

Exam : **350-401**

Title : Implementing and Operating
Cisco Enterprise Network Core
Technologies

Vendor : Cisco

Version : V15.95

NO.1 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.2 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.3 Drag and Drop the decryptions from the left onto the routing protocol they describe on the right.

summaries can be created anywhere in the IGP topology	OSPF
uses areas to segment a network	
DUAL algorithm	EIGRP
summaries can be created in specific parts of the IGP topology	

Answer:

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OSPF

summaries can be created in specific parts of the IGP topology

uses areas to segment a network

EIGRP

DUAL algorithm

summaries can be created anywhere in the IGP topology

NO.4 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.5 Which PAgP mode combination prevents an Etherchannel from forming?

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

Answer: A

NO.6 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.

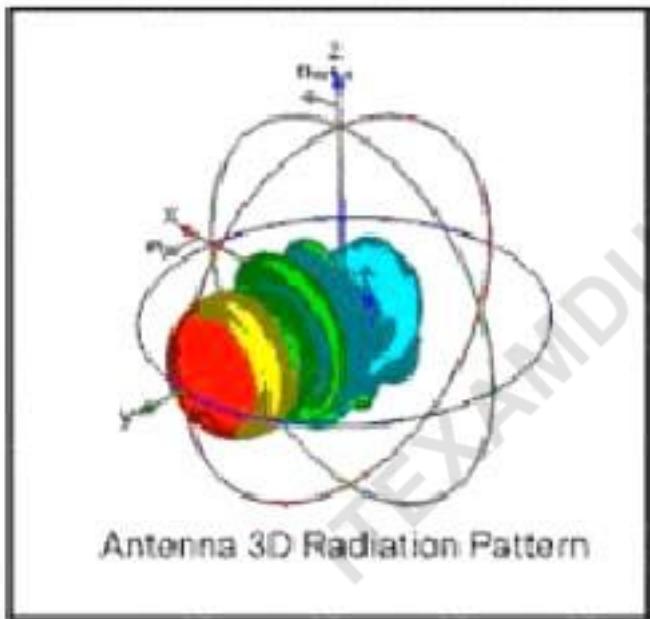
Answer: B

NO.7 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.8 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.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 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.11 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: C

NO.12 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.13 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.14 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

