

**Exam** : **350-401**

**Title** : Implementing and Operating  
Cisco Enterprise Network Core  
Technologies

**Vendor** : Cisco

**Version** : V14.35

**NO.1** Which two mechanisms are available to secure NTP? (Choose two.)

- A. IP prefix list-based
- B. IPsec
- C. TACACS-based authentication
- D. IP access list-based
- E. Encrypted authentication

**Answer:** D E

**NO.2** 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

**NO.3** Which method creates an EEM applet policy that is registered with EEM and runs on demand or manually?

- A. event manager applet ondemand  
event register  
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- B. event manager applet ondemand  
event manual  
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- C. event manager applet ondemand  
event none  
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- D. event manager applet ondemand  
action 1.0 syslog priority critical msg 'This is a message from ondemand'

**Answer:** C

**NO.4** Which method of account authentication does OAuth 2.0 within REST APIs?

- A. username/role combination
- B. access tokens
- C. cookie authentication
- D. basic signature workflow

**Answer:** B

**NO.5** Which First Hop Redundancy Protocol should be used to meet a design requirements for more efficient default bandwidth usage across multiple devices?

- A. GLBP
- B. LCAP
- C. HSRP
- D. VRRP

**Answer:** A

**NO.6** Which action is the vSmart controller responsible for in an SD-WAN deployment?

- A. onboard vEdge nodes into the SD-WAN fabric
- B. distribute security information for tunnel establishment between vEdge routers
- C. manage, maintain, and gather configuration and status for nodes within the SD-WAN fabric
- D. gather telemetry data from vEdge routers

**Answer:** B

**NO.7** In OSPF, which LSA type is responsible for pointing to the ASBR router?

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

**Answer:** D

**NO.8** A network administrator is implementing a routing configuration change and enables routing debugs to track routing behavior during the change. The logging output on the terminal is interrupting the command typing process. Which two actions can the network administrator take to minimize the possibility of typing commands incorrectly? (Choose two.)

- A. Configure the logging synchronous global configuration command
- B. Configure the logging delimiter feature
- C. Configure the logging synchronous command under the vty
- D. Press the TAB key to reprint the command in a new line
- E. increase the number of lines on the screen using the terminal length command

**Answer:** C D

**NO.9** When reason could cause an OSPF neighborship to be in the EXSTART/EXCHANGE state?

- A. Mismatched OSPF network type
- B. Mismatched areas
- C. Mismatched MTU size
- D. Mismatched OSPF link costs

**Answer:** C

**NO.10** A client device fails to see the enterprise SSID, but other devices are connected to it. What is the cause of this issue?

- A. The hidden SSID was not manually configured on the client.
- B. The broadcast SSID was not manually configured on the client.
- C. The client has incorrect credentials stored for the configured hidden SSID.
- D. The client has incorrect credentials stored for the configured broadcast SSID.

**Answer:** A

**NO.11** When a wireless client roams between two different wireless controllers, a network

connectivity outage is experienced for a period of time. Which configuration issue would cause this problem?

- A. Not all of the controllers in the mobility group are using the same mobility group name.
- B. Not all of the controllers within the mobility group are using the same virtual interface IP address.
- C. All of the controllers within the mobility group are using the same virtual interface IP address.
- D. All of the controllers in the mobility group are using the same mobility group name.

**Answer:** A

**NO.12** At which Layer does Cisco DNA Center support REST controls?

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

**Answer:** D

**NO.13** Which DHCP option helps lightweight APs find the IP address of a wireless LAN controller?

- A. Option 43
- B. Option 60
- C. Option 67
- D. Option 150

**Answer:** A

**NO.14** A customer has several small branches and wants to deploy a WI-FI solution with local management using CAPWAP. Which deployment model meets this requirement?

- A. Autonomous
- B. Mobility Express
- C. SD-Access wireless
- D. Local mode

**Answer:** B

**NO.15** What is the difference between a RIB and a FIB?

- A. The RIB is used to make IP source prefix-based switching decisions
- B. The FIB is where all IP routing information is stored
- C. The RIB maintains a mirror image of the FIB
- D. The FIB is populated based on RIB content

**Answer:** D

**NO.16** What are two common sources of interference for WI-FI networks? (Choose two.)

- A. radar
- B. LED lights
- C. rogue AP
- D. conventional oven
- E. fire alarm

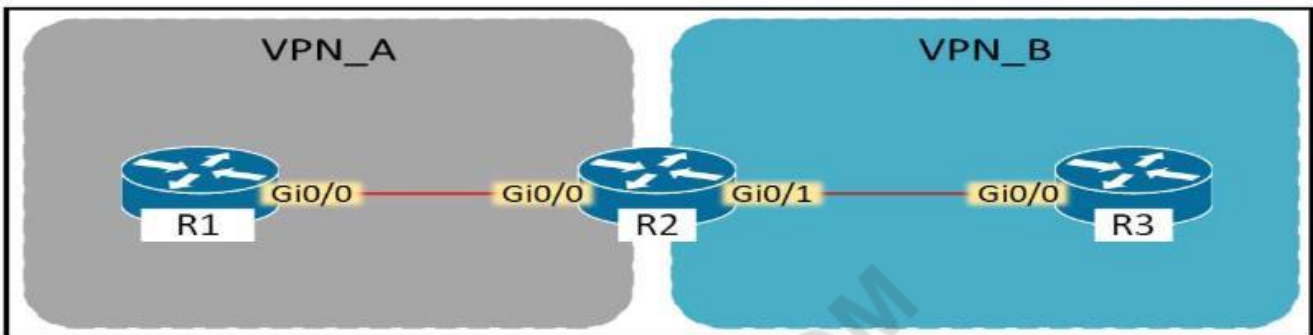
**Answer:** A C

**NO.17** In which part of the HTTP message is the content type specified?

- A. HTTP method
- B. URI
- C. header
- D. body

**Answer:** D

**NO.18** 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

**NO.19** Refer to the exhibit.

```

vlan 222
  remote-span
!
vlan 223
  remote-span
!
monitor session 1 source interface FastEthernet0/1 tx
monitor session 1 source interface FastEthernet0/2 rx
monitor session 1 source interface port-channel 5
monitor session 1 destination remote vlan 222
!

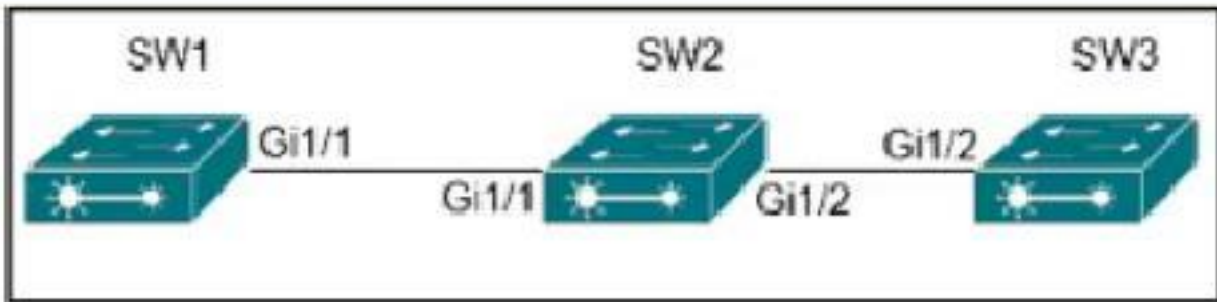
```

What is the result when a technician adds the monitor session 1 destination remote vlan 233 command?

- A. The RSPAN VLAN is replaced by VLAN 223.
- B. RSPAN traffic is sent to VLANs 222 and 223.
- C. An error is flagged for configuring two destinations.
- D. RSPAN traffic is split between VLANs 222 and 223.

**Answer:** B

**NO.20**



Company policy restricts VLAN 10 to be allowed only on SW1 and SW2. All other VLANs can be on all three switches. An administrator has noticed that VLAN 10 has propagated to SW3. Which configuration corrects the issue?

A)

```
SW1(config)#int gi1/1
SW1(config)#switchport trunk allowed vlan 1-9,11-4094
```

B)

```
SW2(config)#int gi1/2
SW2(config)#switchport trunk allowed vlan 10
```

C)

```
SW2(config)#int gi1/2
SW2(config)#switchport trunk allowed vlan 1-9,11-4094
```

D)

```
SW1(config)#int gi1/1
SW1(config)#switchport trunk allowed vlan 10
```

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A

**NO.21** What are two reasons why broadcast radiation is caused in the virtual machine environment? (Choose two.)

A. vSwitch must interrupt the server CPU to process the broadcast packet.

B. The Layer 2 domain can be large in virtual machine environments.

C. Virtual machines communicate primarily through broadcast mode.

- D. Communication between vSwitch and network switch is broadcast based.
- E. Communication between vSwitch and network switch is multicast based.

**Answer:** A D

**NO.22** Which OSPF networks types are compatible and allow communication through the two peering devices?

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

**Answer:** B

**NO.23** Which two entities are Type 1 hypervisors? (Choose two.)

- A. Oracle VM VirtualBox
- B. Microsoft Hyper-V
- C. VMware server
- D. VMware ESX
- E. Microsoft Virtual PC

**Answer:** B D

**NO.24** 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:** B

**NO.25** Which action is a function of VTEP in VXLAN?

- A. tunneling traffic from IPv6 to IPv4 VXLANs
- B. allowing encrypted communication on the local VXLAN Ethernet segment
- C. encapsulating and de-encapsulating VXLAN Ethernet frames
- D. tunneling traffic from IPv4 to IPv6 VXLANs

**Answer:** C

**NO.26** 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 on the contextual identity of the endpoint rather than its IP address
- D. classifies traffic based on advanced application recognition

**Answer:** C

**NO.27** Which component handles the orchestration plane of the Cisco SD-WAN?

- A. vBond
- B. vSmart
- C. vManage
- D. vEdge

**Answer:** A

**NO.28** Which PAgP mode combination prevents an Etherchannel from forming?

- A. auto/auto
- B. desirable/desirable
- C. auto/desirable
- D. desirable

**Answer:** A

**NO.29** What does the LAP send when multiple WLCs respond to the CISCO\_CAPWAP-CONTROLLER.localdomain hostname during the CAPWAP discovery and join process?

- A. broadcast discover request
- B. join request to all the WLCs
- C. unicast discovery request to each WLC
- D. Unicast discovery request to the first WLS that resolves the domain name

**Answer:** D

**NO.30** 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

**NO.31** Which behavior can be expected when the HSRP versions is changed from 1 to 2?

- A. Each HSRP group reinitializes because the virtual MAC address has changed.
- B. No changes occur because version 1 and 2 use the same virtual MAC OUI.
- C. Each HSRP group reinitializes because the multicast address has changed.
- D. No changes occur because the standby router is upgraded before the active router.

