

Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)



NEW QUESTION 1

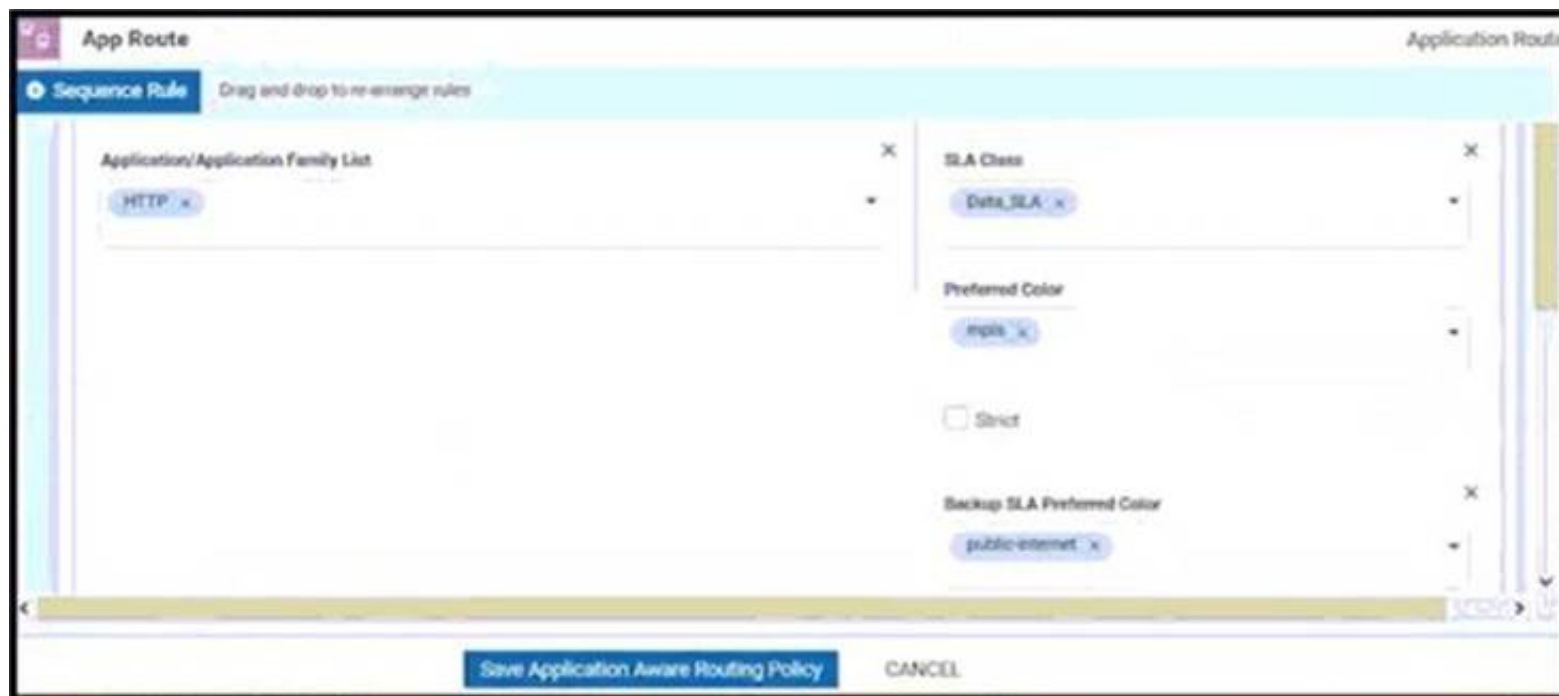
An engineer must improve video quality by limiting HTTP traffic to the Internet without any failover. Which configuration in vManage achieves this goal?

A)

B)

C)

D)



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

Answer: C

NEW QUESTION 2

Which policy blocks TLOCs from remotes and allows TLOCs from the data center to form hub-and-spoke peering?

- A. localized control policy
- B. localized data policy
- C. centralized data policy
- D. centralized control policy

Answer: C

Explanation:

Centralized Policy

Centralized policy refers to policy provisioned on Cisco vSmart Controllers, which are the centralized controllers in the Cisco SD-WAN overlay network. Centralized policy comprises two components:

- Control policy, which affects the overlay network-wide routing of traffic
- Data policy, which affects the data traffic flow throughout the VPN segments in the network

NEW QUESTION 3

What is an advantage of using auto mode versus static mode of power allocation when an access point is connected to a PoE switch port?

- A. It detects the device is a powered device
- B. All four pairs of the cable are used
- C. Power policing is enabled at the same time
- D. The default level is used for the access point

Answer: D

Explanation:

Use the auto setting on any PoE port. The auto mode is the default setting.

https://www.cisco.com/en/US/docs/switches/lan/catalyst3850/software/release/3.2_0_se/multibook/configuration

NEW QUESTION 4

Which logs verify when a device was upgraded?

- A. Audit
- B. Email
- C. ACL
- D. SNMP

Answer: A

NEW QUESTION 5

Which platforms are managed by a single vManage dashboard?

- A. ISR4351, ASR1002HX, vEdge2000, vEdge Cloud
B. ISR4321, ASR1001, Nexus, ENCS
C. ISR4321, ASR1001, ENCS, ISRv
D. ISR4351, ASR1009, vEdge2000, CSR1000v

Answer: C

NEW QUESTION 6

Which component of the Cisco SD-WAN secure extensible network provides a single pane of glass approach to network monitoring and configuration?

- A. APIC-EM
B. vSmart
C. vManage
D. vBond

Answer: C

Explanation:

Cisco vManage provides a single-pane-of-glass management to manage all controller components and both enterprise and extended enterprise WAN edge devices. The comprehensive vManage GUI has dashboard, monitor, configuration, tools, maintenance, administration, and analytics as the top-level menus.

NEW QUESTION 7

What is the default value (in milliseconds) set for the poll interval in the BFD basic configuration?