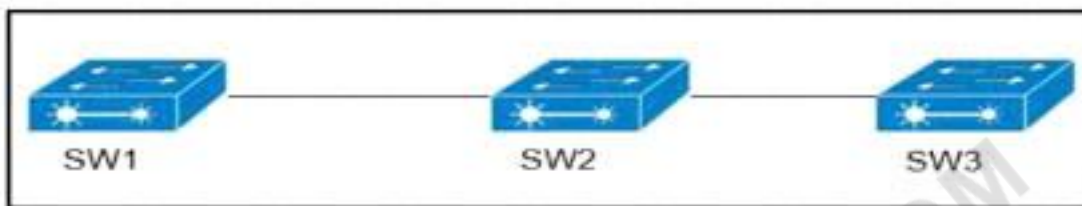
D)

```
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

NO.15 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.16 A server running Linux is providing support for virtual machines along with DNS and DHCP services for a small business. Which technology does this represent?

- A. container
- B. Type 1 hypervisor
- C. hardware pass-thru
- D. Type 2 hypervisor

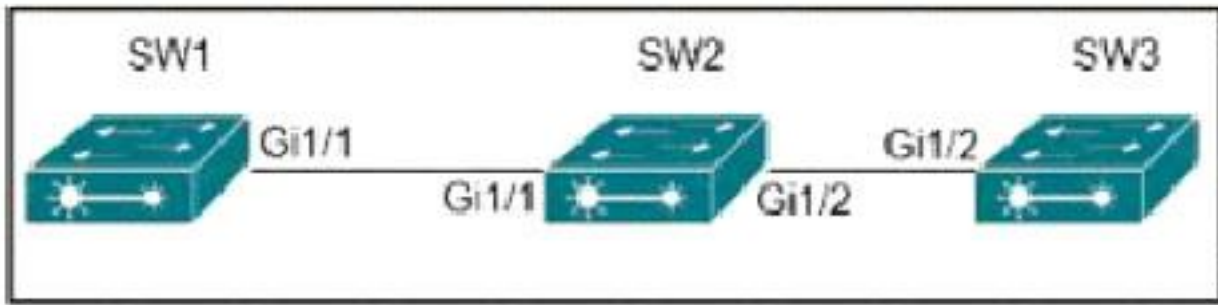
Answer: D

NO.17 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.18



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: C

NO.19 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.20 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.21 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
- C. Permit 10.0.0.1.0.0.0.254
- D. Permit 10.0.0.0.255.255.255.254

Answer: C

NO.22 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.23 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.24 Refer to the exhibit.

Clients > Detail

< Back Apply Link Test Remove

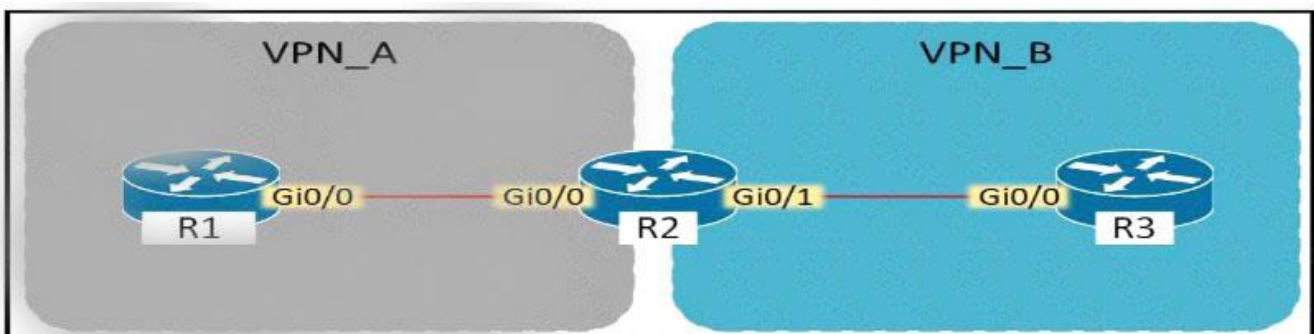
Client Properties		AP Properties	
MAC Address	80:09:ef:06:87:bd	AP Address	172.22.253.28
IP Address	192.168.100.199	AP Name	172.22.253.28
Client Type	Regular	AP Type	Mobile
User Name		WMM Profile	Staff
Port Number	29	Status	Associated
Interface	Staff	Association ID	0
VLAN ID	3603	802.11 Authentication	Open System
LLX Version	Not Supported	Reason Code	1
FTF Version	Not Supported	Status Code	0
Mobility Role	Anchor	CF Pollable	Not Implemented
Mobility Peer	172.22.253.28	CF Poll Request	Not Implemented
IP Address		Short Preamble	Implemented
Policy Manager	RUN	PBCC	Not Implemented
Status		Channel Agility	Not Implemented
Management Frame Protection	No	Timeout	0
Uptime (Sec)	3719	WMM Status	WMM Enable
Power Save Mode	OFF		
Current TxRateSet	5.5,11.0,6.0,9.0,12.0,18.0,24.0,36.0,48.0		
Data RateSet	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.25 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: B

NO.26 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.27 Drag the drop the description from the left onto the routing protocol they describe on the right.

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NO.28 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.29 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.30 Which action is a function of VTEP in VXLAN?

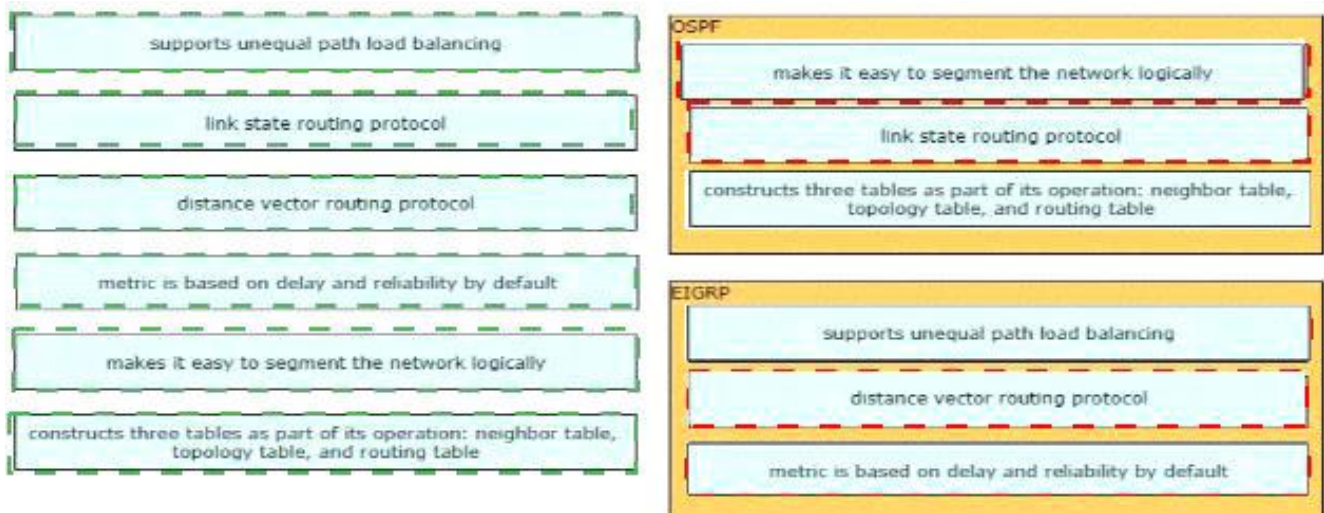
- A.** tunneling traffic from IPv6 to IPv4 VXLANs
- B.** allowing encrypted communication on the local VXLAN Ethernet segment
- C.** encapsulating and de-encapsulating VXLAN Ethernet frames
- D.** tunneling traffic from IPv4 to IPv6 VXLANs

Answer: C

NO.31 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	

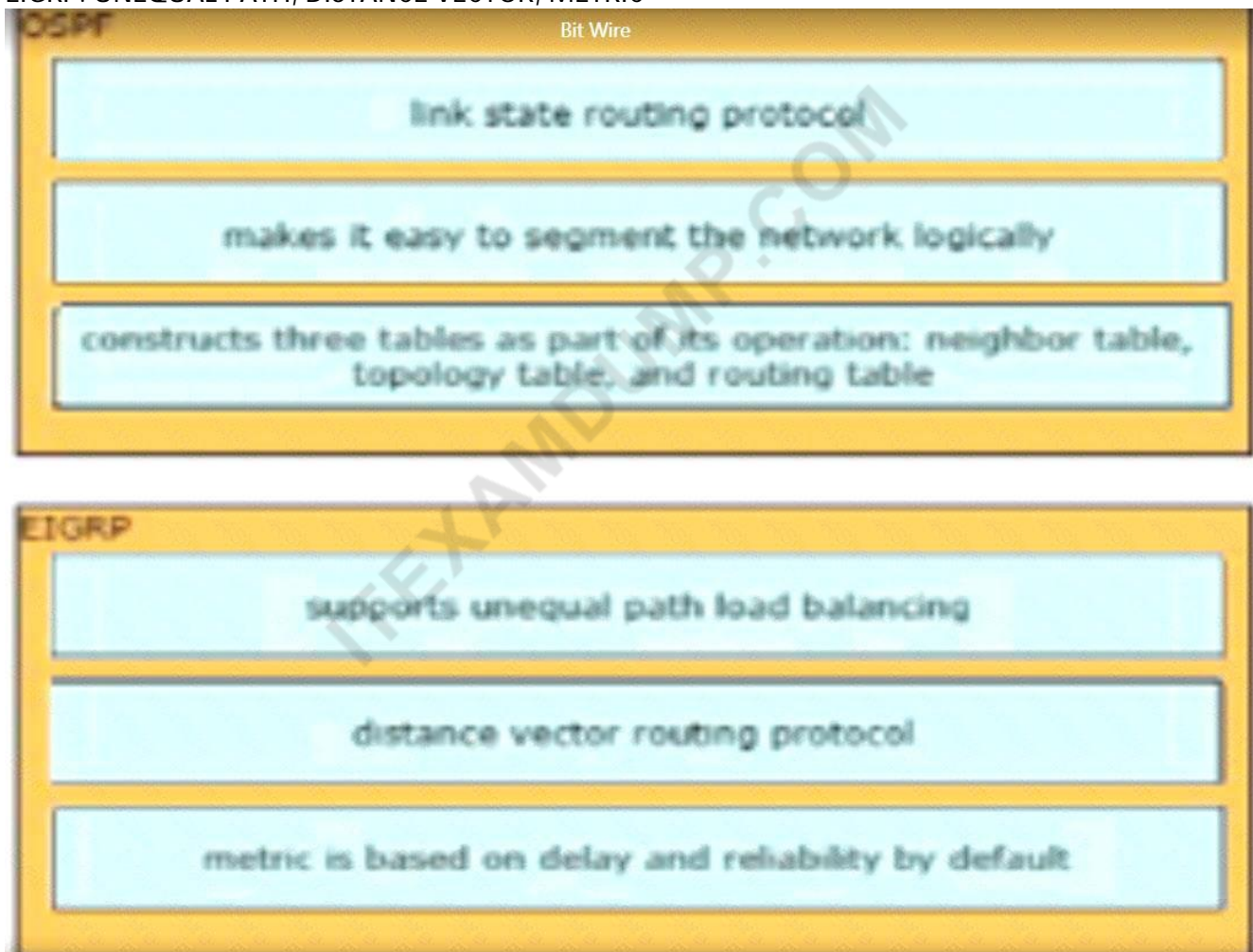
Answer:



Explanation

OSPF: SEGMENT, LINK STATE, TABLES

EIGRP: UNEQUAL PATH, DISTANCE VECTOR, METRIC



NO.32 Which feature must be configured to allow packet capture over Layer 3 infrastructure'?

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

D. ERSPAN

Answer: D

NO.33 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.34 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.35 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.36 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: A

NO.37 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.38 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.39 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.40 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

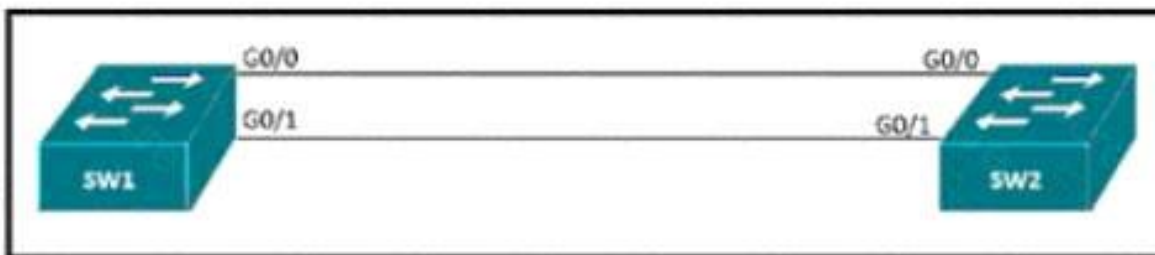
Answer: A

NO.41 Which protocol infers that a YANG data model is being used?

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

Answer: D

NO.42 Refer to the exhibit.



An engineer reconfigures the port-channel between SW1 and SW2 from an access port to a trunk and immediately notices this error in SW1's log.

Which command set resolves this error?

A)

```
SW1(config-if)#interface G0/0
SW1(config-if)#spanning-tree bpduguard enable
SW1(config-if)#shut
SW1(config-if)#no shut
```

B)