**Answer:** C

**NO.32** 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
|

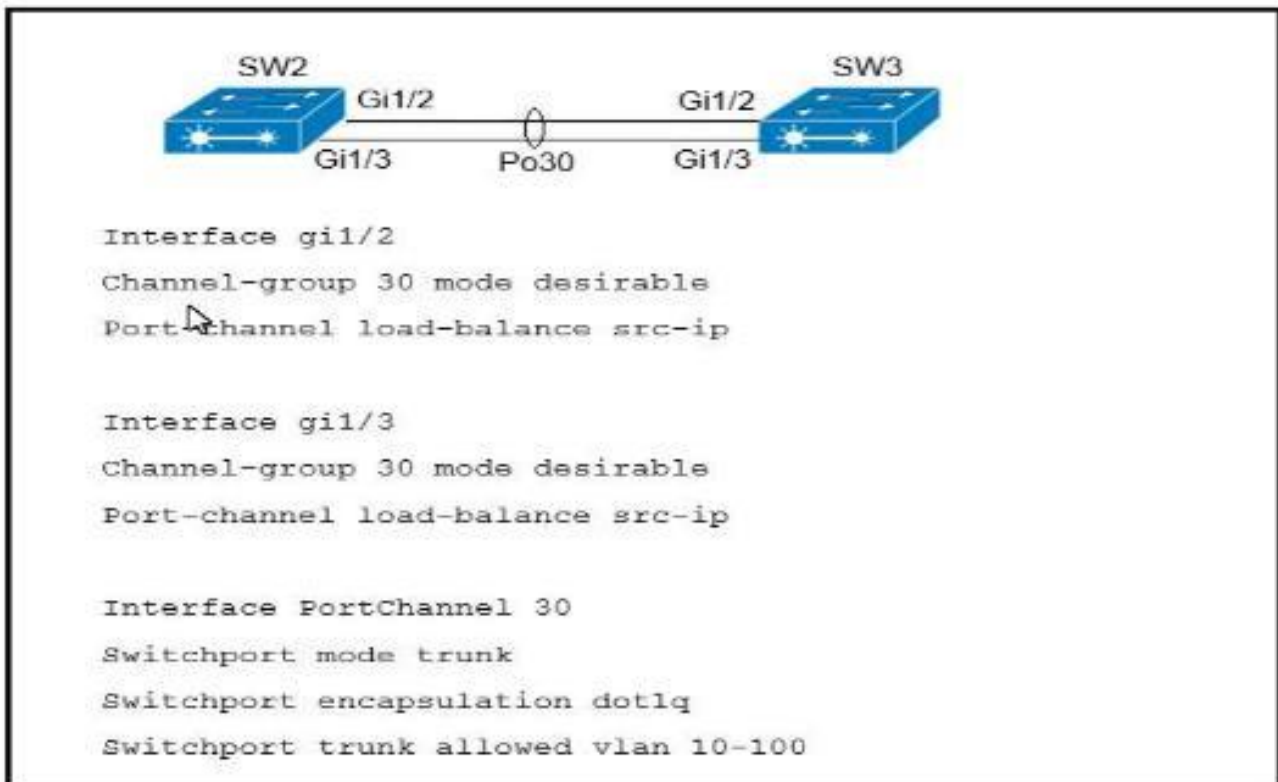
```

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 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

**NO.33** 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

**NO.34** Which requirement for an Ansible-managed node is true?

- A. It must be a Linux server or a Cisco device.
- B. It must have an SSH server running.
- C. It must support ad hoc commands.
- D. It must have an Ansible Tower installed.

**Answer:** A

**NO.35** On which protocol or technology is the fabric data plane based in Cisco SD-Access fabric?

- A. LISP
- B. IS-IS
- C. Cisco TrustSec
- D. VXLAN

**Answer:** D

**NO.36** Refer to the exhibit.

The screenshot shows the configuration page for a WLAN named 'Guest\_Wireless'. The page is divided into several tabs: General, Security, QoS, Policy-Mapping, and Advanced. Under the Advanced tab, there are sub-tabs for Layer 2, Layer 3, and AAA Servers. The AAA Servers section is active and contains the following configuration:

Select AAA servers below to override use of default servers on this WLAN

**Radius Servers**

Radius Server Overwrite interface  Enabled  
Interface Priority WLAN

|          | Authentication Servers                      | Accounting Servers                          |
|----------|---|---|
|          | <input checked="" type="checkbox"/> Enabled | <input checked="" type="checkbox"/> Enabled |
| Server 1 | <span>None</span>                           | <span>None</span>                           |
| Server 2 | <span>None</span>                           | <span>None</span>                           |
| Server 3 | <span>None</span>                           | <span>None</span>                           |
| Server 4 | <span>None</span>                           | <span>None</span>                           |
| Server 5 | <span>None</span>                           | <span>None</span>                           |
| Server 6 | <span>None</span>                           | <span>None</span>                           |

Assuming the WLC's interfaces are not in the same subnet as the RADIUS server, which interface would the WLC use as the source for all RADIUS-related traffic?

- A. the interface specified on the WLAN configuration
- B. any interface configured on the WLC
- C. the controller management interface
- D. the controller virtual interface

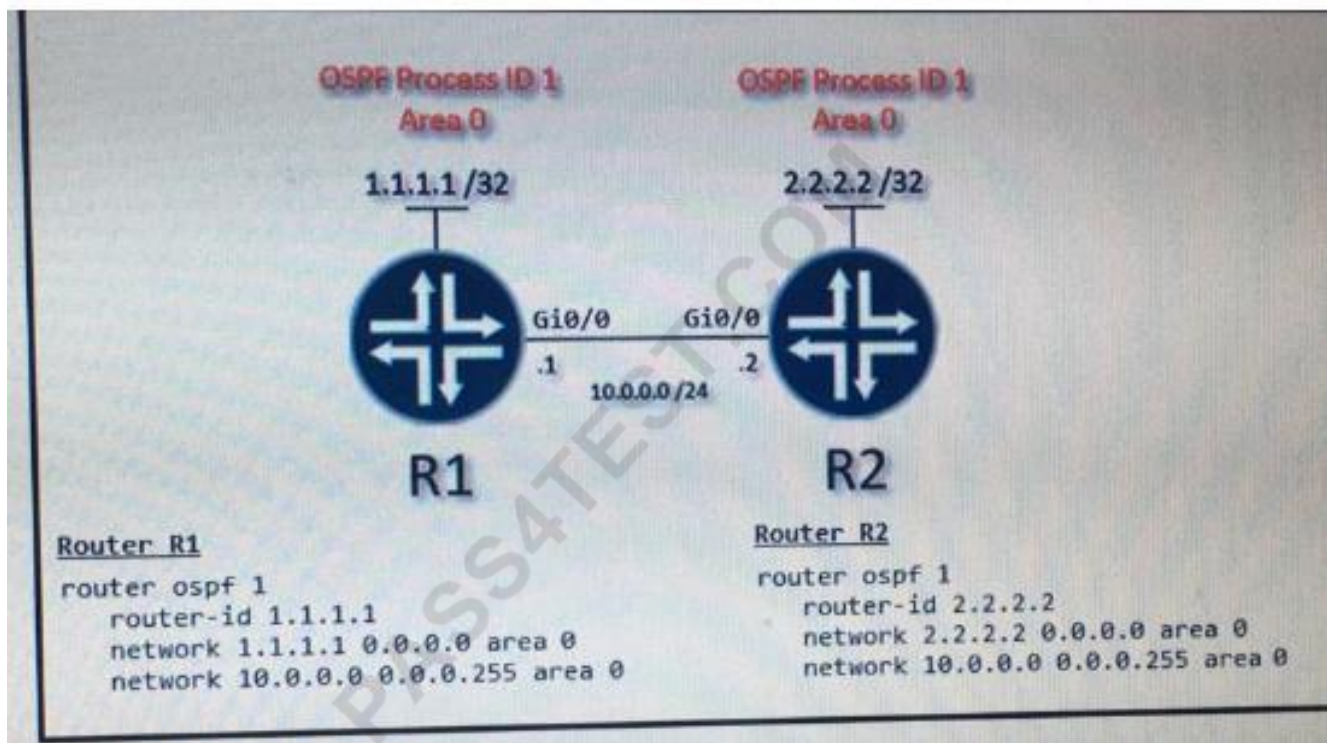
**Answer:** A

**NO.37** 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

**NO.38** Refer to the exhibit.



A network engineer is configuring OSPF between router R1 and router R2. The engineer must ensure that a DR/BDR election does not occur on the Gigabit Ethernet interfaces in area 0. Which configuration set accomplishes this goal?

A)

● R1(config-if)interface Gi0/0  
R1(config-if)ip ospf network point-to-point

R2(config-if)interface Gi0/0  
R2(config-if)ip ospf network point-to-point

B)

● R1(config-if)interface Gi0/0  
R1(config-if)ip ospf network broadcast

R2(config-if)interface Gi0/0  
R2(config-if)ip ospf network broadcast

C)

● R1(config-if)interface Gi0/0  
R1(config-if)ip ospf database-filter all out

R2(config-if)interface Gi0/0  
R2(config-if)ip ospf database-filter all out

D)

● R1(config-if)interface Gi0/0  
R1(config-if)ip ospf priority 1

R2(config-if)interface Gi0/0  
R2(config-if)ip ospf priority 1

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

**Answer:** A

**NO.39** Which statement about route targets is true when using VRF-Lite?

- A. When BGP is configured, route targets are transmitted as BGP standard communities.
- B. Route targets control the import and export of routes into a customer routing table.
- C. Route targets allow customers to be assigned overlapping addresses.
- D. Route targets uniquely identify the customer routing table.

**Answer:** B

**NO.40** A response code of 404 is received while using the REST API on Cisco UNA Center to POST to this URI.

/dna/intent/api/v1 /template-programmer/project

What does the code mean?

- A. The client made a request a resource that does not exist.
- B. The server has not implemented the functionality that is needed to fulfill the request.
- C. The request accepted for processing, but the processing was not completed.
- D. The POST/PUT request was fulfilled and a new resource was created, Information about the resource is in the response body.

**Answer:** A

**NO.41** 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

**NO.42** Which statements are used for error handling in Python?

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

**Answer:** B

**NO.43** 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

**NO.44** Which controller is the single plane of management for Cisco SD-WAN?

- A. vBond
- B. vEdge
- C. vSmart
- D. vManage

**Answer:** D

**NO.45** Wireless users report frequent disconnections from the wireless network. While

troubleshooting a network engineer finds that after the user a disconnect, the connection re-establishes automatically without any input required. The engineer also notices these message logs .