- A. 300,000
B. 600,000
C. 900,000
D. 1,200,000

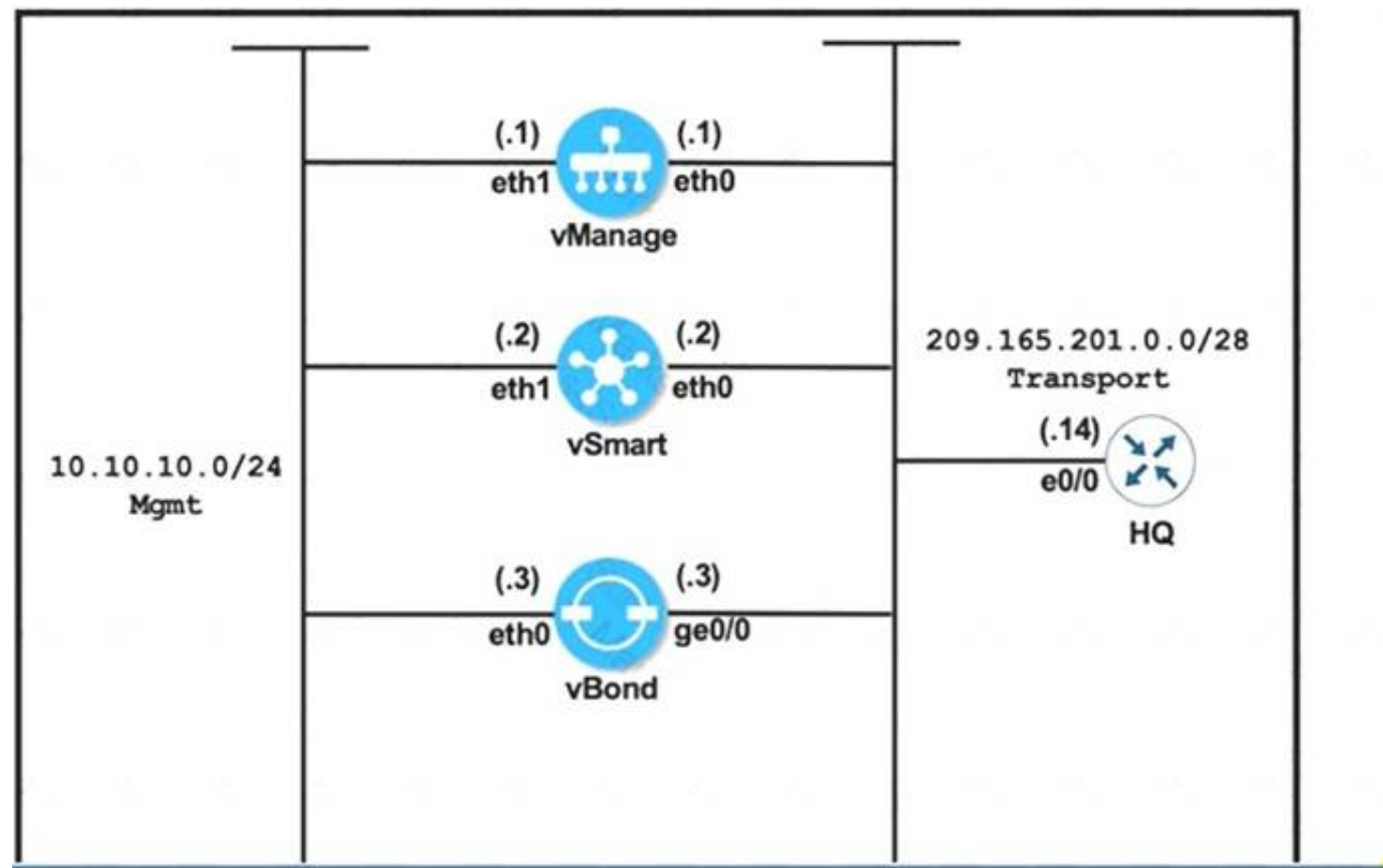
Answer: B

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Configuration/Templates/B

NEW QUESTION 8

Refer to the exhibit



vManage	vBond
<pre> system system-ip 10.10.10.101 host-name vManage site-id 1 clock timezone Europe/London vbond 209.165.201.3 organization-name Cisco.com ! vpn 0 interface eth0 ip address 209.165.201.1/28 no shut tunnel-interface allow-service all ip route 0.0.0.0/0 209.165.201.14 ! commit </pre>	<pre> system system-ip 10.10.10.103 host-name vBond site-id 1 clock timezone Europe/London vbond 209.165.201.3 local organization-name viptela.com ! vpn 0 interface ge0/0 ip address 209.165.201.3/28 no shut tunnel-interface encapsulation ipsec allow-service all ip route 0.0.0.0/0 209.165.201.14 ! commit </pre>

vManage and vBond have an issue establishing a connection with each other Which action resolves the issue?

- A. Reconfigure the system IPs to belong to the same subnet
- B. Change the organization name on both controllers to match viptela.com.
- C. Remove the encapsulation ipsec command under the tunnel interface of vBond
- D. Configure the encapsulation ipsec command under the tunnel interface on vManage

Answer: B

Explanation:

<https://community.cisco.com/t5/sd-wan-and-cloud-networking/encapsulation-ipsec-on-vbond/td-p/4451149> "encapsulation" command under vBond tunnel-interface has no meaning and effect.

NEW QUESTION 9

Which two features does the application firewall provide? (Choose two.)

- A. classification of 1400+ layer 7 applications
- B. blocks traffic by application or application-family
- C. numbered sequences of match-action pairs
- D. classification of 1000+ layer 4 applications
- E. application match parameters

Answer: AB

Explanation:

This application aware firewall feature provides the following benefits:

- Application visibility and granular control
- Classification of 1400+ layer 7 applications
- Allows or blocks traffic by application, category, application-family or application-group

NEW QUESTION 10

Where on vManage does an engineer find the details of control node failure?

- A. Alarms
- B. Events
- C. Audit log
- D. Network

Answer: A

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/vManage_How-Tos/vmanage-howto-book/m-troubleshoot

NEW QUESTION 10

An engineer wants to automate the onboarding process for a WAN Edge router with vManage. Which command will accomplish this?