```
SW1(config-if)#interface G0/0
SW1(config-if)#no spanning-tree bpduguard enable
SW1(config-if)#shut
SW1(config-if)#no shut
```

C)

```
SW1(config-if)#interface G0/1
SW1(config-if)#spanning-tree bpduguard enable
SW1(config-if)#shut
SW1(config-if)#no shut
```

D)

```
SW1(config-if)#interface G0/0
SW1(config-if)#no spanning-tree bpduguard enable
SW1(config-if)#shut
SW1(config-if)#no shut
```

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

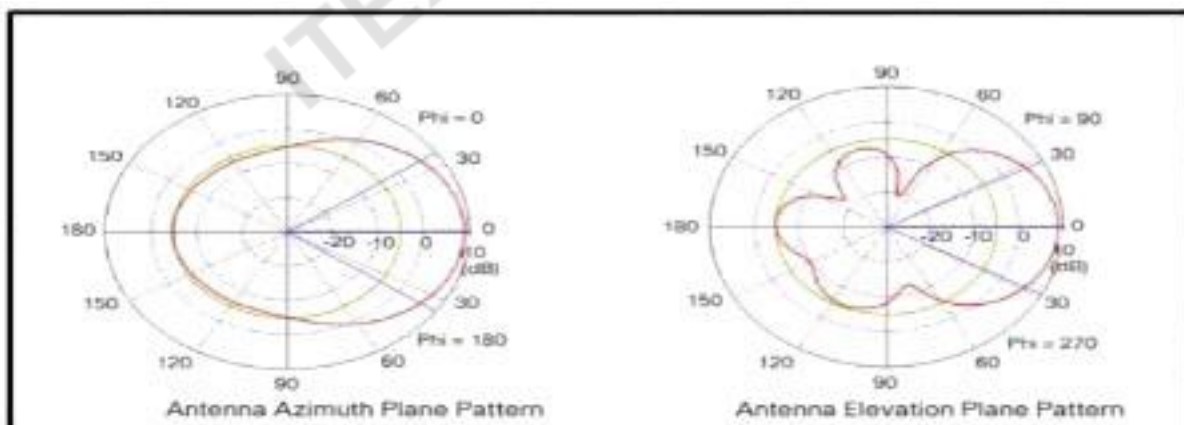
Answer: B

NO.43 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: C

NO.44 Refer to the exhibit.



Which type of antenna do the radiation patterns present?

- A. Patch
- B. Omnidirectional

- C. Yagi
- D. Dipole

Answer: A

NO.45 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.46 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.47 What is calculated using the numerical values of the transmitter power level, cable loss, and antenna gain?

- A. EIRP
- B. dBi
- C. RSSI
- D. SNR

Answer: B

NO.48 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.49 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.50 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.51 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.52 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.53 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.54 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.55 Refer to the exhibit.

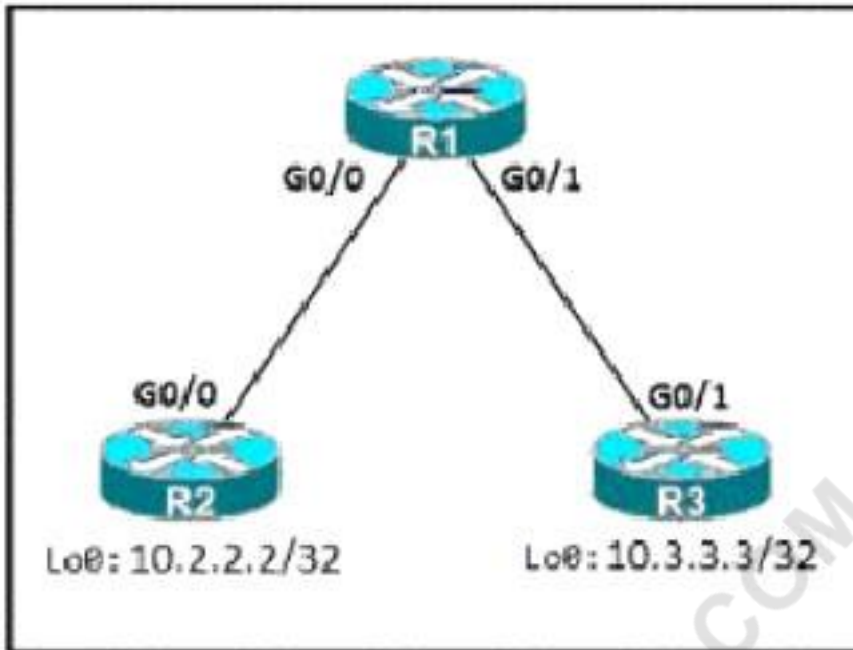


Link1 is a copper connection and Link2 is a fiber connection. The fiber port must be the primary port for all forwarding. The output of the show spanning-tree command on SW2 shows that the fiber port is blocked by spanning tree. An engineer enters the spanning-tree port-priority 32 command on G0/1 on 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.56 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.57 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.58 Refer to the exhibit.

WLANs > Edit "Guest_Wireless"

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

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	None	Server 1	None
Server 2	None	Server 2	None
Server 3	None	Server 3	None
Server 4	None	Server 4	None
Server 5	None	Server 5	None
Server 6	None	Server 6	None

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.59 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.60 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

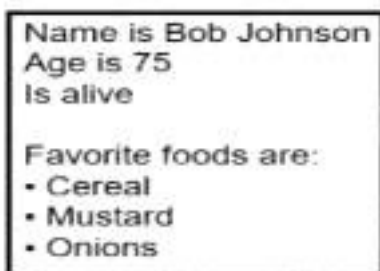
Answer: A

NO.61 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.62 Refer to the exhibit.



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.63 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.

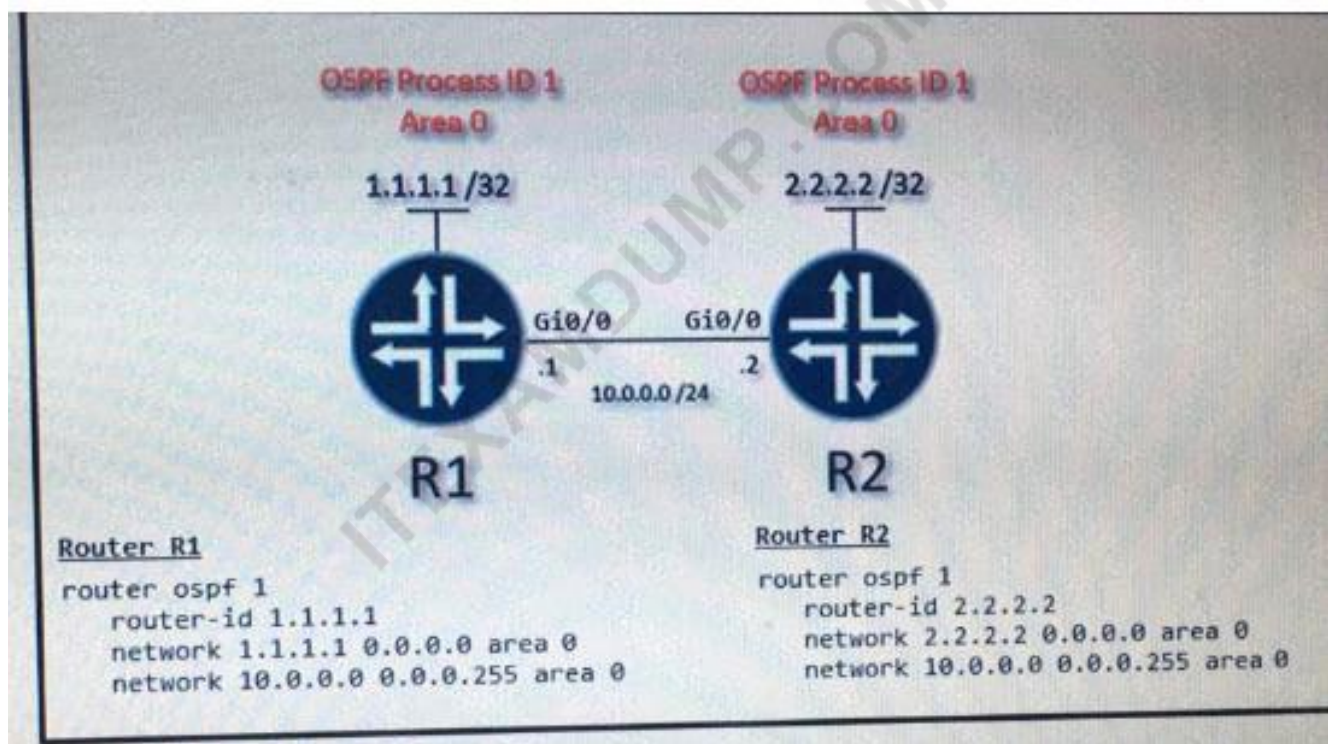
Answer: B

NO.64 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.65 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.66 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.67 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.68 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.69 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.70 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.71 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.72 Which controller is the single plane of management for Cisco SD-WAN?

A. vBond

B. vEdge

C. vSmart

D. vManage

Answer: D

NO.73 Which protocol does REST API rely on to secure the communication channel?

A. TCP

B. HTTPS

C. SSH

D. HTTP

Answer: B

NO.74 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.75 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.76 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

NO.77 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.78 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.79 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.80 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.81 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.82 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.83 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.84 Which exhibit displays a valid JSON file?

- ☐

