in Python?

- A. try/catch
- B. try/except
- C. block/rescue
- D. catch/release

Answer: B

NEW QUESTION 49

A local router shows an EBGp neighbor in the Active state. Which statement is true about the local router?

- A. The local router has active prefix in the forwarding table from the neighboring router
- B. The local router has BGP passive mode configured for the neighboring router
- C. The local router is attempting to open a TCP session with the neighboring router.
- D. The local router is receiving prefixes from the neighboring router and adding them in RIB-IN

Answer: C

NEW QUESTION 52

At which Layer does Cisco DNA Center support REST controls?

- A. EEM applets or scripts
- B. Session layer
- C. YMAL output from responses to API calls
- D. Northbound APIs

Answer: D

NEW QUESTION 54

Refer to the exhibit.



The WLC administrator sees that the controller to which a roaming client associates has Mobility Role Anchor configured under Clients > Detail. Which type of roaming is supported?

- A. Indirect
- B. Layer 3 intercontroller
- C. Layer 2 intercontroller
- D. Intracontroller

Answer: B

NEW QUESTION 59

Refer to this output. What is the logging severity level?

R1#Feb 14 37:15:12:429: %LINEPROTO-5-UPDOWN Line protocol on interface GigabitEthernet0/1. Change state to up

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

Answer: A

NEW QUESTION 63

Which feature must be configured to allow packet capture over Layer 3 infrastructure'?

- A. VSPAN
- B. IPSPAN
- C. RSPAN
- D. ERSPAN

Answer: D

NEW QUESTION 66

What is the difference between the enable password and the enable secret password when service password encryption is enable on an IOS device?

- A. The enable password is encrypted with a stronger encryption method.
- B. There is no difference and both passwords are encrypted identically.
- C. The enable password cannot be decrypted.
- D. The enable secret password is protected via stronger cryptography mechanisms.

Answer: D

NEW QUESTION 68

Which QoS component alters a packet to change the way that traffic is treated in the network?

- A. Marking
- B. Classification
- C. Shaping
- D. Policing

Answer: A

NEW QUESTION 70

How does Cisco Trustsec enable more flexible access controls for dynamic networking environments and data centers?

- A. uses flexible NetFlow
- B. assigns a VLAN to the endpoint
- C. classifies traffic based an the contextual identity of the endpoint rather than its IP address
- D. classifies traffic based on advanced application recognition

Answer: C

NEW QUESTION 73

Which two methods are used by an AP that is typing to discover a wireless LAN controller? (Choose two.)

- A. Cisco Discovery Protocol neighbour
- B. broadcasting on the local subnet
- C. DNS lookup cisco-DNA-PRIMARY.localdomain
- D. DHCP Option 43
- E. querying other APs

Answer: CD

NEW QUESTION 75

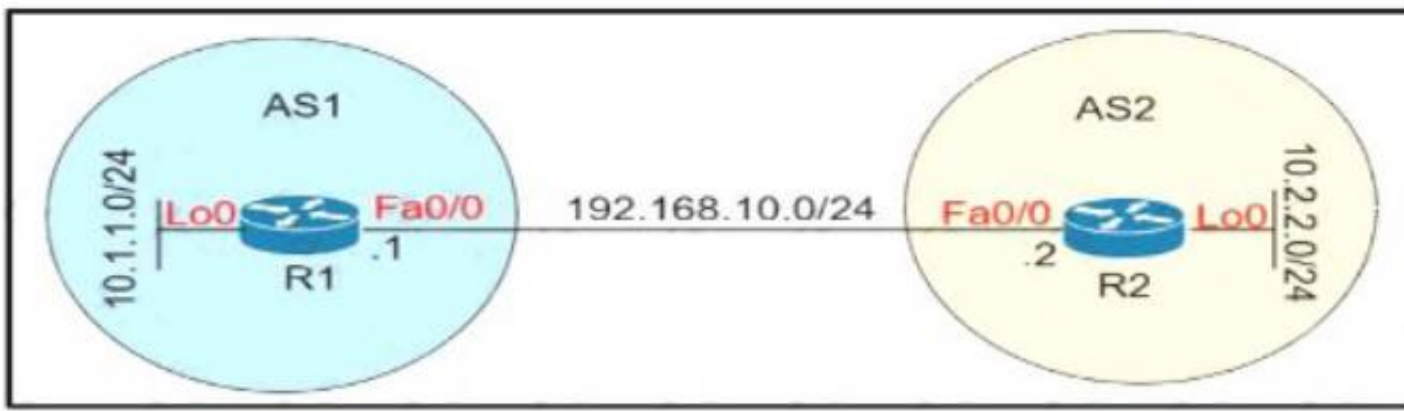
Which description of an SD-Access wireless network infrastructure deployment is true?