- A. request vedge-cloud activate chassis-number <chassis-number> serial <serial>
- B. request vedge-cloud activate chassis-number <chassis-number> token <token-number>
- C. request vedge-cloud activate serial <serial> token <token-number>
- D. request vedge-cloud activate chassis-number <chassis-number> organization <organization>

Answer: B

Explanation:

```
vedge#  
vedge# vedge# request vedge-cloud activate chassis-number 19f2059b-5fd1-9027-a665-24c33d223247 token 22ee00b3a0c22d8269725d1cb495b718
```

NEW QUESTION 13

Which destination UDP port is used by WAN Edge router to make a DTLS connection with vBond Orchestrator?

- A. A.-12343B.12345C.12346D.12347

Answer: C

NEW QUESTION 15

Which two image formats are supported for controller codes? (Choose two.)

- A. .nxos
 B. .qcow2
 C. .ova
 D. .bin
 E. Tgz

Answer: BC

NEW QUESTION 17

When a WAN Edge device joins the SD-WAN overlay, which Cisco SD-WAN components orchestrates the connection between the WAN Edge device and a vSmart controller?

- A. vManage
 B. vBond
 C. OMP
 D. APIC-EM

Answer: B

Explanation:

When a vEdge device comes up, how does it automatically discover Cisco vManage and Cisco vSmart Controller and establish connections with them? **It does so with help from Cisco vBond Orchestrator.**

NEW QUESTION 19

What is a description of vManage NMS?

- A. It is accessible only from VPN 512 (the management VPN).
 B. A cluster requires device templates to be created on and attached to the same server
 C. It is a software process on a dedicated WAN Edge router in the network.
 D. A cluster consists of a minimum of two vManage NMSs

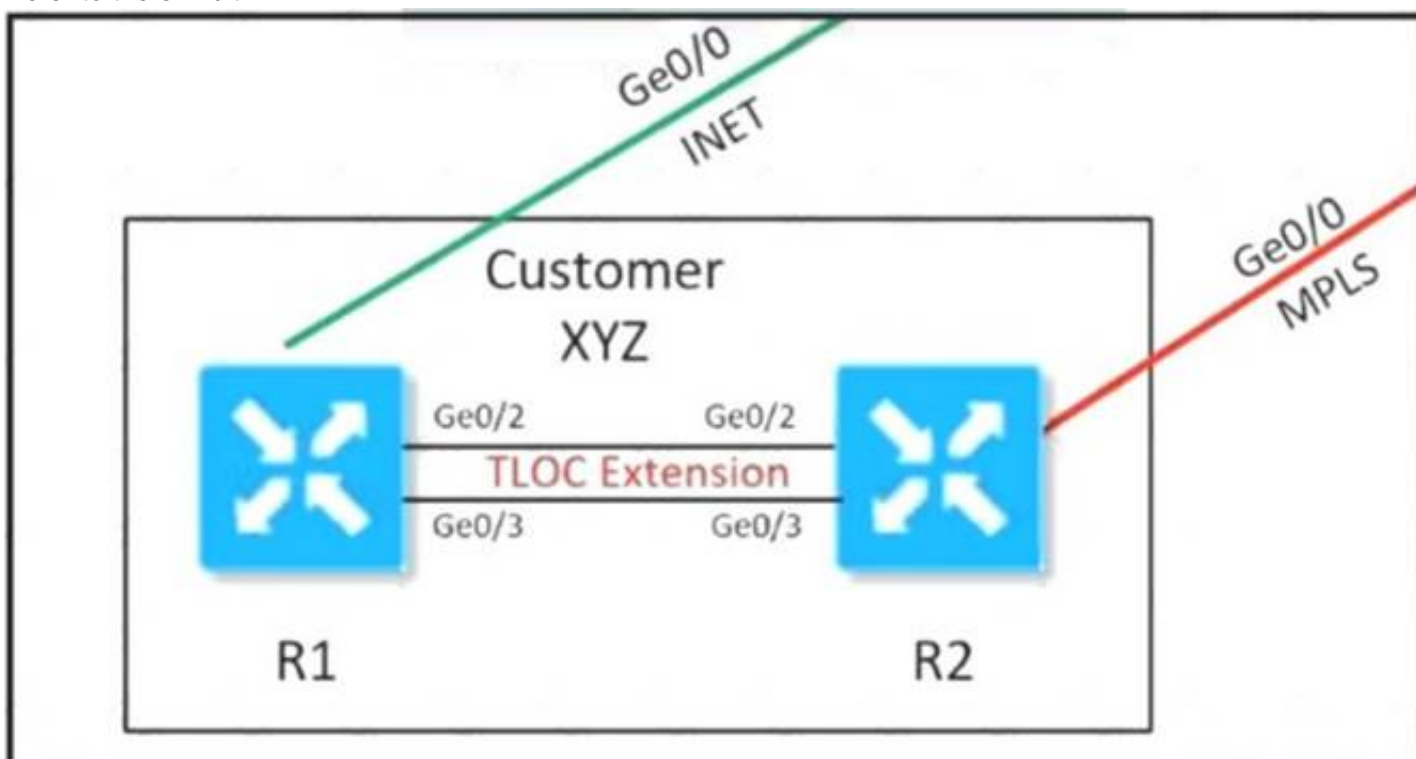
Answer: B

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/optimization-ha/vedge/network-optimization>

NEW QUESTION 20

Refer to the exhibit.



Customer XYZ cannot provision dual connectivity on both of its routers due to budget constraints but wants to use both R1 and R2 interlaces for users behind them for load balancing toward the hub site. Which configuration achieves this objective?