```
AP 'AP2' is down. Reason: Radio channel set. 6:54:04 PM
AP 'AP4' is down. Reason: Radio channel set. 6:44:49 PM
AP 'AP7' is down. Reason: Radio channel set. 6:34:32 PM
```

Which action reduces the user impact?

- A. increase the AP heartbeat timeout
- B. increase BandSelect
- C. enable coverage hole detection
- D. increase the dynamic channel assignment interval

**Answer:** D

**NO.46** What do Cisco DNA southbound APIs provide?

- A. Interface between the controller and the network devices
- B. NETCONF API interface for orchestration communication
- C. RESful API interface for orchestrator communication
- D. Interface between the controller and the consumer

**Answer:** A

**NO.47** Which standard access control entry permits from odd-numbered hosts in the 10.0.0.0/24 subnet?

- A. Permit 10.0.0.0.0.0.0.1
- 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

**NO.48** Which statement about VXLAN is true?

- A. VXLAN uses TCP 35 the transport protocol over the physical data centro network
- B. VXLAN extends the Layer 2 Segment ID field to 24-bits. which allows up to 4094 unique Layer 2 segments over the same network.
- C. VXLAN encapsulates a Layer 2 frame in an IP-UDP header, which allows Layer 2 adjacency across router boundaries.
- D. VXLAN uses the Spanning Tree Protocol for loop prevention.

**Answer:** C

**NO.49** Refer to the exhibit.

| Client Properties        |  | AP Properties         |                 |
|--------------------------|--|-----------------------|-----------------|
| MAC Address              | 80:09:ef:06:07:bd                              | AP Address            | 172.22.253.28   |
| IP Address               | 192.168.100.199                                | AP Name               | 172.22.253.28   |
| Client Type              | Regular  | AP Type               | Mobile          |
| User Name                |  | WPA Profile           | Auto            |
| Port Number              | 29   | Status                | Associated      |
| Interface                | Staff  | Association ID        | 0               |
| VLAN ID                  | 3602   | 802.11 Authentication | Open System     |
| LLX Version              | Not Supported                                  | Reason Code           | 1               |
| EAP Version              | Not Supported                                  | Status Code           | 0               |
| Mobility Role            | Anchor   | CF Pollable           | Not Implemented |
| Mobility Peer IP Address | 172.22.253.28                                  | CF Poll Request       | Not Implemented |
| Policy                   |  | Short Preamble        | Implemented     |
| Manager                  | ISUN   | PBCC                  | Not Implemented |
| State Management         |  | Channel Agility       | Not Implemented |
| Frame Protection         | No   | Timeout               | 0               |
| Uptime (Sec)             | 3719   | WPA State             | WPA Enable      |
| Power Save Mode          | OFF  |                       |                 |
| Current TxRateSet        |  |                       |                 |
| Data RateSet             | 5.5,11.0,6.0,9.0,12.0,18.0,24.0,36.0,48.0,54.0 |                       |                 |

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

**NO.50** Which two namespaces does the LISP network architecture and protocol use? (Choose two.)

- A. TLOC
- B. RLOC
- C. DNS
- D. VTEP
- E. EID

**Answer:** B E

**NO.51** Refer to the exhibit.

```
access-list 1 permit 172.16.1.0 0.0.0.255
ip nat inside source list 1 interface gigabitethernet0/0 overload
```

The inside and outside interfaces in the NAT configuration of this device have been correctly identified. What is the effect of this configuration?

- A. dynamic NAT
- B. NAT64
- C. PAT

D. static NAT

**Answer:** C

**NO.52** An engineer is describing QoS to a client. Which two facts apply to traffic policing? (Choose two.)

- A. Policing adapts to network congestion by queuing excess traffic.
- B. Policing should be performed as close to the destination as possible.
- C. Policing drops traffic that exceeds the defined rate.
- D. Policing typically delays the traffic, rather than drops it.
- E. Policing should be performed as close to the source as possible.

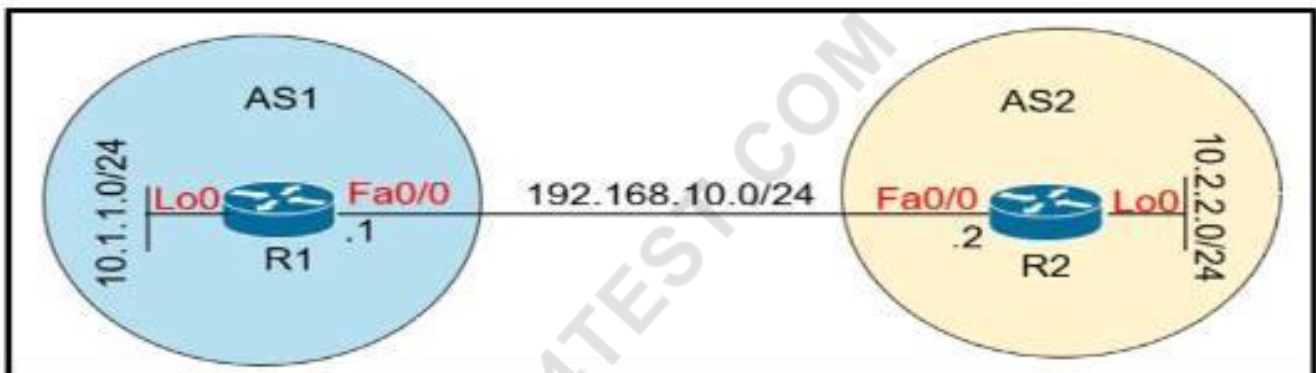
**Answer:** B C

**NO.53** Which feature must be configured to allow packet capture over Layer 3 infrastructure'?

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

**Answer:** D

**NO.54** Refer to the exhibit.



Which configuration establishes EBGP neighborship 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

**NO.55** Which two pieces of information are necessary to compute SNR? (Choose two.)

- A. RSSI
- B. transmit power
- C. antenna gain
- D. noise floor
- E. EIRP

**Answer:** A,D

**NO.56** 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

**NO.57** Refer to the exhibit.

```
R1# sh run | begin line con
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
  stopbits 1
line aux 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
  stopbits 1
line vty 0 4
  password 7 045802150C2E
  login
line vty 5 15
  password 7 045802150C2E
  login
!
end

R1# sh run | include aaa | enable
no aaa new-model
R1#
```

Which privilege level is assigned to VTY users?

- A. 1
- B. 7
- C. 13
- D. 15

**Answer:** D

**NO.58** Which feature of EIGRP is not supported in OSPF?

- A. load balancing of unequal-cost paths
- B. load balance over four equal-costs paths
- C. uses interface bandwidth to determine best path
- D. per-packet load balancing over multiple paths

**Answer:** A

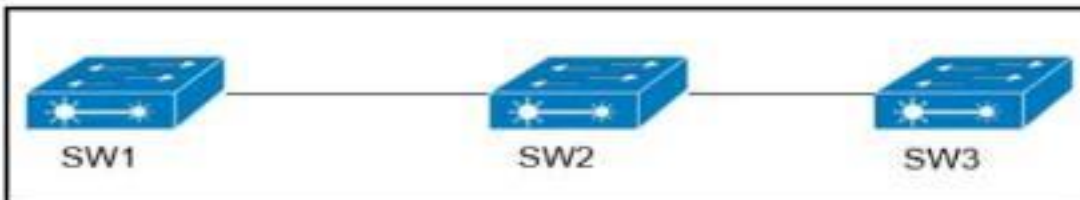
**NO.59** What is the difference between the enable password and the enable secret password when

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

**NO.60** 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

**NO.61** What the role of a fusion in an SD-Access solution?

- A. provides connectivity to external networks
- B. acts as a DNS server
- C. performs route leaking between user-defined virtual networks and shared services
- D. provides additional forwarding capacity to the fabric

**Answer:** C

**NO.62** Refer to the exhibit.

```
access-list 1 permit 10.1.1.0 0.0.0.31
ip nat pool CISCO 209.165.201.1 209.165.201.30 netmask 255.255.255.224
ip nat inside source list 1 pool CISCO
```

What are two effect of this configuration? (Choose two.)

- A. Inside source addresses are translated to the 209.165.201.0/27 subnet.
- B. It establishes a one-to-one NAT translation.
- C. The 10.1.1.0/27 subnet is assigned as the inside global address range.
- D. The 209.165.201.0/27 subnet is assigned as the outside local address range.
- E. The 10.1.1.0/27 subnet is assigned as the inside local addresses.

**Answer:** A E

**NO.63** What NTP Stratum level is a server that is connected directly to an authoritative time source?

- A. Stratum 0
- B. Stratum 1
- C. Stratum 14
- D. Stratum 15

**Answer:** B

**NO.64** A network administrator applies the following configuration to an IOS device.

```
aaa new-model
aaa authentication login default local group tacacs+
```

What is the process of password checks when a login attempt is made to the device?

- A. A TACACS+server is checked first. If that check fail, a database is checked?
- B. A TACACS+server is checked first. If that check fail, a RADIUS server is checked. If that check fail. a local database is checked.
- C. A local database is checked first. If that fails, a TACACS+server is checked, if that check fails, a RADUIS server is checked.
- D. A local database is checked first. If that check fails, a TACACS+server is checked.

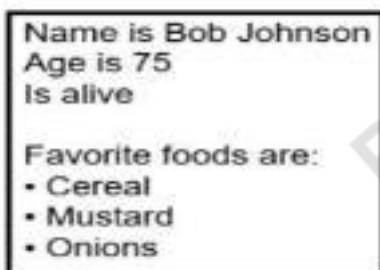
**Answer:** A

**NO.65** Which HHTP 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

**NO.66** Refer to the exhibit.



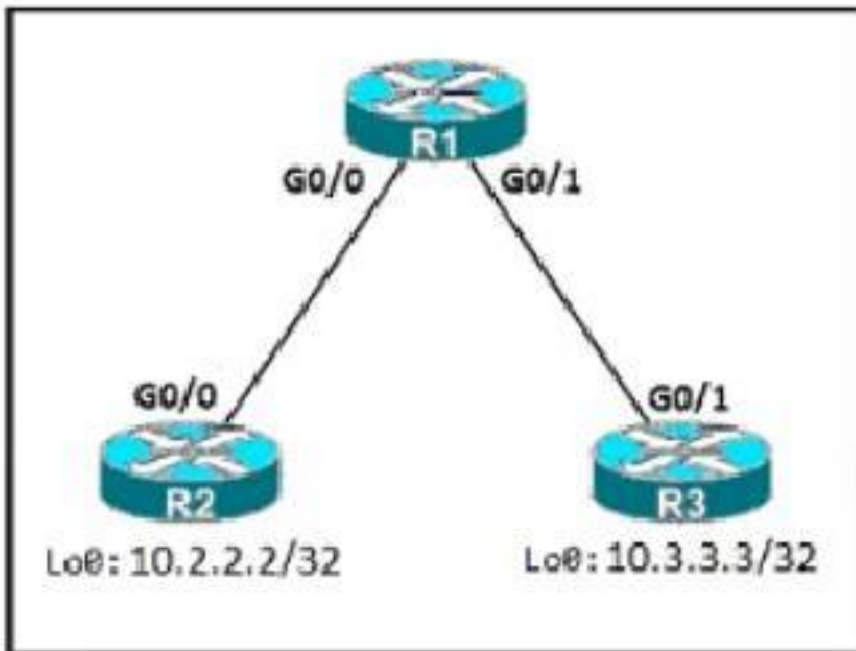
```
{
  "Name": "Bob Johnson",
  "Age": 75,
  "Alive": true,
  "Favorite Foods": [
    "Cereal",
    "Mustard",
    "Onions"
  ]
}
```

What is the JSON syntax that is formed the data?

- A. Name: Bob, Johson, Age: 75, Alive: true, Favourite Foods. [Cereal, "Mustard", "Onions]}
- B. Name", "Bob" Johson", "Age", 75, "Alive", true, "favourite Foods", ["Cereal, "Mustard", Onions"]}]
- C. Name', 'Bob Johson,' 'Age', 75, 'Alive', true, 'favourite Foods' 'Cereal', 'Mustard', 'Onions'}
- D. Name". "Bob Johson", "Age": Seventyfive, "Alive" true, "favourite Foods" ,[Cereal" "Mustard" "Onions"]}]

**Answer:** C

**NO.67** Refer to the exhibit.



An engineer must deny Telnet traffic from the loopback interface of router R3 to the loopback interface of router R2 during the weekend hours. All other traffic between the loopback interfaces of routers R3 and R2 must be allowed at all times. Which command accomplish this task?

A)