```
{
  "hostname": "edge_router_1"
  "interfaces": {
    "GigabitEthernet1/1"
    "GigabitEthernet1/2"
    "GigabitEthernet1/3"
  }
}
```
- ☐

```
{
  "hostname": "edge_router_1",
  "interfaces": {
    "GigabitEthernet1/1",
    "GigabitEthernet1/2",
    "GigabitEthernet1/3",
  },
}
```
- ☐

```
{
  "hostname": "edge_router_1"
  "interfaces": {
    "GigabitEthernet1/1"
    "GigabitEthernet1/2"
    "GigabitEthernet1/3"
  }
}
```
- ☒

```
{
  "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.85 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.86 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

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 action is a function of VTEP in VXLAN?

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

Answer: B

NO.89 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: B

NO.90 Which statement about an RSPAN session configuration is true?

- A. A fitter mutt 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.91 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.92 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.93 What is the role of the vsmart controller in a Cisco SD-WAN environment?

- A. IT performs authentication and authorization
- B. It manages the control plane.
- C. It is the centralized network management system.
- D. It manages the data plane.

Answer: B

NO.94 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.95 In which part of the HTTP message is the content type specified?

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

Answer: C

NO.96 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.97 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.98 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

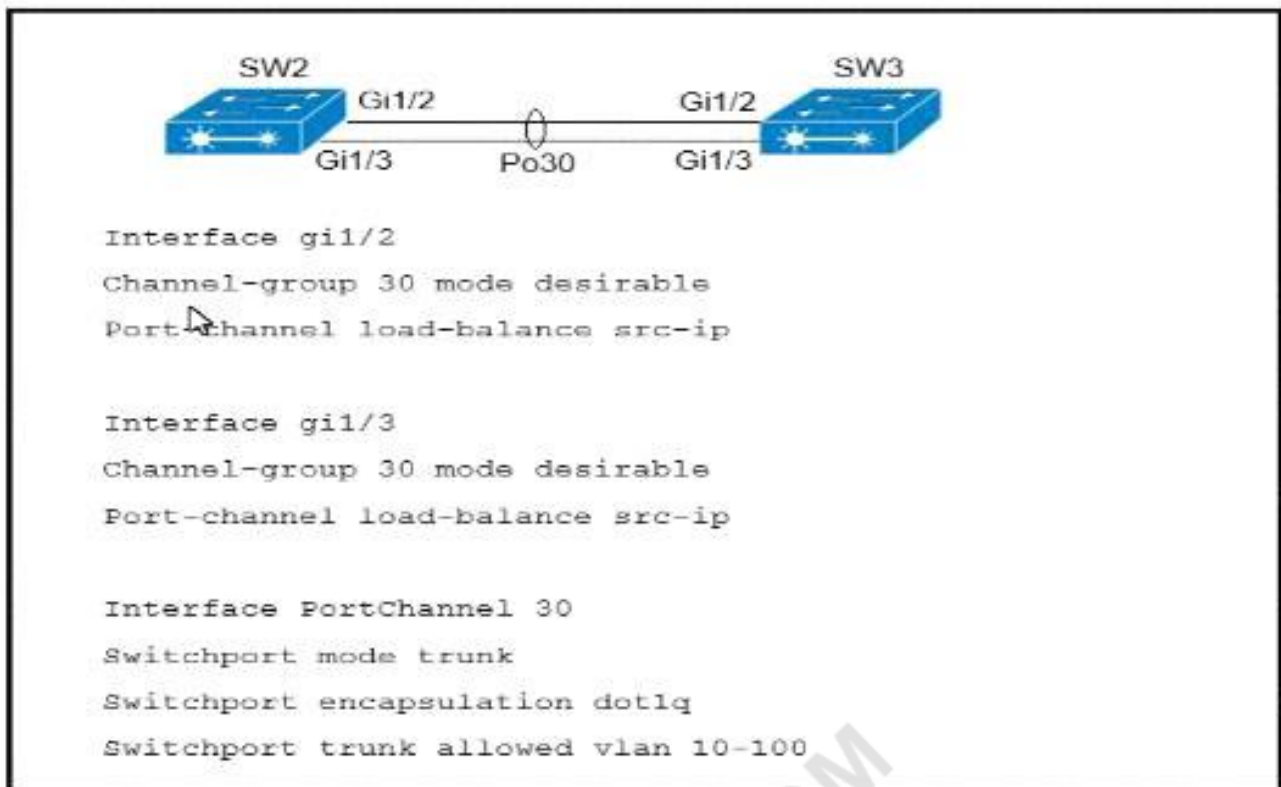
Answer: B

NO.99 What function does vxlan perform in an SD-Access deployment?

- A. policy plane forwarding
- B. control plane forwarding
- C. data plane forwarding
- D. systems management and orchestration

Answer: C

NO.100 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.101 Refer to the exhibit.

The screenshot shows the 'Security' tab of a WLAN configuration interface. Under the 'Layer 3' sub-tab, the 'Fast Transition' checkbox is unchecked. The 'Protected Management Frame' section shows 'PMF' set to 'Disabled'. The 'WPA+WPA2 Parameters' section shows 'WPA Policy' unchecked and 'WPA2 Policy-AES' checked. The 'Authentication Key Management' section lists several options: '802.1X' (unchecked), 'CCKM' (unchecked), 'PSK' (checked), 'FT 802.1X' (unchecked), 'FT PSK' (unchecked), and 'PSK Format' (set to 'ASCII'). A password field with dots is visible at the bottom.