- A. The access point is part of the fabric underlay.
- B. The WLC is part of the fabric underaly.
- C. The access point is part the fabirc overlay.
- D. The wireless client is part of the fabirc overlay.

Answer: C

NEW QUESTION 79

Refer to the exhibit.



Which configuration establishes EBGp neighborhood between these two directly connected neighbors and exchanges the loopback network of the two routers through BGP?

- A)
- ```
R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
```
- B)
- ```
R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
```
- C)
- ```
R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.0.0.0 mask 255.0.0.0

R2(config)#router bgp 2
R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.0.0.0 mask 255.0.0.0
```
- D)
- ```
R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#neighbor 10.2.2.2 update-source lo0
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#neighbor 10.1.1.1 update-source lo0
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
```

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

Answer: A

NEW QUESTION 84

Which statement about TLS is true when using RESTCONF to write configurations on network devices?

- A. It is provided using NGINX acting as a proxy web server.
 B. It is no supported on Cisco devices.
 C. It required certificates for authentication.
 D. It is used for HTTP and HTTPs requests.

Answer: C

NEW QUESTION 88

Refer to the exhibit.

```
Extended IP access list EGRESS
10 permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255
20 deny ip any any
```

An engineer must modify the access control list EGRESS to allow all IP traffic from subnet 10.1.10.0/24 to 10.1.2.0/24. The access control list is applied in the outbound direction on router interface GigabitEthernet 0/1. Which configuration commands can the engineer use to allow this traffic without disrupting existing traffic flows?

A)

```
config t
ip access-list extended EGRESS
permit ip 10.1.10.0 255.255.255.0 10.1.2.0 255.255.255.0
```

B)

```
config t
ip access-list extended EGRESS
5 permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
```

C)

```
config t
ip access-list extended EGRESS2
permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255
deny ip any any
!
interface g0/1
no ip access-group EGRESS out
ip access-group EGRESS2 out
```

D)

```
config t
ip access-list extended EGRESS
permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
```

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

Answer: B

NEW QUESTION 89

To increase total throughput and redundancy on the links between the wireless controller and switch, the customer enabled LAG on the wireless controller. Which EtherChannel mode must be configured on the switch to allow the WLC to connect?

- A. Auto
- B. Active
- C. On
- D. Passive

Answer: C

NEW QUESTION 91

What is the correct EBGp path attribute list, ordered from most preferred to the least preferred, that the BGP best-path algorithm uses?

- A. weigh
- B. AS path, local preferenc
- C. MED
- D. weight, local preference AS path, MED
- E. local preference weight AS path, MED
- F. local preference, weight MED, AS path

Answer: B

NEW QUESTION 96

Refer to the exhibit.

```
SwitchC#show vtp status
VTP Version                : 2
Configuration Revision      : 0
Maximum VLANs supported locally : 255
Number of existing VLANs    : 8
VTP Operating Mode          : Transparent
VTP Domain Name             : cisco.com
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled
MD5 digest                  : 0xE5 0x28 0x5D 0x3E 0x2F 0xE5 0xAD 0x2B
Configuration last modified by 0.0.0.0 at 1-10-19 09:01:38

SwitchC#show vlan brief

VLAN Name                Status        Ports
-----
1    default              active       Fa0/3, Fa0/4, Fa0/5, Fa0/6
                                           Fa0/7, Fa0/8, Fa0/9, Fa0/10
                                           Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                           Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                           Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                           Fa0/23, Fa0/24, Po1
110  Finance              active
210  HR                   active       Fa0/1
310  Sales                 active       Fa0/2
[...output omitted...]

SwitchC#show int trunk

Port      Mode      Encapsulation  Status        Native vlan
Gig1/1    on        802.1q         trunking      1
Gig1/2    on        802.1q         trunking      1

Port      Vlans allowed on trunk
Gig1/1    1-1005
Gig1/2    1-1005

Port      Vlans allowed and active in management domain
Gig1/1    1,110,210,310
Gig1/2    1,110,210,310

Port      Vlans in spanning tree forwarding state and not pruned
Gig1/1    1,110,210,310
Gig1/2    1,110,210,310

SwitchC#show run interface port-channel 1
interface Port-channel 1
 description Uplink_to_Core
 switchport mode trunk
```

SwitchC connects HR and Sales to the Core switch However, business needs require that no traffic from the Finance VLAN traverse this switch Which command meets this requirement?