```
R3(config)#time-range WEEKEND
R3(config-time-range)#periodic Saturday Sunday 00:00 to 23:59

R3(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R3(config)#access-list 150 permit ip any any time-range WEEKEND
```

```
R3(config)#interface G0/1
R3(config-if)#ip access-group 150 out
```

B)

```
R1(config)#time-range WEEKEND
R1(config-time-range)#periodic Friday Sunday 00:00 to 00:00

R1(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R1(config)#access-list 150 permit ip any any
```

```
R1(config)#interface G0/1
R1(config-if)#ip access-group 150 in
```

C)

```
R1(config)#time-range WEEKEND
R1(config-time-range)#periodic weekend 00:00 to 23:59

R1(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R1(config)#access-list 150 permit ip any any
```

```
R1(config)#interface G0/1
R1(config-if)#ip access-group 150 in
```

D)

```
R3(config)#time-range WEEKEND
R3(config-time-range)#periodic weekend 00:00 to 23:59
```

```
R3(config)#access-list 150 permit tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R3(config)#access-list 150 permit ip any any time-range WEEKEND
```

```
R3(config)#interface G0/1
R3(config-if)#ip access-group 150 out
```

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

**Answer:** C

**NO.68** Which method displays text directly into the active console with a synchronous EEM applet policy?

- A. event manager applet boom  
event syslog pattern 'UP'  
action 1.0 gets 'logging directly to console'
- B. event manager applet boom  
event syslog pattern 'UP'  
action 1.0 syslog priority direct msg 'log directly to console'
- C. event manager applet boom  
event syslog pattern 'UP'  
action 1.0 puts 'logging directly to console'
- D. event manager applet boom  
event syslog pattern 'UP'  
action 1.0 string 'logging directly to console'

**Answer:** B

**NO.69** 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

**NO.70** Which technology provides a secure communication channel for all traffic at Layer 2 of the OSI model?

- A. MACsec
- B. IPsec

- C. SSL
- D. Cisco Trustsec

**Answer:** A

**NO.71** 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**

**Answer:**

- 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**

drops excessive traffic

causes TCP retransmissions when traffic is dropped

introduces no delay and jitter

**Traffic Shaping**

buffers excessive traffic

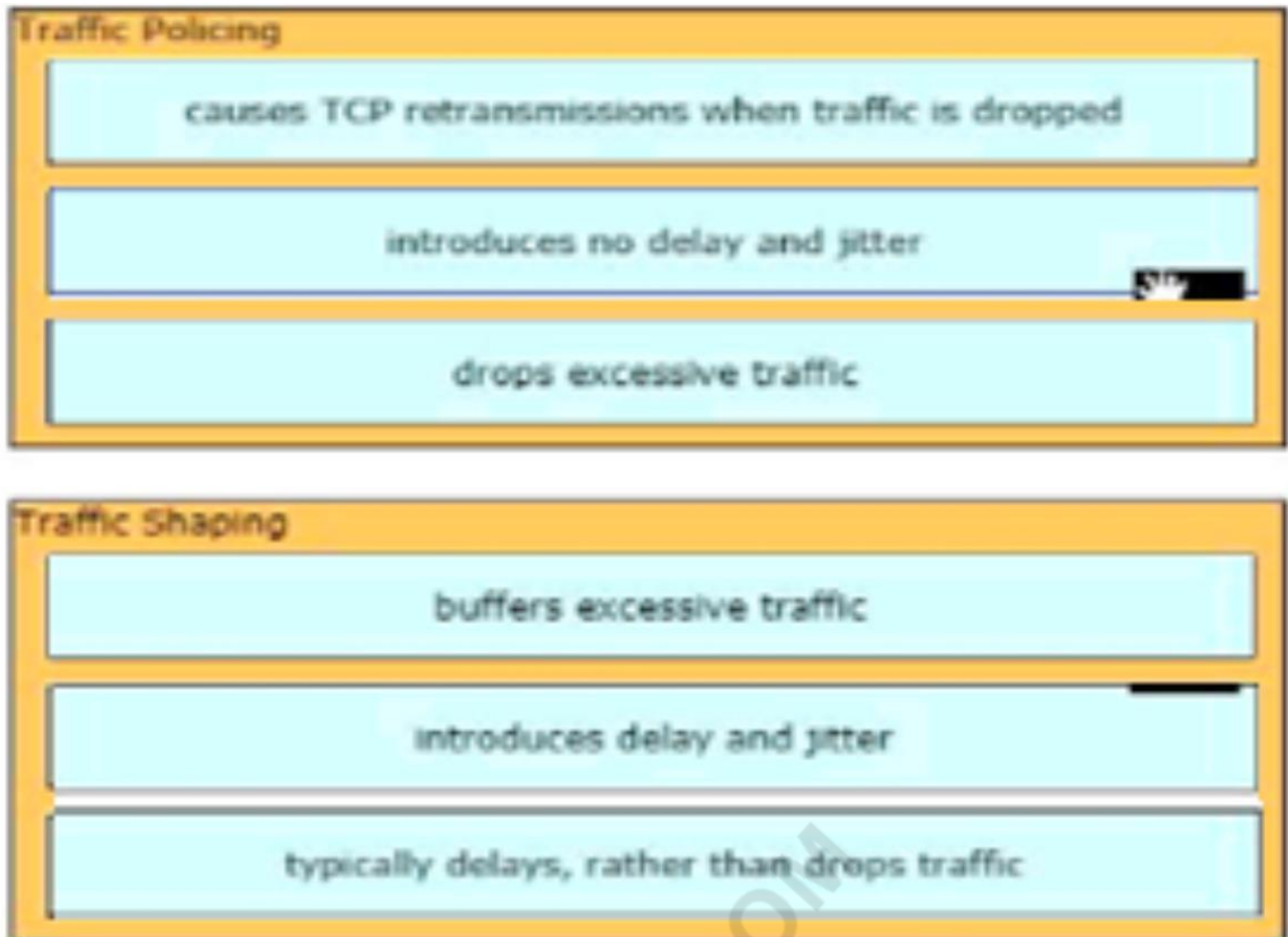
introduces delay and jitter

typically delays, rather than drops traffic

**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



**NO.72** Which two pieces of information are necessary to compute SNR? (Choose two.)

- A. EIRP
- B. noise floor
- C. antenna gain
- D. RSSI
- E. transmit power

**Answer:** B D

**NO.73** An engineer must protect their company against ransom ware attacks. Which solution allows the engineer to block the execution stage and prevent file encryption?

- A. Use Cisco Firepower and block traffic to TOR networks.
- B. Use Cisco AMP deployment with the Malicious Activity Protection engine enabled.
- C. Use Cisco AMP deployment with the Exploit Prevention engine enabled.
- D. Use Cisco Firepower with Intrusion Policy and snort rules blocking SMB exploitation.

**Answer:** B

**NO.74** Which LISP device is responsible for publishing EID-to-RLOC mappings for a site?

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

D. MR

**Answer:** A

**NO.75** 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

**NO.76** 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
MDS 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

**NO.77** The login method is configured on the VTY lines of a router with these parameters.

\* The first method for authentication is TACACS

\* If TACACS is unavailable, login is allowed without any provided credentials Which configuration accomplishes this task?

R1#sh run | include aaa  
aaa new-model  
aaa authentication login VTY group tacacs+ none  
aaa session-id common

R1#sh run | section vty  
line vty 0 4  
password 7 02050D480809

R1#sh run | include username  
R1#

R1#sh run | include aaa  
aaa new-model  
aaa authentication login default group tacacs+  
aaa session-id common

R1#sh run | section vty  
line vty 0 4  
transport input none  
R1#

R1#sh run | include aaa  
aaa new-model  
aaa authentication login default group tacacs+ none  
aaa session-id common

R1#sh run | section vty  
line vty 0 4  
password 7 02050D480809

```

R1#sh run | include aaa
aaa new-model
aaa authentication login telnet group tacacs+ none
aaa session-id common

R1#sh run | section vty
line vty 0 4

R1#sh run | include username
R1#

```

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

**Answer:** C

**NO.78** Why is an AP joining a different WLC than the one specified through option 43?

- A. The WLC is running a different software version.
- B. The API is joining a primed WLC
- C. The AP multicast traffic unable to reach the WLC through Layer 3.
- D. The APs broadcast traffic is unable to reach the WLC through Layer 2.

**Answer:** B

**NO.79** 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:** C D

**NO.80** 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

**NO.81** 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

**NO.82** 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 | 80     | 80     | 0      | 64516 i       |
| * |               | 192.168.101.10 |        |        | 0      | 64515 64515 i |
| > |               | 192.168.101.2  |        |        | 32768  | 64513 i       |
| * |               | 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. 192.168.101.18

B. 192.168.101.6

C. 192.168.101.10

D. 192.168.101.14

**Answer:** A

**NO.83** A client with IP address 209.165.201.25 must access a web server on port 80 at 209.165.200.225. 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

**NO.84** Which configuration restricts the amount of SSH that a router accepts to 100 kbps?

A)

```

class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
!
policy-map CoPP_SSH
  class CoPP_SSH
    police cir 10000
      exceed-action drop
    !
  !
!
interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group SSHS out
  duplex auto
  speed auto
  media-type rj45
  service-policy input CoPP_SSH
!
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
!

```

B)

```

class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
!
policy-map CoPP_SSH
  class CoPP_SSH
    police cir 10000
      exceed-action drop
    !
  !
!
interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group SSHS out
  duplex auto
  speed auto
  media-type rj4
  service-policy input CoPP_SSH
!
ip access-list extended CoPP_SSH
  deny tcp any any eq 22
!

```

C)

```

class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
!
policy-map CoPP_SSH
  class CoPP_SSH
    police cir 10000
      exceed-action drop
    !
  !
!
control-plane
  service-policy input CoPP_SSH
!
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
!

```

D)