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

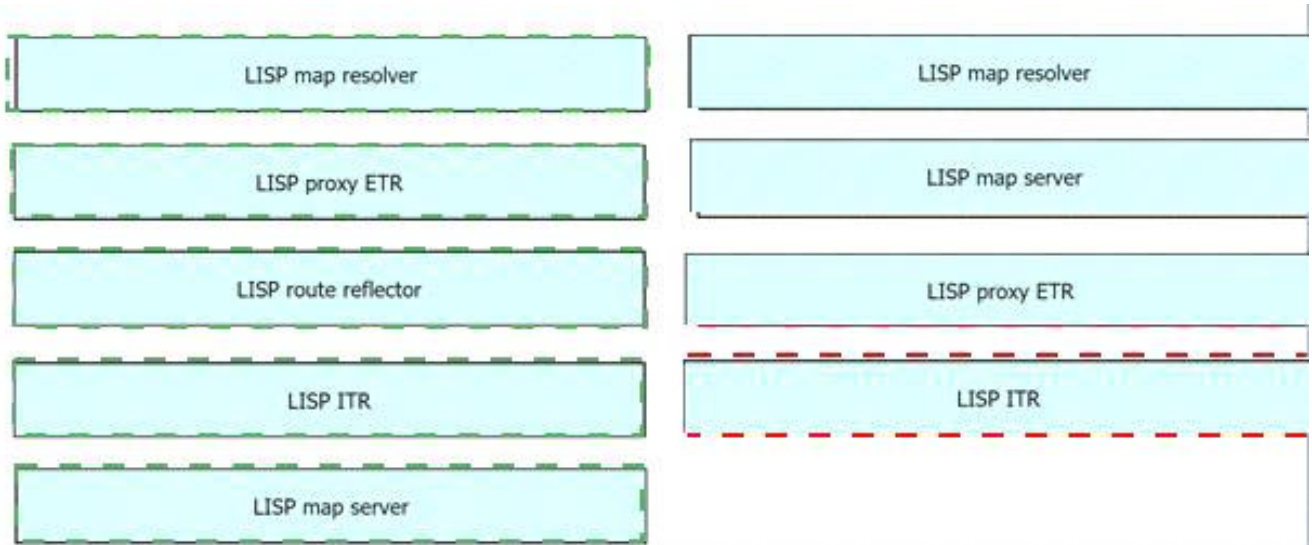
- A. text string
- B. username and password
- C. certificate
- D. RADIUS token

Answer: A

NO.102 Drag and drop the LISP components from the left onto the function they perform on the right. Not all options are used.

LISP map resolver	accepts LISP encapsulated map requests
LISP proxy ETR	learns of EID prefix mapping entries from an ETR
LISP route reflector	receives traffic from LISP sites and sends it to non-LISP sites
LISP ITR	receives packets from site-facing interfaces
LISP map server	

Answer:



LISP map resolver

LISP map server

LISP proxy ETR

LISP ITR

NO.103 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: B

NO.104 Which NGFW mode block flows crossing the firewall?

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

D. Inline

Answer: D

NO.105 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.106 Which two LISP infrastructure elements are needed to support LISP to non-LISP internetworking? (Choose two)

A. PETR

B. PITR

C. MR

D. MS

E. ALT

Answer: A C

NO.107 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.108 In a Cisco SD-WAN solution, how is the health of a data plane tunnel monitored?

A. with IP SLA

- B. ARP probing
- C. using BFD
- D. with OMP

Answer: C

NO.109 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.110 Which two security features are available when implementing NTP? (Choose two)

- A. symmetric server passwords
- B. dock offset authentication
- C. broadcast association mode
- D. encrypted authentication mechanism
- E. access list-based restriction scheme

Answer: D E

NO.111 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.112** In an SD-WAN deployment, which action in the vSmart controller responsible for?

- A. handle, maintain, and gather configuration and status for nodes within the SD-WAN fabric
- B. distribute policies that govern data forwarding performed within the SD-WAN fabric
- C. gather telemetry data from vEdge routers
- D. onboard vEdge nodes into the SD-WAN fabric

Answer: B**NO.113** Which method does the enable secret password option use to encrypt device passwords?

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

Answer: D**NO.114** 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.115 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.116 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

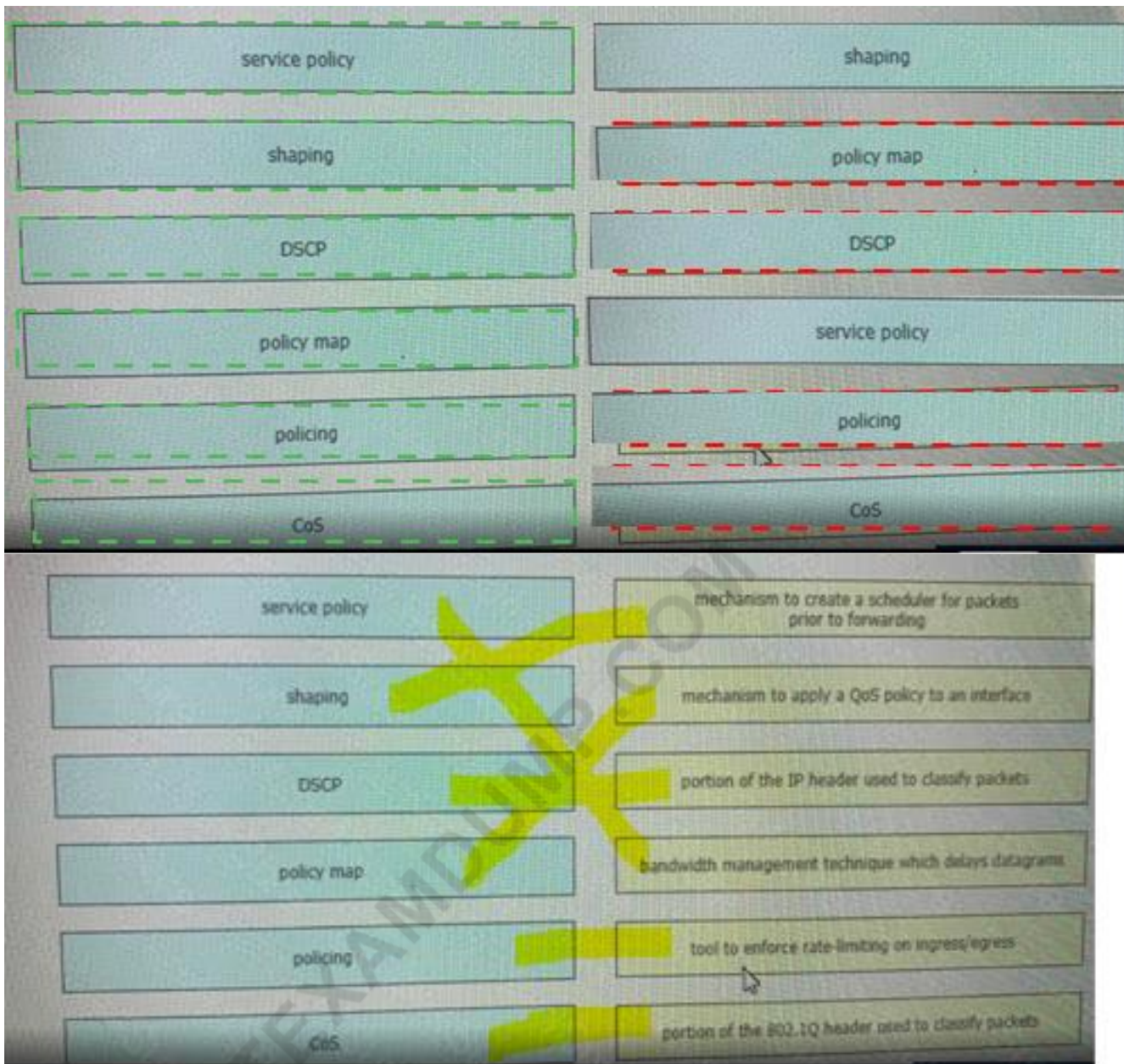
D. increase the dynamic channel assignment interval

Answer: D

NO.117 Drag and drop the Qos mechanisms from the left to the correct descriptions on the right

service policy	mechanism to create a scheduler for packets prior to forwarding
shaping	mechanism to apply a QoS policy to an interface
DSCP	portion of the IP header used to classify packets
policy map	bandwidth management technique which delays datagrams
policing	tool to enforce rate-limiting on ingress/egress
CoS	portion of the 802.1Q header used to classify packets

Answer:



NO.118 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: B

NO.119 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: C

NO.120 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.121 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.122 Which statements are used for error handling in Python?

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

Answer: B

NO.123 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 not supported on Cisco devices.
- C. It requires certificates for authentication.
- D. It is used for HTTP and HTTPS requests.