A)

SwitchC(config)#vtp pruning

B)

SwitchC(config)#vtp pruning vlan 110

C)

SwitchC(config)#interface port-channel 1
SwitchC(config-if)#switchport trunk allowed vlan add 210,310

D)

SwitchC(config)#interface port-channel 1
SwitchC(config-if)#switchport trunk allowed vlan remove 110

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

Answer: D

NEW QUESTION 100

Which two descriptions of FlexConnect mode for Cisco APs are true? (Choose two.)

- A. APs that operate in FlexConnect mode cannot detect rogue Aps.
- B. FlexConnect mode is used when the APs are set up in a mesh environment and used to bridge between each other.
- C. FlexConnect mode is a feature that is designed to allow specified CAPWAP-enabled APs to exclude themselves from managing data traffic between clients and infrastructure.
- D. When connected to the controller, FlexConnect APs can tunnel traffic back to the controller.
- E. FlexConnect mode is a wireless solution for branch office and remote office deployments.

Answer: CD

NEW QUESTION 101

Which NGFW mode block flows crossing the firewall?

- A. Passive
- B. Tap
- C. Inline tap
- D. Inline

Answer: C

NEW QUESTION 103

Which statement about Cisco EAP-FAST is true?

- A. It does not require a RADIUS server certificate.
- B. It requires a client certificate.
- C. It is an IETF standard.
- D. It operates in transparent mode.

Answer: A

NEW QUESTION 108

What are two benefits of virtualizing the server with the use of VMs in data center environment? (Choose two.)

- A. Increased security
- B. reduced rack space, power, and cooling requirements
- C. reduced IP and MAC address requirements
- D. speedy deployment
- E. smaller Layer 2 domain

Answer: BD

NEW QUESTION 113

Which LISP device is responsible for publishing EID-to-RLOC mappings for a site?

- A. ETR
- B. MS
- C. ITR
- D. MR

Answer: A

NEW QUESTION 118

Refer to the exhibit.

```
R1#show ip bgp
BGP table version is 32, local router ID is 192.168.101.5
Status codes: S suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

   Network        Next Hop        Metric LocPrf Weight Path
*    192.168.102.0  192.168.101.18      80           0 64517 i
*    192.168.101.14  192.168.101.14      80           0 64516 i
*    192.168.101.10  192.168.101.10      80           0 64515 64515 i
*>   192.168.101.2   192.168.101.2      32768        64513 i
*    192.168.101.6   192.168.101.6      80           0 64514 64514 i
```

Which IP address becomes the active next hop for 192.168.102 0/24 when 192.168.101.2 fails?

- A. A.-192.168.101.18
- B. 192.168.101.6
- C. 192.168.101.10
- D. 192.168.101.14

Answer: A

NEW QUESTION 120

Which feature does Cisco TrustSec use to provide scalable, secure communication throughout a network?

- A. security group tag ACL assigned to each port on a switch
- B. security group tag number assigned to each port on a network
- C. security group tag number assigned to each user on a switch

D. security group tag ACL assigned to each router on a network

Answer: B

NEW QUESTION 121

What does this EEM applet event accomplish?

"event snmp oid 1.3.6.1.3.7.1.5.1.2.4.2.9 get-type next entry-op g entry-val 75 poll-interval 5"

- A. It issues email when the value is greater than 75% for five polling cycles.
- B. It reads an SNMP variable, and when the value exceeds 75% for live polling cycles.
- C. It presents a SNMP variable that can be interrogated.
- D. Upon the value reaching 75%, a SNMP event is generated and sent to the trap server.

Answer: B

NEW QUESTION 126

A client with IP address 209 16b 201 2b must access a web server on port 80 at 209 16b.200.22b. To allow this traffic. an engineer must add a statement to an access control list that is applied in the inbound direction on the port connecting to the web server Which statement allows this traffic?

- A. permit tcp host 209 165 200 225 eq 80 host 209.165.201.25
- B. permit tcp host 209 165.201 25 host 209.165.200.225 eq 80
- C. permit tcp host 209.165.200 225 lt 80 host 209.165.201.25
- D. permit tcp host 209.165.200.225 host 209.165.201.25 eq 80

Answer: B

NEW QUESTION 130

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