```

class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
!
policy-map CoPP_SSH
  class CoPP_SSH
    police cir 100000
      exceed-action drop
  !
!
control-plane transit
  service-policy input CoPP_SSH
!
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
!

```

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

**Answer:** C

**NO.85** Which statement about an RSPAN session configuration is true?

- A. A filter must be configured for RSPAN Regions
- B. Only one session can be configured at a time
- C. A special VLAN type must be used as the RSPAN destination.
- D. Only incoming traffic can be monitored

**Answer:** C

**NO.86** Which two protocols are used with YANG data models? (Choose two.)

- A. HTTPS
- B. SSH
- C. RESTCONF
- D. TLS
- E. NETCONF

**Answer:** C E

**NO.87** 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

**NO.88** Which TCP setting is tuned to minimize the risk of fragmentation on a GRE/IP tunnel?

- A. MTU
- B. Window size

C. MRU

D. MSS

**Answer:** D

**NO.89** 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:** D E

**NO.90** Which component of the Cisco Cyber Threat Defense solution provides user and flow context analysis?

A. Cisco Firepower and FireSIGHT

B. Cisco Stealthwatch system

C. Advanced Malware Protection

D. Cisco Web Security Appliance

**Answer:** B

**NO.91** How does QoS traffic shaping alleviate network congestion?

A. It drops packets when traffic exceeds a certain bitrate.

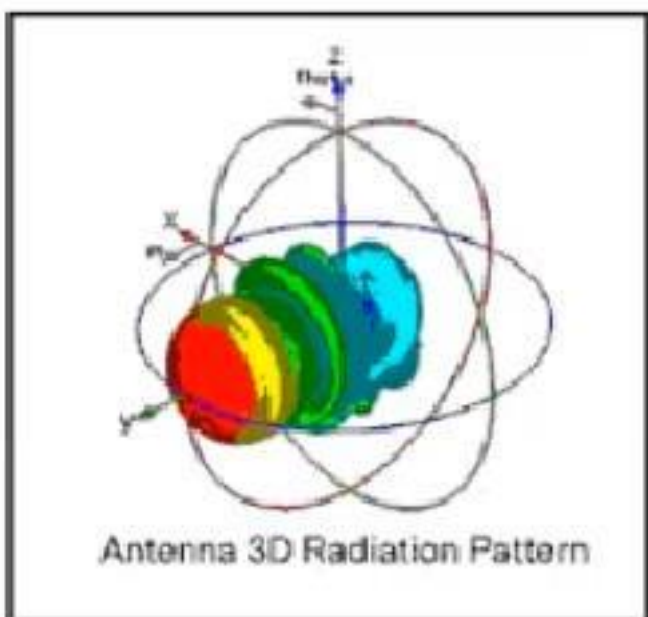
B. It buffers and queue packets above the committed rate.

C. It fragments large packets and queues them for delivery.

D. It drops packets randomly from lower priority queues.

**Answer:** B

**NO.92** Refer to the exhibit.



Which type of antenna does the radiation pattern represent?

- A. Yagi
- B. multidirectional
- C. directional patch
- D. omnidirectional

**Answer:** A

**NO.93** Which algorithms are used to secure REST API from brute attacks and minimize the impact?

- A. SHA-512 and SHA-384
- B. MD5 algorithm-128 and SHA-384
- C. SHA-1, SHA-256, and SHA-512
- D. PBKDF2, BCrypt, and SCrypt

**Answer:** D

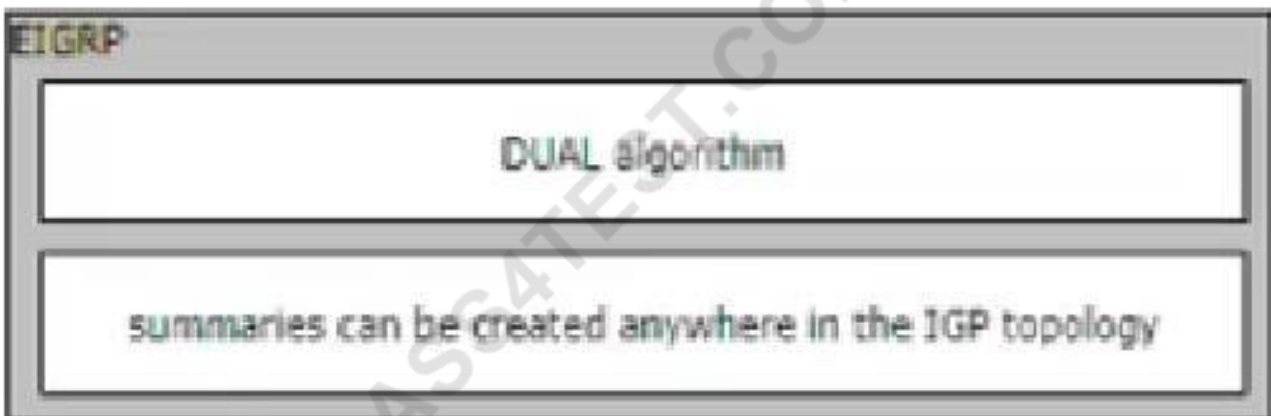
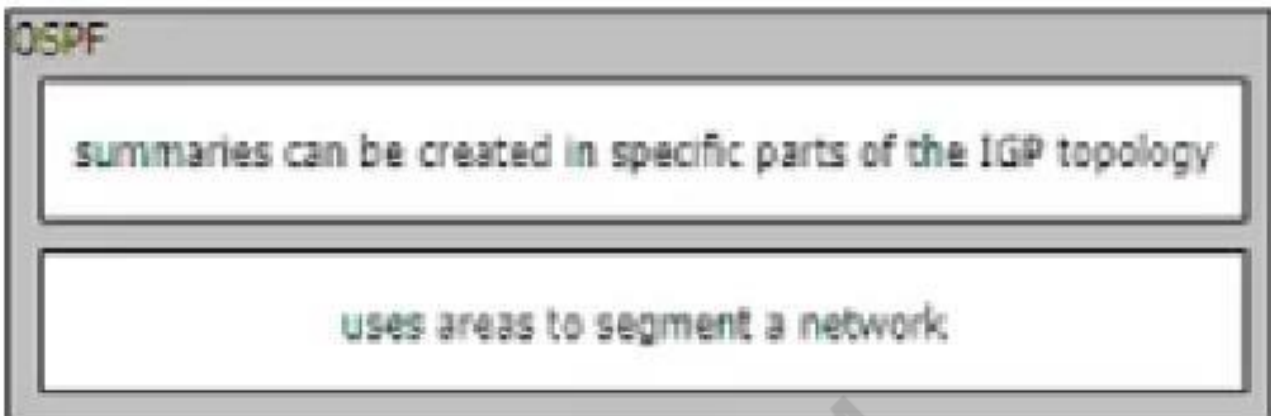
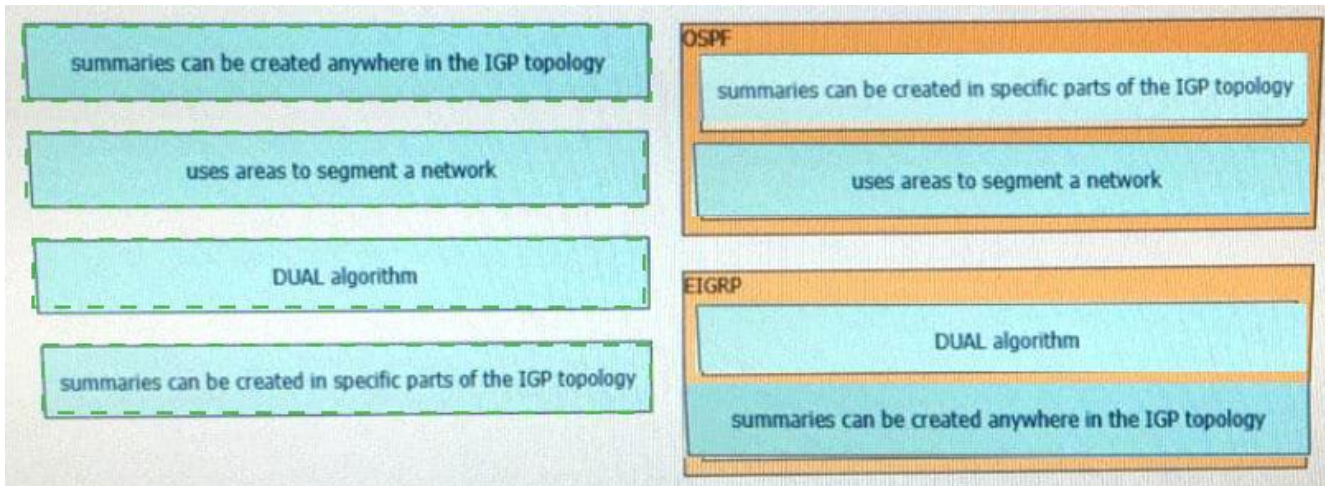
**NO.94** A network administrator is preparing a Python scrip to configure a Cisco IOS XE-based device on the network. The administrator is worried that colleagues will make changes to the device while the script is running. Which operation of he in client manager prevent colleague making changes to the device while the scrip is running?

- A. m.lock(config='running')
- B. m.lock(target='running')
- C. m.freeze(target='running')
- D. m.freeze(config='running')

**Answer:** A

**NO.95** Drag the drop the description from the left onto the routing protocol they describe on the right.

**Answer:**



**NO.96** Which protocol infers that a YANG data model is being used?

- A. SNMP
- B. NX-API
- C. REST
- D. RESTCONF

**Answer:** D

**NO.97** Refer to the exhibit.