- A.
- ```
R1
interface ge0/2
 ip address 43.43.43.2/30
 tloc-extension ge0/0

interface ge0/3
 ip address 34.34.34.1/30
 tunnel-interface
 color mpls

R2
interface ge0/2
 ip address 43.43.43.1/30
 tunnel-interface
 color public-internet

interface ge0/3
 ip address 34.34.34.2/30
 tloc-extension ge0/0
```
- B.
- ```
R1
interface ge0/2
 ip address 43.43.43.2/30
 tloc-extension ge0/0

interface ge0/3
 ip address 34.34.34.2/30
 tloc-extension ge0/0

R2
interface ge0/2
 ip address 43.43.43.1/30
 tunnel-interface
 color public-internet

interface ge0/3
 ip address 34.34.34.1/30
```
- C.
- ```
R1
interface ge0/2
 ip address 43.43.43.2/30
 tloc-extension ge0/0

interface ge0/3
 ip address 34.34.34.2/30
 tloc-extension ge0/0

R2
interface ge0/2
 ip address 43.43.43.1/30

interface ge0/3
 ip address 34.34.34.1/30
```
- D.
- ```
R1
interface ge0/2
 ip address 43.43.43.2/30
 tloc-extension ge0/0

interface ge0/3
 ip address 34.34.34.1/30
 tunnel-interface
 color mpls

R2
interface ge0/2
 ip address 43.43.43.1/30
 tunnel-interface
 color public-internet

interface ge0/3
 ip address 34.34.34.2/30
 tloc-extension ge0/2
```

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

Answer: A

NEW QUESTION 22

A network administrator is configuring VRRP to avoid a traffic black hole when the transport side of the network is down on the master device. What must be configured to get the fastest failover to standby?

- A. lower timer interval
B. prefix-list tracking
C. higher group ID number
D. OMP tracking

Answer: B

Explanation:

```
vEdge(config-vrrp)# track-prefix-list list-name
```

If all OMP sessions are lost, VRRP failover occurs as described for the track-omp option. In addition, if reachability to all the prefixes in the list is lost, VRRP failover occurs immediately, without waiting for the OMP hold timer to expire, thus minimizing the amount of overlay traffic is dropped while the vEdge routers determine the VRRP master.

NEW QUESTION 27

Which command verifies a policy that has been pushed to the vEdge router?

- A. vEdge# show running-config data policy
- B. vEdge# show policy from-vsmart
- C. vSmart# show running-config policy
- D. vSmart# show running-config apply-policy

Answer: B

NEW QUESTION 31

Drag and drop the components from the left onto the corresponding Cisco NFV infrastructure Building Blocks on the right. Not all options are used.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Cisco NFV Infrastructure Building Blocks

- **Compute:** Cisco Unified Computing System™ (Cisco UCS®) for a carrier class and reliable compute infrastructure.
- **Storage:** Cisco UCS hardware and CEPH provide reliable storage. The user has the options to introduce additional storage as capacity needs grow.
- **Networking:** Cisco Nexus® 9000 series hardware provides high throughput, low latency, and rich feature sets.
- **Virtualized Infrastructure:** Fully integrated Red Hat Enterprise Linux and Red Hat OpenStack Platform runs on top of Cisco Unified Computing System™ (Cisco UCS®). It is open source yet hardened and mature.
- **Management:** Cisco UCS Director functions as a unified management tool across multiple virtual environments. SDN controller is optional.

NEW QUESTION 35

An engineer is adding a tenant with location ID 399533345 in vManage. What is the maximum number of alphanumeric characters that is accepted in the tenant name filed?

- A. 64
- B. 128
- C. 256
- D. 8

Answer: B

Explanation:

In the Add Tenant window:

- a. Enter a name for the tenant. It can be up to 128 characters and can contain only alphanumeric characters.

NEW QUESTION 36

Which policy configures an application-aware routing policy under Configuration > Policies?

- A. Localized policy
- B. Centralized policy
- C. Data policy
- D. Control policy

Answer: B

NEW QUESTION 40

Which on-the-box security feature supported by the Cisco ISR 4451 SD-WAN device and not on vEdge?

- A. Cloud Express service
- B. Enterprise Firewall with Application Awareness
- C. reverse proxy
- D. IPsec/GRE cloud proxy

Answer: B

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/software/one-wan-subscription/guide-c07-740642.html#Step2>

NEW QUESTION 43

A bank is looking for improved customer experience for applications and reduce overhead related to compliance and security. Which key feature or features of the Cisco SD-WAN solution will help the bank to achieve their goals?

- A. Integration with PaaS providers to offer the best possible application experience
- B. QoS including application prioritization and meeting critical applications SLA for selecting optimal path.
- C. implementation of a modern age core banking system
- D. implementation of BGP across the enterprise routing for selecting optimal path

Answer: B

Explanation:

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cisco-sd-wan-ebook->

NEW QUESTION 47

When VPNs are grouped to create destination zone in Zone-Based Firewall, how many zones can a single VPN be part of?

- A. two
- B. four
- C. one
- D. three

Answer: C

NEW QUESTION 49

What are the two protocols redistributed into OMP? (Choose two.)

- A. OSPF
- B. RIP
- C. LDP
- D. RSVP
- E. EIGRP

Answer: AE

Explanation:

Supported Protocols

This section explains the protocols supported for unicast routing.

- OMP Routing Protocol
- BGP and OSPF Routing Protocols
- OSPFv3
- EIGRP

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/routing/ios-xe-17/routing-book-xe/m-unicas>

NEW QUESTION 51

In which device state does the WAN edge router create control connections, but data tunnels are not created?

- A. valid
- B. backup
- C. active
- D. staging

Answer: D

Explanation:

Staging – In this state, the WAN Edge device establishes secure control plane connections to the SD-WAN controllers (vBond, vManage, and vSmart) only. It is important to note that no data plane connections are established with other WAN Edge devices in the overlay network.

NEW QUESTION 56

An enterprise has several sites with multiple VPNs that are isolated from each other. A new requirement came where users in VPN 73 must be able to talk to users in VPN 50. Which configuration meets this requirement?

- ☒ policy
control-policy Route_Leaking
sequence 1
match route
vpn-list VPN_73
prefix-list _AnyIpv4PrefixList
action accept
export-to vpn-list VPN_50
sequence 11
match route
vpn-list VPN_50
prefix-list _AnyIpv4PrefixList
action accept
export-to vpn-list VPN_73
default-action accept
- ☐ policy
control-policy Route_Leaking
sequence 1
match route
VPN_73
prefix-list _AnyIpv4PrefixList
export-to VPN_50
sequence 11
match route
VPN_50
prefix-list _AnyIpv4PrefixList
export-to VPN_73
default-action accept
- ☐ policy
control-policy Route_Leaking
sequence 1
match route
VPN_ALL
prefix-list _AnyIpv4PrefixList
action accept
export-to VPN_ALL
- ☐ policy
control-policy Route_Leaking
sequence 1
match route
VPN_50 VPN_73
prefix-list _AnyIpv4PrefixList
action accept
export-to VPN_73 VPN_50

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

Answer: A

NEW QUESTION 57

Drag and drop the BFD parameters from the left onto the BFD configurations on the right.