Answer: C

NO.124 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

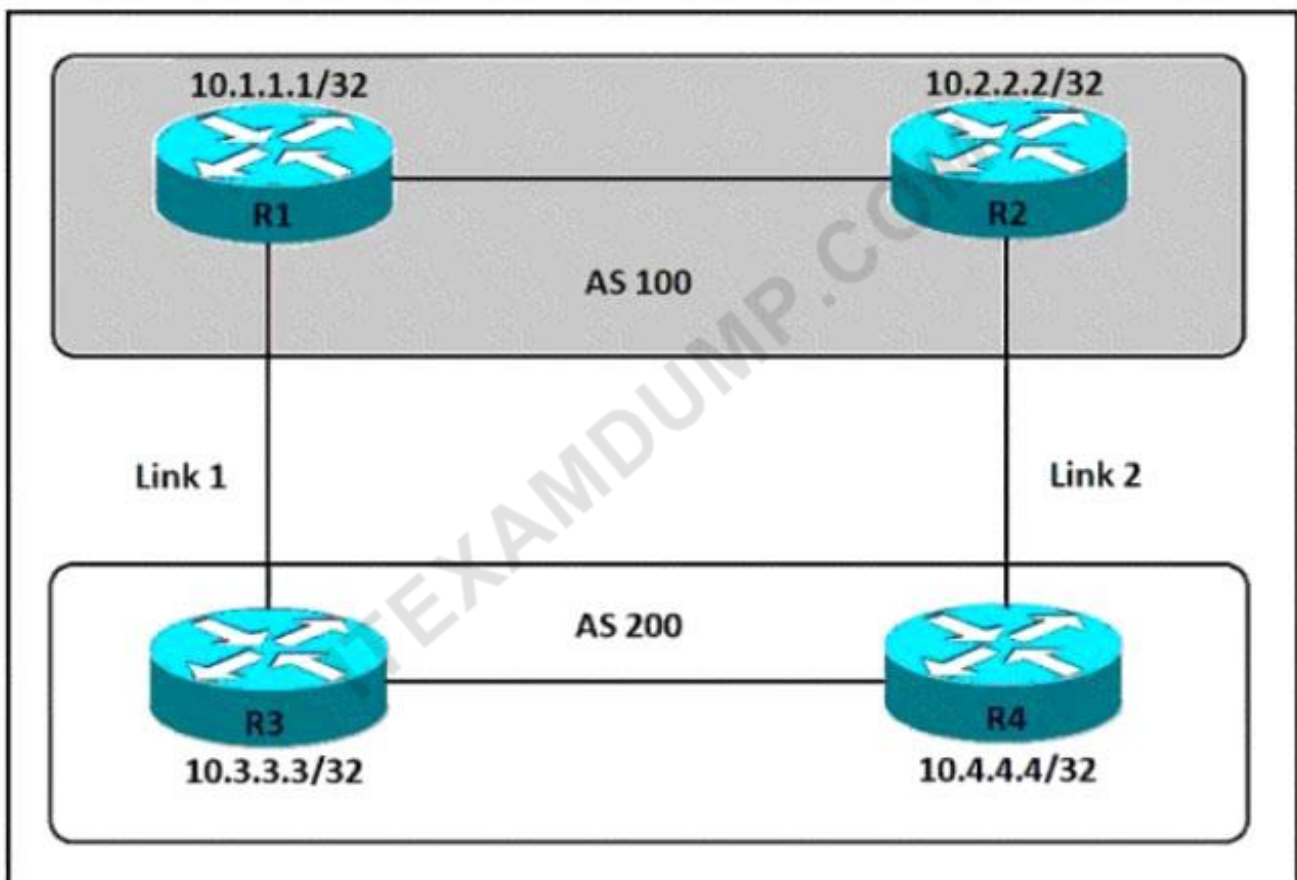
NO.125 What is the result of applying this access control list?

```
ip access-list extended STATEFUL
10 permit tcp any any established
20 deny ip any any
```

- A. TCP traffic with the URG bit set is allowed
- B. TCP traffic with the SYN bit set is allowed
- C. TCP traffic with the ACK bit set is allowed
- D. TCP traffic with the DF bit set is allowed

Answer: C

NO.126 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)nighbor 10.2.2.2 weight 200

Answer: A

NO.127 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.128 What mechanism does PIM use to forward multicast traffic?

- A. PIM sparse mode uses a pull model to deliver multicast traffic.
- B. PIM dense mode uses a pull model to deliver multicast traffic.
- C. PIM sparse mode uses receivers to register with the RP.
- D. PIM sparse mode uses a flood and prune model to deliver multicast traffic.

Answer: A

NO.129 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

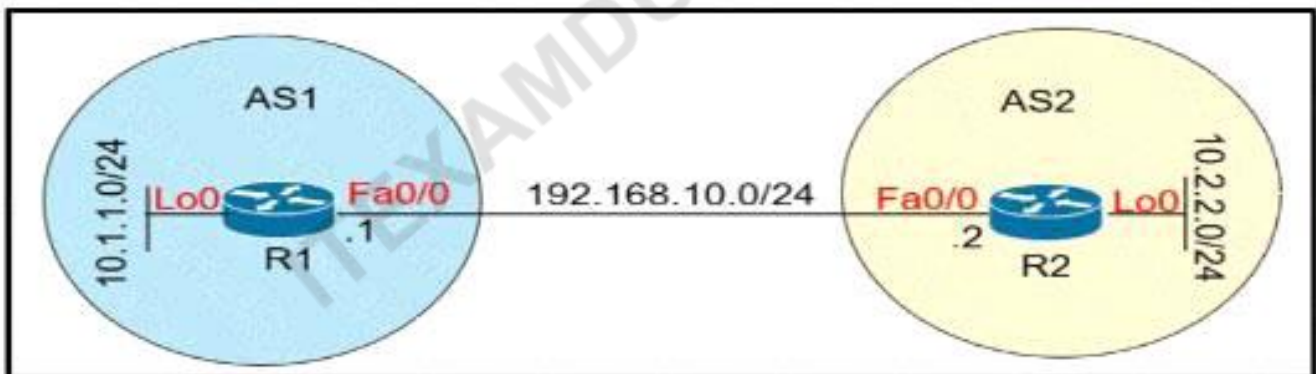
Answer: C

NO.130 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.131 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.132 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
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