```

PYTHON CODE:
import requests
import json

url='http://YOURIP/ins'
switchuser='USERID'
switchpassword='PASSWORD'

myheaders={'content-type':'application/json'}
payload={
  "ins_api": {
    "version": "1.0",
    "type": "cli_show",
    "chunk": "0",
    "sid": "1",
    "input": "show version",
    "output_format": "json"
  }
}
response = requests.post(url,data=json.dumps(payload), headers=myheaders,auth=(switchuser,switchpassword)) json()
print(response[ins_api][outputs][output][body][kickstart_ver_str])

```

```

HTTP JSON Response:
{
  "ins_api": {
    "type": "cli_show",
    "version": "1.0",
    "sid": "e0c",
    "outputs": {
      "output": {
        "input": "show version",
        "msg": "Success",
        "code": "200",
        "body": {
          "bios_ver_str": "07.61",
          "kickstart_ver_str": "7.0(3)I7(4)",
          "bios_cmpl_time": "04/06/2017",
          "kick_file_name": "bootflash://nxos.7.0.3.17.4.bin",
          "kick_cmpl_time": "0/14/1970 2:00:00",
          "kick_lmstmp": "06/14/1970 09:49:04",
          "chassis_id": "Nexus9000 93180YC-EX chassis",
          "cpu_name": "Intel(R) Xeon(R) CPU @ 1.80GHz",
          "memory": 24633488,
          "mem_type": "kB",
          "tr_uscs": 134703,
          "tr_cbrno": "Sun Mar 10 15:41:46 2019",
          "tr_reason": "Reset Requested by CLI command reload",
          "tr_sys_ver": "7.0(3)I7(4)",
          "tr_service": "",
          "manufacturer": "Cisco Systems, Inc.",
          "TABLE_package_list": {
            "ROW_package_list": [
              "package_id": 0
            ]
          }
        }
      }
    }
  }
}

```

Which HTTP JSON response does the python code output give?

- A. NameError: name 'json' is not defined
- B. KeyError 'kickstart\_ver\_str'
- C. 7.61
- D. 7.0(3)I7(4)

**Answer:** B

**NO.98** Refer to the exhibit.



Link1 is a copper connection and Link2 is a fiber connection. The fiber port must be the primary port for all forwarding. The output of the show spanning-tree command on SW2 shows that the fiber port is blocked by spanning tree. An engineer enters the spanning-tree port-priority 32 command on GO/1

on SW2, but the port remains blocked. Which command should be entered on the ports that are connected to Link2 to resolve the issue?

- A. Enter spanning-tree port-priority 32 on SW1.
- B. Enter spanning-tree port-priority 224 on SW1.
- C. Enter spanning-tree port-priority 4 on SW2.
- D. Enter spanning-tree port-priority 64 on SW2.

**Answer:** A

**NO.99** 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

**NO.100** What are two device roles in Cisco SD-Access fabric? (Choose two.)

- A. core switch
- B. vBond controller
- C. edge node
- D. access switch
- E. border node

**Answer:** C E

**NO.101** What does the Cisco DNA Center use to enable the delivery of applications through a network and to yield analytics for innovation?

- A. process adapters
- B. Command Runner
- C. intent-based APIs
- D. domain adapters

**Answer:** C

**NO.102** When using TLS for syslog, which configuration allows for secure and reliable transportation of messages to its default port?

- A. logging host 10.2.3.4 vrf mgmt transport tcp port 6514
- B. logging host 10.2.3.4 vrf mgmt transport udp port 6514
- C. logging host 10.2.3.4 vrf mgmt transport tcp port 514
- D. logging host 10.2.3.4 vrf mgmt transport udp port 514

**Answer:** A

**NO.103** Which access point mode allows a supported AP to function like a WLAN client would, associating and identifying client connectivity issues?

- A. client mode
- B. SE-connect mode

- C. sensor mode
- D. sniffer mode

**Answer:** D

**NO.104** Based on this interface configuration, what is the expected state of OSPF adjacency?

```

R1:
interface GigabitEthernet0/1
 ip address 192.0.2.1 255.255.255.252
 ip ospf 1 area 0
 ip ospf hello-interval 2
 ip ospf cost 1
end

R2:
interface GigabitEthernet0/1
 ip address 192.0.2.2 255.255.255.252
 ip ospf 1 area 0
 ip ospf cost 500
end

```

- A. Full on both routers
- B. not established
- C. 2WAY/DROTHER on both routers
- D. FULL/BDR on R1 and FULL/BDR on R2

**Answer:** B

**NO.105** 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 underlay.
- C. The access point is part the fabric overlay.
- D. The wireless client is part of the fabric overlay.

**Answer:** C

**NO.106** What is the role of the RP in PIM sparse mode?

- A. The RP responds to the PIM join messages with the source of requested multicast group
- B. The RP maintains default aging timeouts for all multicast streams requested by the receivers.
- C. The RP acts as a control-plane node and does not receive or forward multicast packets.
- D. The RP is the multicast that is the root of the PIM-SM shared multicast distribution tree.

**Answer:** A

**NO.107** Which benefit is offered by a cloud infrastructure deployment but is lacking in an on-premises deployment?

- A. efficient scalability
- B. virtualization

- C. storage capacity
- D. supported systems

**Answer:** A

**NO.108** Which First Hop Redundancy Protocol maximizes uplink utilization and minimizes the amount of configuration that is necessary?

- A. GLBP
- B. HSRP v2
- C. VRRP
- D. HSRP v1

**Answer:** A

**NO.109** 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

**NO.110** When a wired client connects to an edge switch in an SDA fabric, which component decides whether the client has access to the network?

- A. control-plane node
- B. Identity Service Engine
- C. RADIUS server
- D. edge node

**Answer:** C

**NO.111** A company plans to implement intent-based networking in its campus infrastructure. Which design facilitates a migrate from a traditional campus design to a programmer fabric designer?

- A. Layer 2 access
- B. three-tier
- C. two-tier
- D. routed access

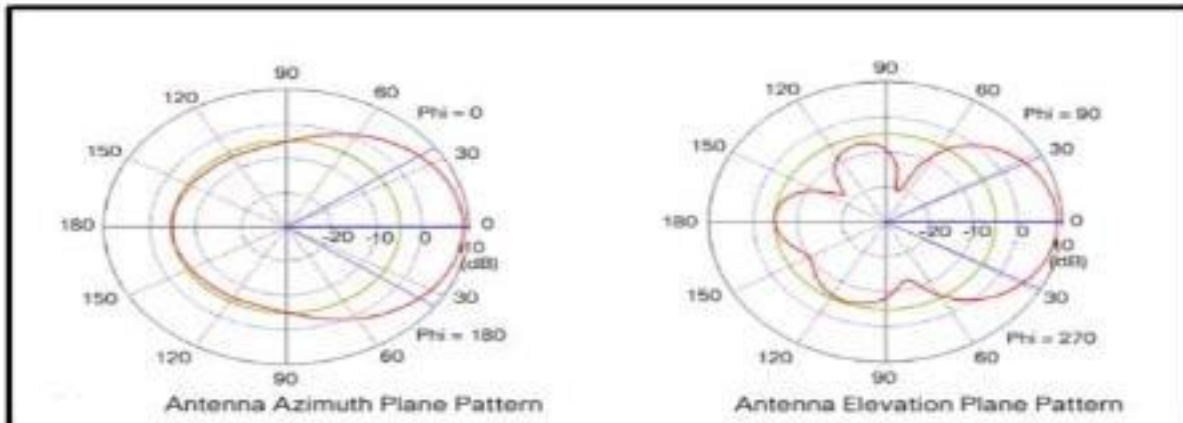
**Answer:** B

**NO.112** 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

**NO.113** Refer to the exhibit.



Which type of antenna do the radiation patterns present?

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

**Answer:** A

**NO.114** Which LISP infrastructure device provides connectivity between non-sites and LISP sites by receiving non-LISP traffic with a LISP site destination?

- A. PETR
- B. PITR
- C. map resolver
- D. map server

**Answer:** B

**NO.115** Which exhibit displays a valid JSON file?

- Option A:
- ```
{
  "hostname": "edge_router_1"
  "interfaces": {
    "GigabitEthernet1/1"
    "GigabitEthernet1/2"
    "GigabitEthernet1/3"
  }
}
```
- Option B:
- ```
{
  "hostname": "edge_router_1",
  "interfaces": {
    "GigabitEthernet1/1",
    "GigabitEthernet1/2",
    "GigabitEthernet1/3",
  },
}
```
- Option C:
- ```
{
  "hostname": "edge_router_1"
  "interfaces": [
    "GigabitEthernet1/1"
    "GigabitEthernet1/2"
    "GigabitEthernet1/3"
  ]
}
```
- Option D:
- ```
{
  "hostname": "edge_router_1",
  "interfaces": [
    "GigabitEthernet1/1",
    "GigabitEthernet1/2",
    "GigabitEthernet1/3"
  ]
}
```

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

**Answer:** D

**NO.116** Which method does the enable secret password option use to encrypt device passwords?

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

**Answer:** D

**NO.117** Which protocol does REST API rely on to secure the communication channel?

- A. TCP  
B. HTTPS

- C. SSH
- D. HTTP

**Answer:** B

**NO.118** 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.

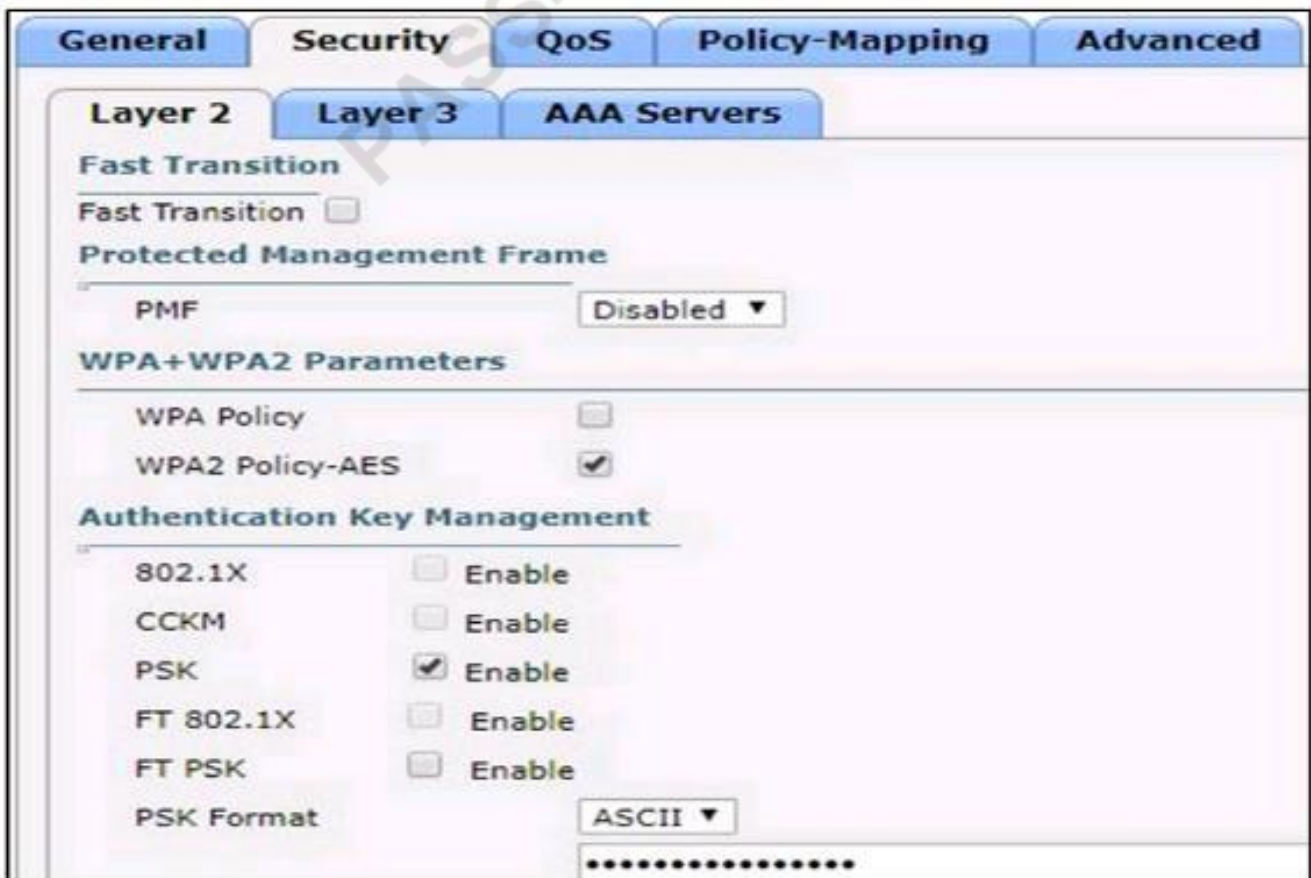
**Answer:** B

**NO.119** Which statement about multicast RPs is true?

- A. RPs are required only when using protocol independent multicast dense mode.
- B. RPs are required for protocol independent multicast sparse mode and dense mode.
- C. By default, the RP is needed periodically to maintain sessions with sources and receivers
- D. By default, the RP is needed only to start new sessions with sources and receivers.

**Answer:** D

**NO.120** Refer to the exhibit.



Based on the configuration in this WLAN security setting, Which method can a client use to authenticate to the network?

- A. text string

- B. username and password
- C. certificate
- D. RADIUS token

**Answer:** A

**NO.121** Which two GRE features are configured to prevent fragmentation? (Choose two.)

- A. TCP window size
- B. TCP MSS
- C. IP MTU
- D. DF bit clear
- E. MTU ignore

**Answer:** B C

**NO.122** 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)