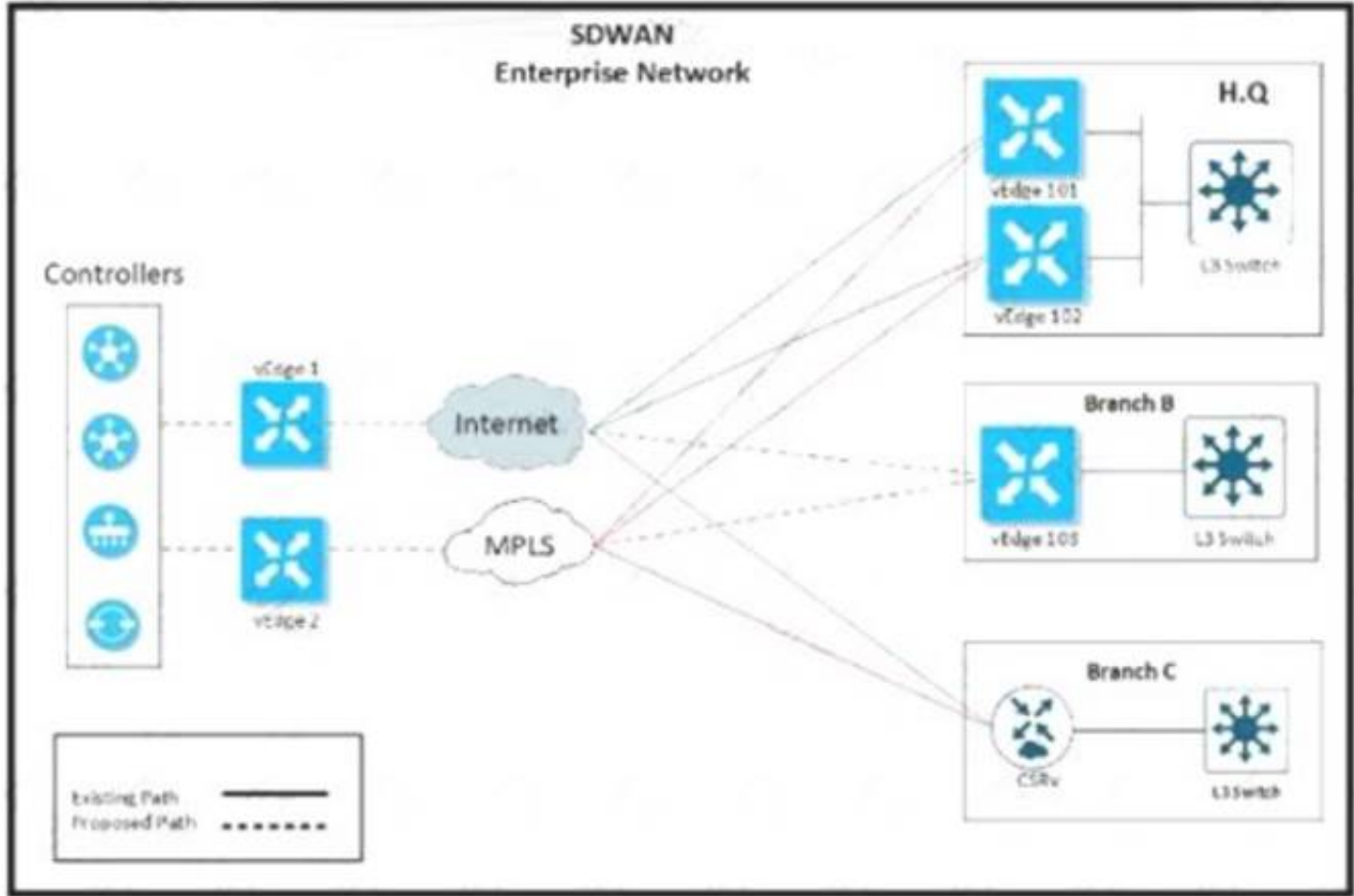
poll interval	BFD for Transport Tunnel
color	
hello interval	
PMTU discovery	BFD for Application-Aware Routing
multiplier	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Configuration/Templates/B

NEW QUESTION 59
Refer to the exhibit.



The network team must configure branch B WAN Edge device 103 to establish dynamic full-mesh IPsec tunnels between all colors with branches over MPLS and Internet circuits. The branch ts configured with:

```
viptela-system:system
device-model vedge-cloud
host-nam vEdge-Cloud
location CA
system-ip 10.4.4.4
domain-id 1
site-id 1
organization-name ABC
clock timezone US/Newyork
vbond 10.10.0.1 port 12346
```

```
omp
no shutdown
graceful-restart

vpn 512
interface eth0
ip address 10.0.0.1/24
no shutdown
```

Which configuration meets the requirement?

A)

```
vpn 0
interface ge0/0
description Internet Circuit
ip address 209.165.200.225/30
tunnel-interface
encapsulation ipsec
color public-internet
allow-service all

interface ge0/1
description MPLS
ip address 10.10.0.101/30
tunnel-interface
encapsulation ipsec
color mpls
allow-service all
```

B)

```
vpn 0
interface ge0/0
description Internet Circuit
ip address 209.165.200.225/30
tunnel-interface
encapsulation ipsec
color public-internet restrict
allow-service all

interface ge0/1
description MPLS
ip address 10.10.0.101/30
tunnel-interface
encapsulation ipsec
color mpls restrict
allow-service all
```

C)

```
vpn 0
interface ge0/0
description Internet Circuit
ip address 209.165.200.225/30
tunnel-interface
encapsulation ipsec
color public-internet restrict
allow-service all

interface ge0/1
description MPLS
ip address 10.10.0.101/30
tunnel-interface
encapsulation ipsec
color mpls restrict
allow-service all
```