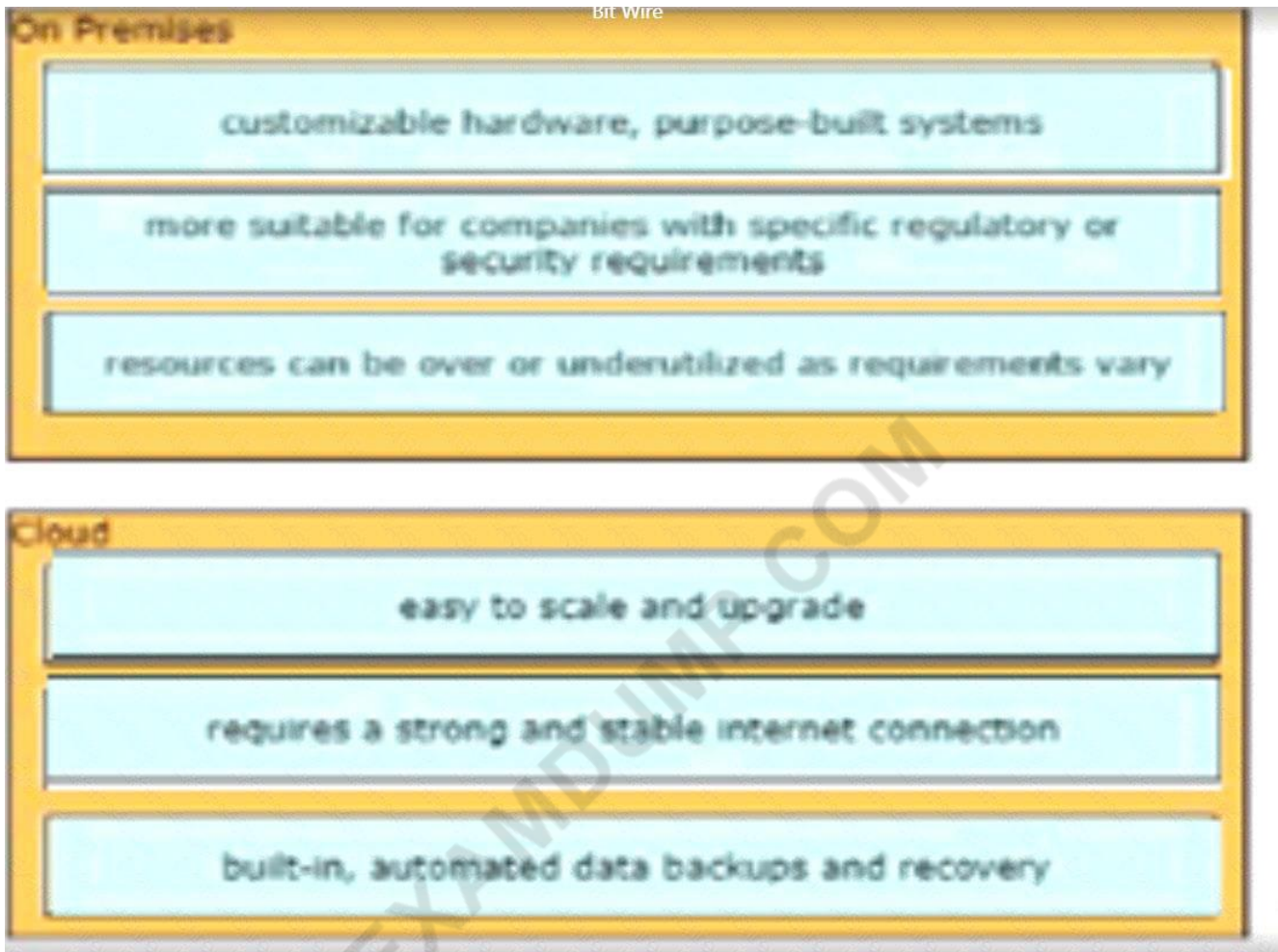
On Premises
customizable hardware, purpose-built systems
more suitable for companies with specific regulatory or security requirements
resources can be over or underutilized as requirements vary

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.133 Which configuration restricts the amount of SSH that a router accepts 100 kbps?