```

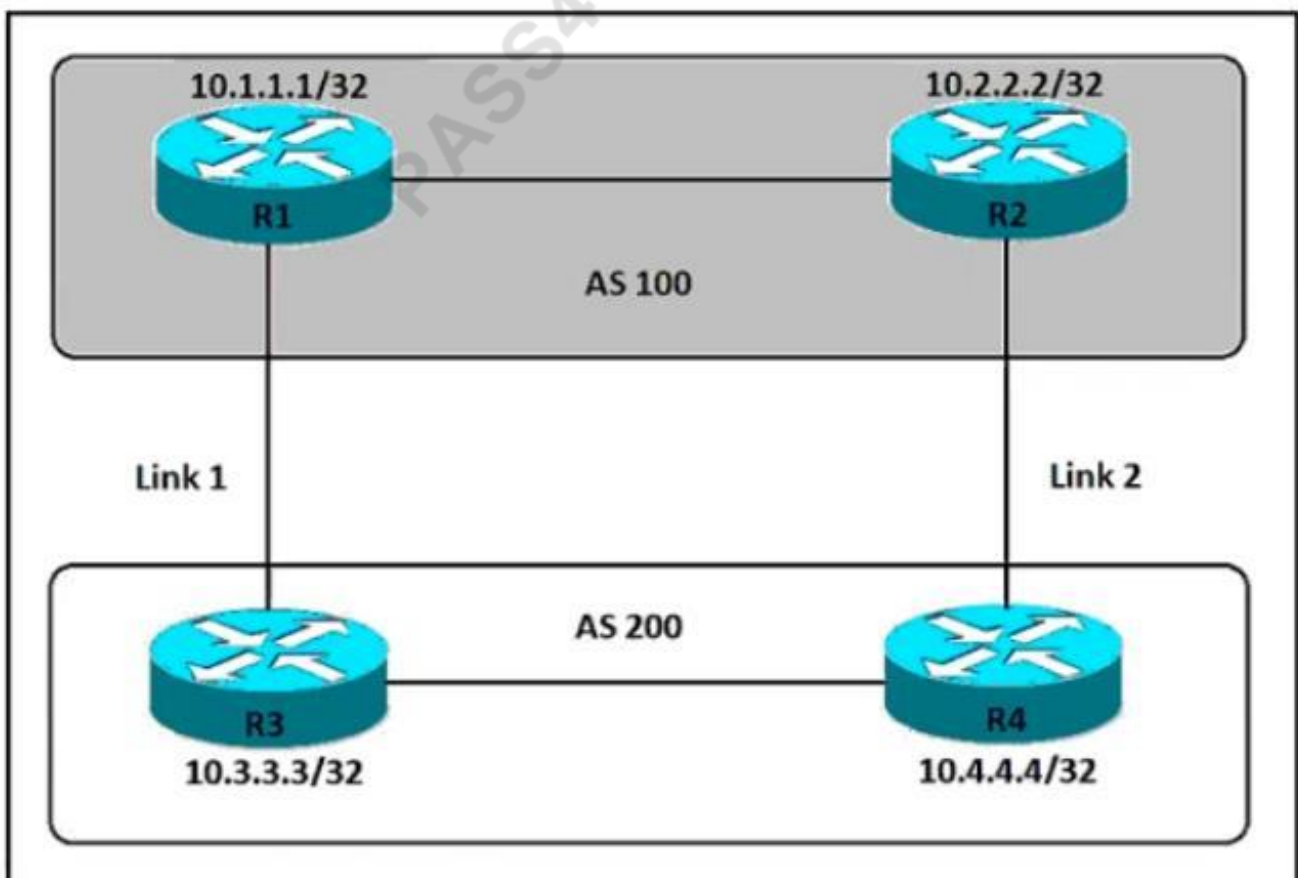
config t
  ip access-list extended EGRESS
  permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255

```

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

**Answer:** B**NO.123** 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**NO.124** Refer to the exhibit.

An engineer must ensure that all traffic leaving AS 200 will choose Link 2 as the exit point. Assuming that all BGP neighbor relationships have been formed and that the attributes have not been changed

on any of the routers, which configuration accomplish task?

- A. R4(config-router)bgp default local-preference 200
- B. R3(config-router)neighbor 10.1.1.1 weight 200
- C. R3(config-router)bgp default local-preference 200
- D. R4(config-router)neighbor 10.2.2.2 weight 200

**Answer:** A

**NO.125** 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:** B D

**NO.126** 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

**NO.127** Which devices does Cisco Center configure when deploying an IP-based access control policy?

- A. All devices integrating with ISE
- B. selected individual devices
- C. all devices in selected sites
- D. all wired devices

**Answer:** A

**NO.128** Which access controls list allows only TCP traffic with a destination port range of 22-433, excluding port 80?

- A. Deny tcp any any eq 80  
Permit tcp any any gt 21 lt 444
- B. Permit tcp any any ne 80
- C. Permit tcp any any range 22 443  
Deny tcp any any eq 80
- D. Deny tcp any any ne 80  
Permit tcp any any range 22 443

**Answer:** A

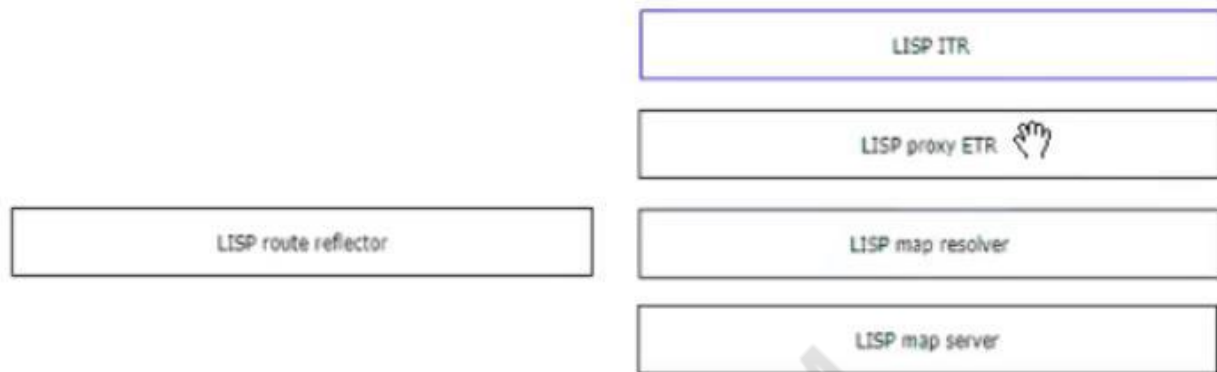
**NO.129** Drag and drop the LISP components from the left onto the function they perform on the right. Not all options are used.

**Answer:**

check the answer below.

Explanation

Components as on functions



**NO.130** Which NGFW mode block flows crossing the firewall?

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

**Answer:** C

**NO.131** Which tool is used in Cisco DNA Center to build generic configurations that are able to be applied on device with similar network settings?

- A. Command Runner
- B. Template Editor
- C. Application Policies
- D. Authentication Template

**Answer:** D

**NO.132** A client device roams between access points located on different floors in an atrium. The access points joined to the same controller and configuration in local mode. The access points are in different IP addresses, but the client VLAN in the group same. What type of roam occurs?

- A. inter-controller
- B. inter-subnet
- C. intra-VLAN
- D. intra-controller

**Answer:** B

**NO.133** What is the correct EBGP path attribute list, ordered from most preferred to the least preferred, that the BGP best-path algorithm uses?

- A. weight. AS path, local preference. MED
- B. weight, local preference AS path, MED
- C. local preference weight AS path, MED
- D. local preference, weight MED, AS path

**Answer:** B

**NO.134** Drag and drop the characteristics from the left onto the correct routing protocol types on the right.

|   |       |
|---|-------|
| supports unequal path load balancing  | OSPF  |
| link state routing protocol   |       |
| distance vector routing protocol  |       |
| metric is based on delay and reliability by default   | EIGRP |
| makes it easy to segment the network logically  |       |
| constructs three tables as part of its operation: neighbor table, topology table, and routing table |       |

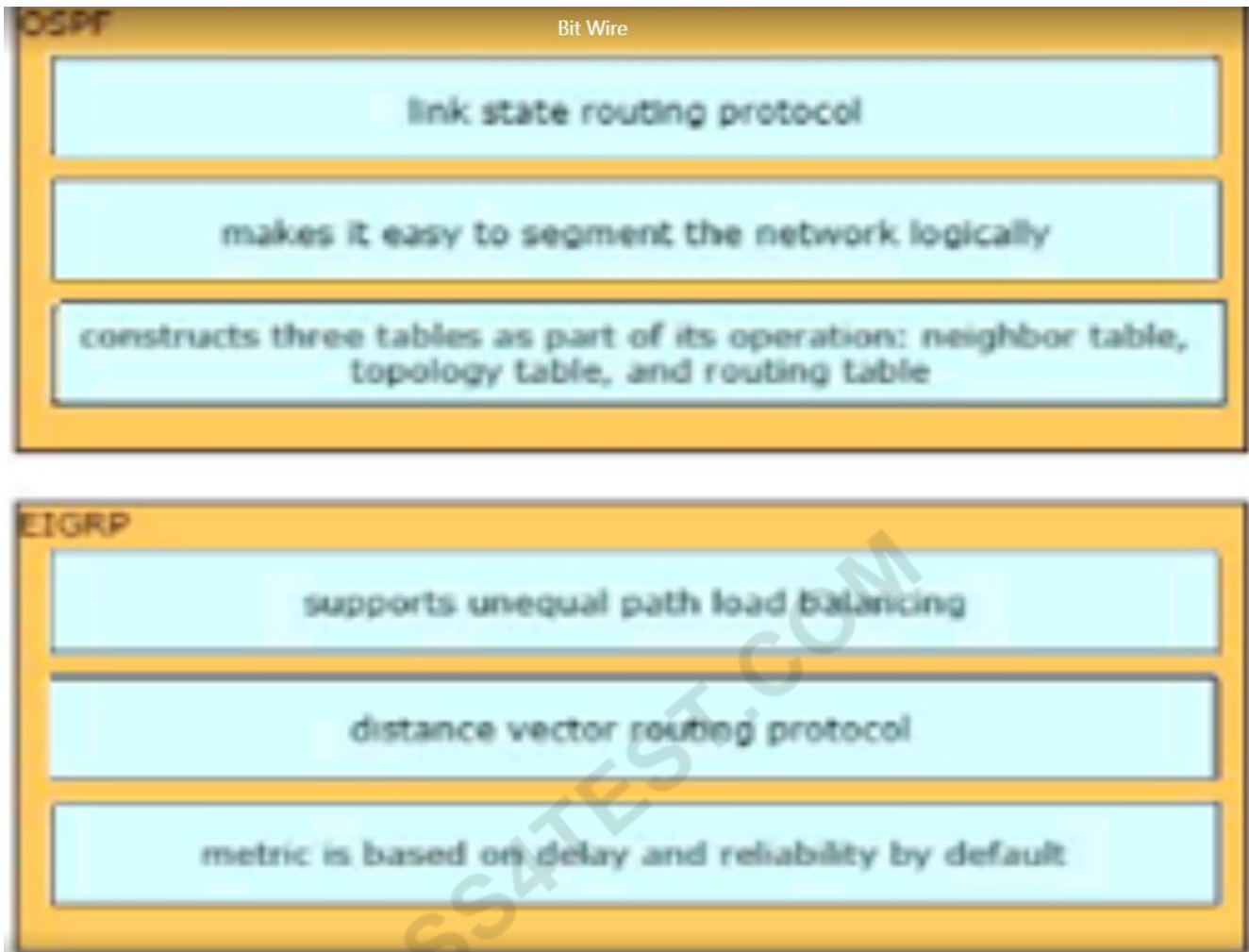
**Answer:**

|   |       |
|---|-------|
| supports unequal path load balancing  | OSPF  |
| link state routing protocol   |       |
| distance vector routing protocol  |       |
| metric is based on delay and reliability by default   | EIGRP |
| makes it easy to segment the network logically  |       |
| constructs three tables as part of its operation: neighbor table, topology table, and routing table |       |

Explanation

OSPF: SEGMENT, LINK STATE, TABLES

EIGRP: UNEQUAL PATH, DISTANCE VECTOR, METRIC



**NO.135** An engineer must protect their company against ransom ware attacks. Which solution allows the engineer to block the execution stage and prevent file encryption?

- A. Use Cisco AMP deployment with the Malicious Activity Protection engine enabled.
- B. Use Cisco AMP deployment with the Exploit Prevention engine enabled.
- C. Use Cisco Firepower and block traffic to TOR networks.
- D. Use Cisco Firepower with Intrusion Policy and snort rules blocking SMB exploitation.

**Answer:** A

**NO.136** 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

**NO.137** 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

**NO.138** Which statement about a fabric access point is true?

**A.** It is in local mode and must be connected directly to the fabric border node.

**B.** It is in FlexConnect mode and must be connected directly to the fabric border node.

**C.** It is in local mode and must be connected directly to the fabric edge switch.

**D.** It is in FlexConnect mode and must be connected directly to the fabric edge switch.

**Answer:** C

**NO.139** Which DNS lookup does an access point perform when attempting CAPWAP discovery?

**A.** CISCO-DNA-CONTROLLER local

**B.** CAPWAP-CONTROLLER local

**C.** CISCO-CONTROLLER local

**D.** CISCO-CAPWAP-CONTROLLER local

**Answer:** D

**NO.140** Which feature is supported by EIGRP but is not supported by OSPF?

**A.** route summarization

**B.** equal-cost load balancing

**C.** unequal-cost load balancing

**D.** route filtering

**Answer:** C

**NO.141** Which JSON syntax is valid?

{"switch": {"name": "dist1", "interfaces": ["gig1", "gig2", "gig3"]}}

{'switch': {'name': 'dist1', 'interfaces': ['gig1', 'gig2', 'gig3']}}

{"switch": {"name": "dist1", "interfaces": ["gig1", "gig2", "gig3"]}}

{/"switch/": {/"name/": "dist1", /"interfaces/": ["gig1", "gig2", "gig3"]}}

**A.** Option A

**B.** Option B

**C.** Option C

**D.** Option D

**Answer:** B

**NO.142** Which two operations are valid for RESTCONF? (Choose two.)

- A. HEAD
- B. REMOVE
- C. PULL
- D. PATCH
- E. ADD
- F. PUSH

**Answer:** A D

**NO.143** Refer to the exhibit.