D)

```
vpn 0
interface ge0/0
description Internet Circuit
ip address 209.165.200.225/30
tunnel-interface
encapsulation ipsec
color public-internet
allow-service all

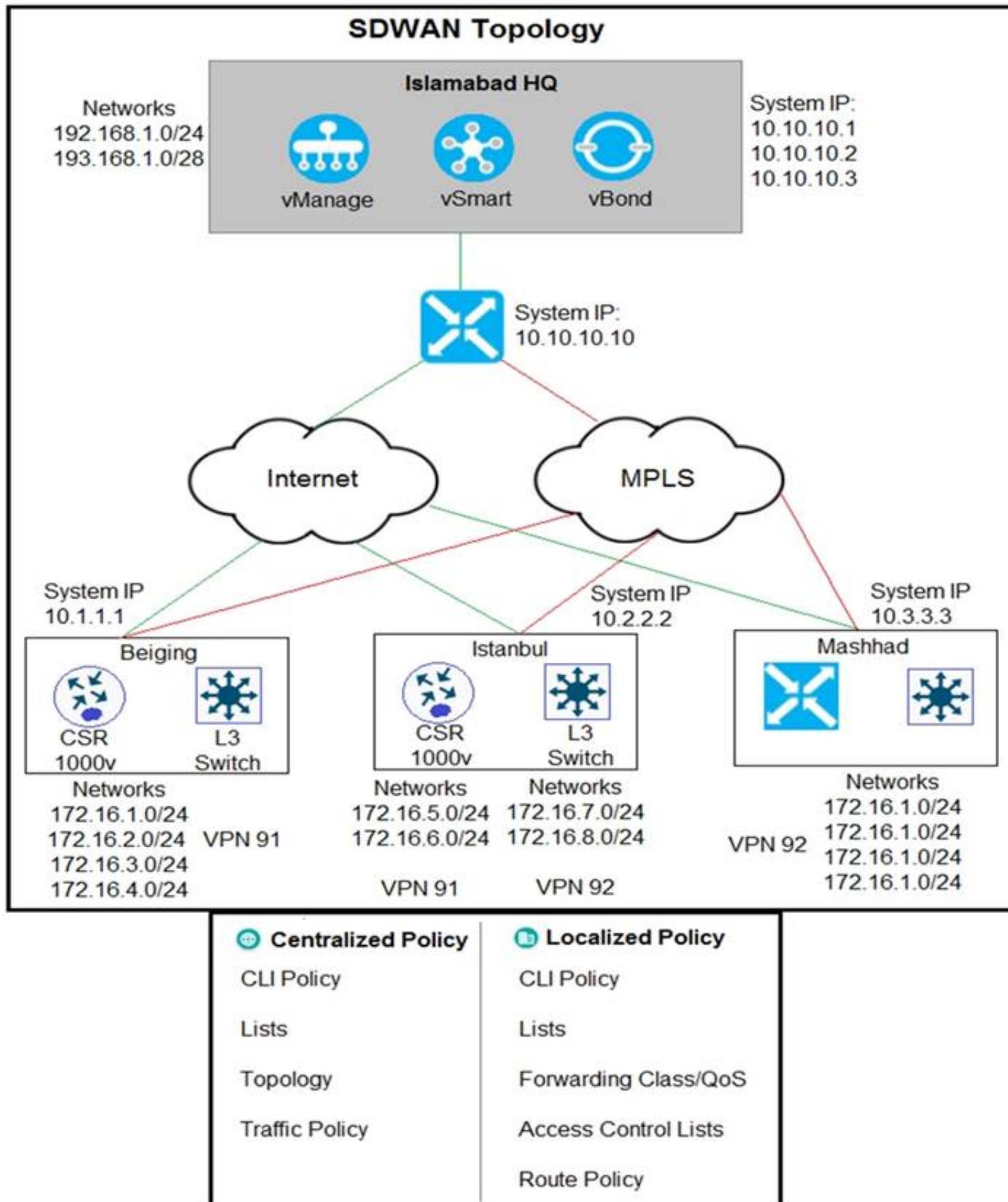
vpn 1
interface ge0/1
description MPLS
ip address 10.10.0.101/30
tunnel-interface
encapsulation ipsec
color mpls
```

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

Answer: A

NEW QUESTION 64

Refer to the exhibit



The Cisco SD-WAN network is configured with a default full-mesh topology. Islamabad HQ and Islamabad WAN Edges must be used as the hub sites. Hub sites MPLS TLOC must be preferred when forwarding FTP traffic based on a configured SLA class list. Which policy configuration does the network engineer use to call the SLA class and set the preferred color to MPLS?

- A. Localized Policy, Route Policy
- B. Centralized Policy, Traffic Policy
- C. Localized Policy, Forwarding Class
- D. Centralized Policy Topology

Answer: B

NEW QUESTION 67

Which policy is configured to ensure that a voice packet is always sent on the link with less than a 50 msec delay?

- A. localized data policy
- B. localized control policy
- C. centralized data policy
- D. centralized control policy

Answer: C

NEW QUESTION 71

Two sites have one WAN Edge each WAN Edge has two public TLOCs with no restriction configured. There is full reachability between the TLOCs. How many data tunnels are formed on each Edge router?

- A. 2
- B. 8
- C. 6
- D. 4

Answer: D

NEW QUESTION 72

Which two mechanisms are used to guarantee the integrity of data packets in the Cisco SD-WAN architecture data plane? (Choose two)

- A. transport locations
- B. authentication headers
- C. certificates
- D. TPM chip
- E. encapsulation security payload

Answer: BE

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/01Security_Ov

NEW QUESTION 77

An engineer is configuring a centralized policy to influence network route advertisement. Which controller delivers this policy to the fabric?

- A. vSmart
- B. vManage
- C. WAN Edge
- D. vBond

Answer: A

Explanation:

vSmart controllers are the centralized brain of the solution; they implement policies and connectivity between SD-WAN branches. The centralized policy engine in Cisco vSmart controllers provides policy constructs to manipulate routing information, access control, segmentation, extranets, and service chaining.