A)

```
class-map match-all CuFF_SSH
  match access-group name CuFF_SSH
}
policy-map CuFF_SSH
  class CuFF_SSH
    police p1r 100000
    exceed-action drop
  }
}

interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group EGRESS out
  duplex auto
  speed auto
  media-type rj45
  service-policy input CuFF_SSH
}

ip access-list extended CuFF_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 100000
      exceed-action drop
  !
!
interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group 800000 out
  duplex auto
  speed auto
  media-type rj45
  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 100000
      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.134 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: B

NO.135 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.136 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.137 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.138 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.139 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.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 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: A

NO.142 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.143 When configuration WPA2 Enterprise on a WLAN, which additional security component configuration is required?

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

Answer: A

NO.144 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.145 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.146 At which Layer does Cisco DNA Center support REST controls?

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

Answer: D

NO.147 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: B

NO.148 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.149 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.150 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.151 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 RADIUS server is checked.
- D. A local database is checked first. If that check fails, a TACACS+server is checked.

Answer: D

NO.152 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 then OLTIs?

- A. over the DS

B. adaptive R

C. 802.11V

D. 802.11k

Answer: B

NO.153 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.154 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": "eoc",
    "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": "04/08/2017",
          "kick_file_name": "bootflash://nxos.7.0.3.i7.4.bin",
          "kick_cmpl_time": "6/14/1970 2:00:00",
          "kick_tmstamp": "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",
          "ir_usecs": "134703",
          "ir_ctime": "Sun Mar 10 15:41:46 2019",
          "ir_reason": "Reset Requested by CLI command reload",
          "ir_sys_ver": "7.0(3)I7(4)",
          "ir_service": "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: D

NO.155 Drag and drop the description from the left onto the correct QoS components on the right.

causes TCP retransmissions when traffic is dropped	Traffic Policing
buffers excessive traffic	
introduces no delay and jitter	
introduces delay and jitter	
drops excessive traffic	
typically delays, rather than drops traffic	Traffic Shaping

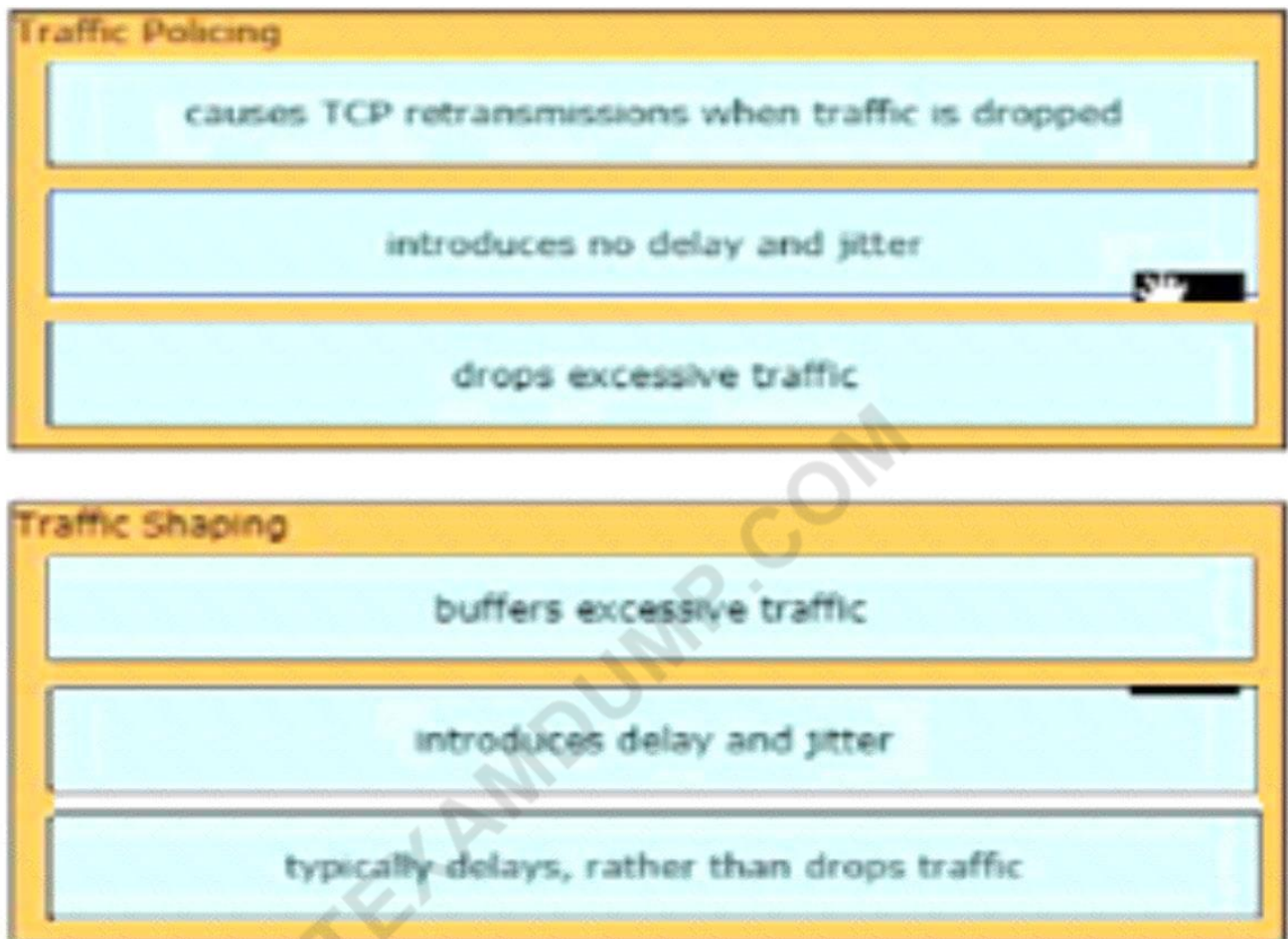
Answer:

causes TCP retransmissions when traffic is dropped	Traffic Policing
buffers excessive traffic	drops excessive traffic
introduces no delay and jitter	causes TCP retransmissions when traffic is dropped
introduces delay and jitter	introduces no delay and jitter
drops excessive traffic	
typically delays, rather than drops traffic	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.156 Which characteristic distinguishes Ansible from Chef?

- A. Ansible lacks redundancy support for the master server. Chef runs two masters in an active/active mode.
- B. Ansible uses Ruby to manage configurations. Chef uses YAML to manage configurations.
- C. Ansible pushes the configuration to the client. Chef client pulls the configuration from the server.
- D. The Ansible server can run on Linux, Unix or Windows. The Chef server must run on Linux or Unix.

Answer: C

NO.157 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.158 Which component handles the orchestration plane of the Cisco SD-WAN?

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

D. vEdge

Answer: A

NO.159 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.160 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.161 Drag and drop the characteristics from the left onto the correct infrastructure deployment types on the right.

significant initial investment but lower reoccurring costs

pay-as-you-go model

physical location of data can be defined in contract with provider

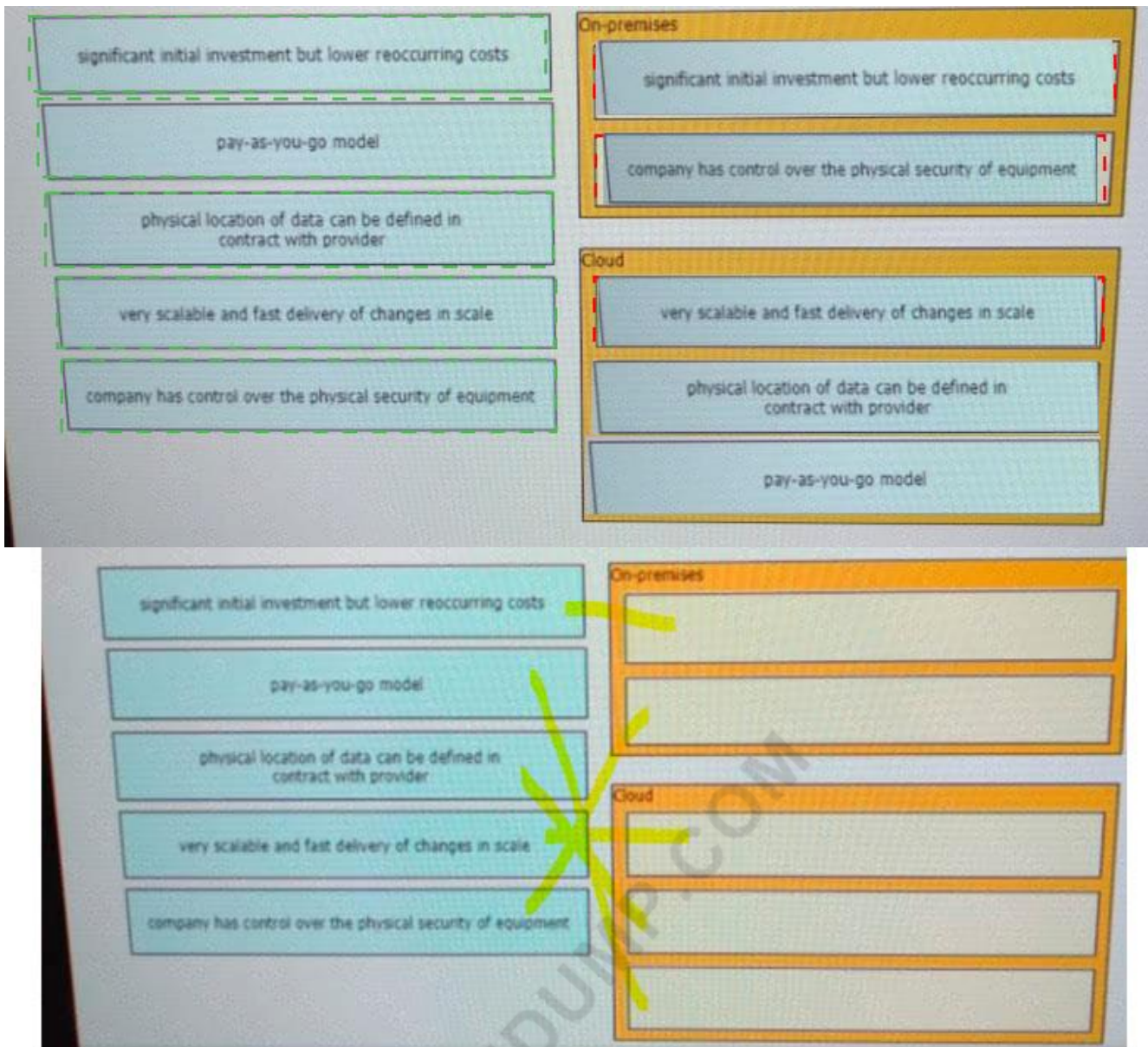
very scalable and fast delivery of changes in scale

company has control over the physical security of equipment

On-premises

Cloud

Answer:



NO.162 What is the correct EGBP 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.163 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

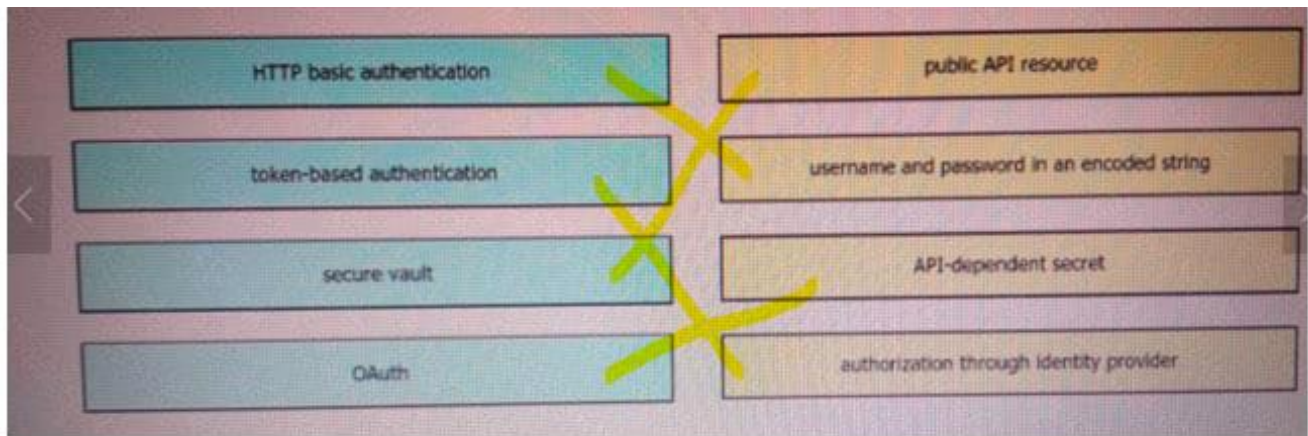
Answer: C

NO.164 Drag and drop the REST API authentication method from the left to the description on the right.

HTTP basic authentication	public API resource
token-based authentication	username and password in an encoded string
secure vault	API-dependent secret
OAuth	authorization through identity provider

Answer:

HTTP basic authentication	secure vault
token-based authentication	HTTP basic authentication
secure vault	OAuth
OAuth	token-based authentication



NO.165 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