```

R1#debug ip ospf hello
R1#debug condition interface Fa0/1
Condition 1 Set
  
```

Which statement about the OSPF debug output is true?

- A. The output displays all OSPF messages which router R1 has sent to received on interface Fa0/1.
- B. The output displays all OSPF messages which router R1 has sent or received on all interfaces.
- C. The output displays OSPF hello messages which router R1 has sent received on interface Fa0/1.
- D. The output displays OSPF hello and LSACK messages which router R1 has sent or received.

**Answer:** C

**NO.144** Which two methods are used by an AP that is trying 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:** C D

**NO.145** In an SD-Access solution what is the role of a fabric edge node?

- A. to connect external Layer 3- network to the SD-Access fabric
- B. to connect wired endpoint to the SD-Access fabric
- C. to advertise fabric IP address space to external network
- D. to connect the fusion router to the SD-Access fabric

**Answer:** A

**NO.146** Drag and drop the characteristics from the left onto the correct infrastructure deployment types on the right.

- customizable hardware, purpose-built systems
- easy to scale and upgrade
- more suitable for companies with specific regulatory or security requirements
- resources can be over or underutilized as requirements vary
- requires a strong and stable internet connection
- built-in, automated data backups and recovery

**On Premises**

**Cloud**

**Answer:**

- customizable hardware, purpose-built systems
- easy to scale and upgrade
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**On Premises**

- customizable hardware, purpose-built systems
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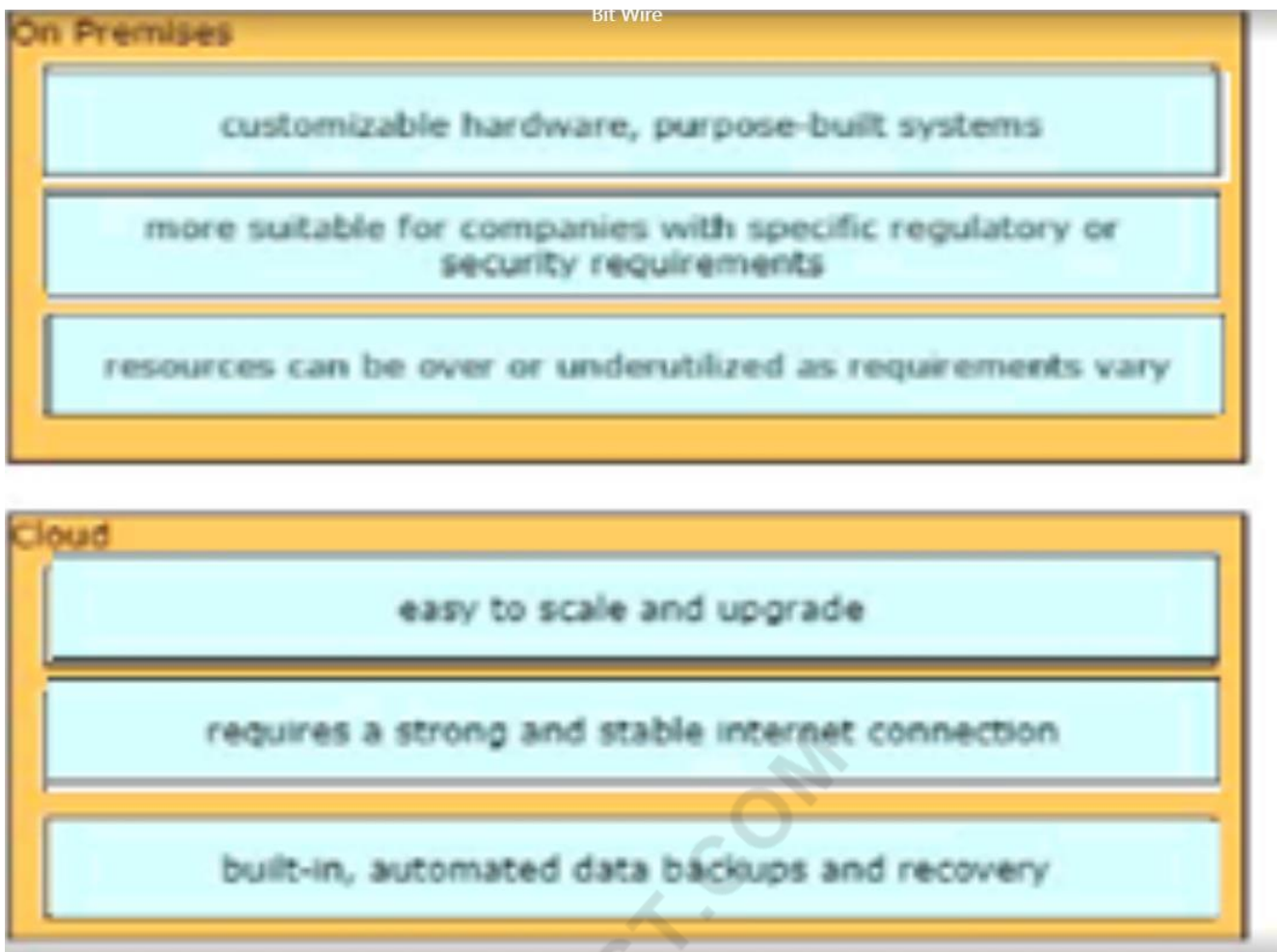
**Cloud**

- easy to scale and upgrade
- requires a strong and stable internet connection
- built-in, automated data backups and recovery

**Explanation**

On premise: customizable, specific requirements, resources

Cloud: scale, built-in automated backup, strong stable internet



**NO.147** An engineer configures a WLAN with fast transition enabled. Some legacy clients fail to connect to this WLAN. Which feature allows the legacy clients to connect while still allowing other clients to use fast transition based on their OLTIs?

- A. over the DS
- B. adaptive R
- C. 802.11V
- D. 802.11k

**Answer:** B

**NO.148** Which IP SLA operation requires the IP SLA responder to be configured on the remote end?

- A. ICMP echo
- B. UDP jitter
- C. CMP jitter
- D. TCP connect

**Answer:** D