NEW QUESTION 81

Which two criteria are supported to filter traffic on a Cisco Umbrella Cloud-delivered firewall? (Choose two)

- A. tunnels
- B. site ID
- C. URL
- D. geolocation
- E. protocol

Answer: AE

Explanation:

<https://docs.umbrella.com/umbrella-user-guide/docs/add-a-firewall-policy>

NEW QUESTION 82

Which TCP Optimization feature is used by WAN Edge to prevent unnecessary retransmissions and large initial TCP window sizes to maximize throughput and achieve a better quality?

- A. SEQ
- B. SYN
- C. RTT
- D. SACK

Answer: D

Explanation:

TCP Optimization

The Cisco SD-WAN TCP Optimization feature uses TCP Selective Acknowledgement (SACK) to prevent unnecessary retransmissions and large initial TCP window sizes in order to maximize throughput and achieve a better quality of experience.

NEW QUESTION 85

An enterprise needs DIA on some of its branches with a common location ID: A041:B70C: D78E::18 Which WAN Edge configuration meets the requirement?

A)

```
vpn 1
interface ge0/1
ip address 172.16.0.1/24
vpn 512
ip route 0.0.0.0/0 vpn 0
```

B)

```
vpn 1
ip route 0.0.0.0/0 vpn 1
interface ge0/0
ip address 172.16.0.1/24
nat
```

C)

```
vpn 0
interface ge0/0
ip address 172.16.0.1/24
nat
vpn 1
ip route 0.0.0.0/0 vpn 0
```

D)

```
vpn 0
ip route 0.0.0.0/0 vpn 0
vpn 1
interface ge0/1
ip address 172.16.0.1/24
nat
```

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

Answer: C

NEW QUESTION 88

Refer to the exhibit.

policy	!
lists	!
!	default-action accept
tloc-list dc-preference-east	!
tloc 100.100.100.100 color mpls	control-policy adv-dc-preference-east
encap ipsec preference 200	sequence 10
tloc 101.101.101.101 color mpls	match route
encap ipsec preference 400	site-list dc-sites
!	!
site-list sites-region-west	action accept
site-id 1-20	set
!	tloc-list dc-preference-east
site-list sites-region-east	!
site-id 21-40	!
!	!
site-list dc-sites	default-action accept
site-id 100-101	!
	!
control-policy adv-dc-preference-west	apply-policy
sequence 10	site-list sites-region-west
match route	control-policy adv-dc-preference-west
site-list dc-sites	out
!	!
action accept	site-list sites-region-east
set	control-policy adv-dc-preference-east
tloc-list dc-preference-east	out
!	!
	!

A customer wants to implement primary and secondary Cisco SD-WAN overlay routing for prefixes that are advertised for both data centers. The east data center (TLOC 101.101.101.101) is primary for east sites, and the west data center (TLOC 100.100.100.100) is primary for west sites. Which configuration change achieves this objective?

A.

```
lists
  tloc-list dc-preference-west
  tloc 100.100.100.100 color mpis encap ipsec preference 400
  tloc 101.101.101.101 color mpis encap ipsec preference 200

control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

B.

```
lists
  tloc-list dc-preference-west
  tloc 100.100.100.100 color mpis encap ipsec preference 200
  tloc 101.101.101.101 color mpis encap ipsec preference 400

control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

C.

```
tloc-list dc-preference-east
tloc 100.100.100.100 color mpis encap ipsec preference 400
tloc 101.101.101.101 color mpis encap ipsec preference 200
```

D.

```
control-policy adv-dc-preference-west
sequence 10
match route
  site-list dc-sites
  !
action accept
set
  tloc-list dc-preference-west
  !
!
default-action accept
```

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

Answer: A

NEW QUESTION 91

Which component of the Cisco SD-WAN control plane architecture facilitates the storage of certificates and configurations for network components?

- A. vSmart
- B. vBond
- C. WAN Edge
- D. vManage

Answer: D

NEW QUESTION 96

A customer must upgrade the cisco SD-WAN devices and controllers from version 19.2 to version 20.3. The devices include WAN Edge cloud, vManage, vSmart, and vBond. Which types of image types of image files are needed for this upgrade?

- A. one file for vManage and one file for all other devices with extension tar.gz
- B. one file for vManage, one for vSmart and one for vBond + WAN Edge Cloud with extension .bin
- C. one file for vManaga, one for vSmart and one for vBond + WAN Edge Cloud with extension tar.gz
- D. one file for vManaga and one file for all other devices with extension .bin

Answer: C

Explanation:

<https://software.cisco.com/download/home/286320995/type/286321394/release/20.3.3.1>

NEW QUESTION 101

What are the two advantages of deploying cloud-based Cisco SD-WAN controllers? (Choose two.)

- A. centralized control and data plane
- B. distributed authentication policies

- C. management of SLA
- D. infrastructure as a service
- E. centralized raid storage of data

Answer: CD

NEW QUESTION 102

Drag and drop the Cisco SD-WAN components from the left onto their functions on the right.

vBond Orchestrator	IPsec key reflection and rekeying
vManage	first point of authentication
vSmart Controller	passes data plane traffic
WAN Edge Router	used to build configuration and policies

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

vBond Orchestrator	vSmart Controller
vManage	vBond Orchestrator
vSmart Controller	WAN Edge Router
WAN Edge Router	vManage

NEW QUESTION 107

In the Cisco SD_WAN solution, vSmart controller is responsible for which two actions? (Choose two.)

- A. Distribute crypto key information among vEdge routers
- B. Configure and monitor vEdge routers.
- C. Authenticate and authorize vEdge routers.
- D. Distribute the IP address from DHCP server to vEdge routers.
- E. Distribute route and policy information via OMP.

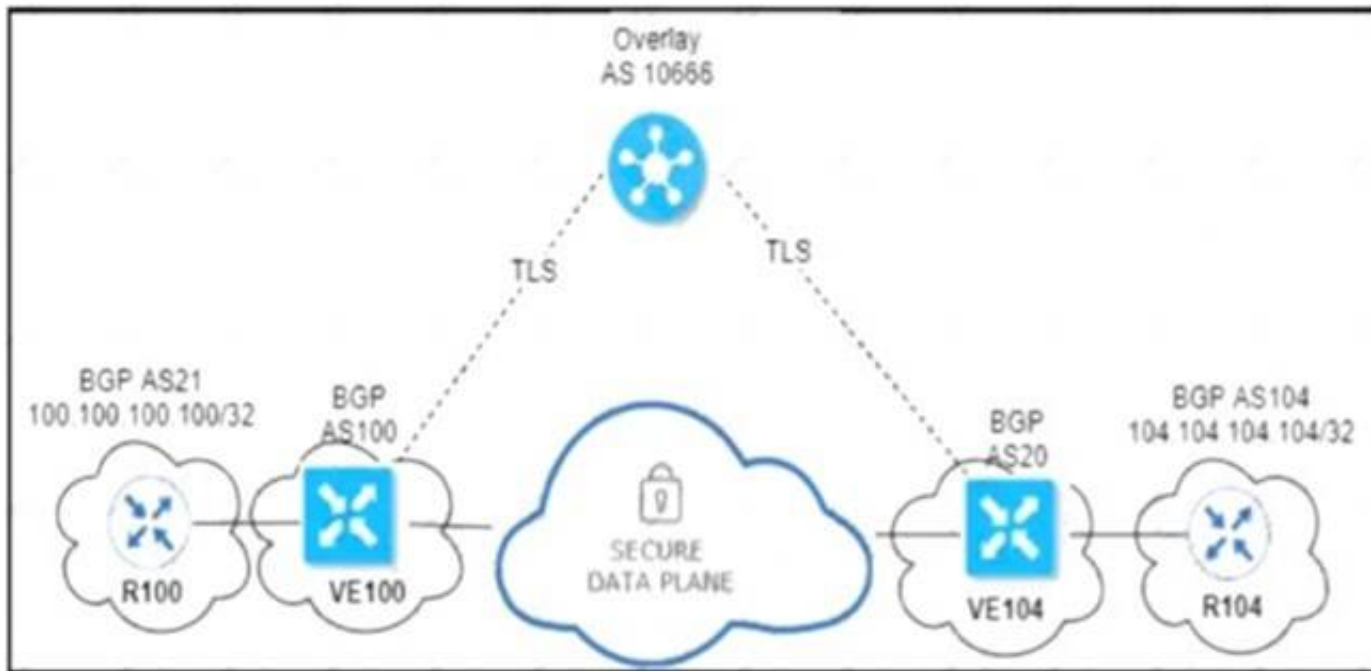
Answer: AE

Explanation:

vSmart controller - This software-based component is responsible for the centralized control plane of the SD-WAN network. It maintains a secure connection to each WAN Edge router and distributes routes and policy information via the Overlay Management Protocol (OMP), acting as a route reflector. It also orchestrates the secure data plane connectivity between the WAN Edge routers by reflecting crypto key information originating from WAN Edge routers, allowing for a very scalable, IKE-less architecture.

NEW QUESTION 108

Refer to the exhibit.



An engineer configured OMP with an overlay-as of 10666. What is the AS-PATH for prefix 104.104.104.104/32 on R100?

- A. 100 10666
- B. 100 20 104
- C. 100 10666 20 104
- D. 100 10666 104

Answer: A

NEW QUESTION 112

An engineer is configuring a list that matches all IP prefixes with lengths from /1 to /16 in a centralized control policy. Which list accomplishes this task?

- A. 0.0.0.0/1 le 16
- B. 0.0.0.0/0 ge 1
- C. 0.0.0.0/0 le 16
- D. 0.0.0.0/16 ge 1

Answer: A

NEW QUESTION 117

Which Cisco SD-WAN WAN Edge platform supports LTE and Wi-Fi?

- A. vEdge2000
- B. ASR1001
- C. CSR 1000v
- D. ISR 1101

Answer: D

NEW QUESTION 120

Refer to the exhibit.

```
vpn 0
interface ge0/0
ip address 10.1.15.15/24
tunnel-interface
color lte
allow-service dhcp
allow-service dns
allow-service icmp

no allow-service sshd
no allow-service ntp
no allow-service stun
!
no shutdown
shaping-rate
```

Which shaping-rate does the engineer use to shape traffic at 9 Mbps?

- A. 9
- B. 9000
- C. 90000
- D. 9000000

Answer: B

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/config-cmd.html#wp421715213>

NEW QUESTION 122

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

VPN S12	routing policy
VPN 0	transport VPN
route-map	management VPN
organization name	service VPN
VPN 10	system information

- A. Mastered
- B. Not Mastered

Answer: A


Explanation:

VPN S12	route-map
VPN 0	VPN 0
route-map	VPN S12
organization name	VPN 10
VPN 10	organization name

NEW QUESTION 125

Refer to the exhibit.


Address Family




☒ On


☐ Off

Address Family




ipv4-unicast 

Maximum Number of Prefixes




Route Policy In



☐ On

☒ Off


Route Policy Out



☒ On

☐ Off

Policy Name



eBGP_Community_Policy

The engineer must assign community tags to 3 of its 74 critical server networks as soon as that are advertised to BGP peers. These server networks must not be advertised outside AS. Which configuration fulfill this requirement?
A)

```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 local-as
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

B)

```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-export
default-action accept
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

C)

```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 local-as
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

D)

```
policy
route-policy eBGP_Community_Polic
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-export
default-action accept
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

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

Answer: D

NEW QUESTION 126

What is the behaviour of vBond orchestrator?

- A. It maintains vSmart and WAN Edge routers secure connectivity state
- B. it builds permanent connections with vSmart controllers
- C. it updates vSmart of WAN Edge routers behind NAT devices using OMP.
- D. It builds permanent connections with WAN Edge routers

Answer: A

NEW QUESTION 130

Which component of the Cisco SD-WAN control plane architecture should be located in a public Internet address space and facilitates NAT-traversal?

- A. vBond
- B. WAN Edge
- C. vSmart
- D. vManage

Answer: A

NEW QUESTION 133

A network administrator is configuring a tunnel interface on a branch Cisco IOS XE router to run TLOC extensions. Which configuration will extend a TLOC over a GRE tunnel to another router in the branch?

- ☒ sdwan
 interface g0/0
 extended-interface
 tloc-extension-gre-from 10.1.1.1
- ☐ sdwan
 interface g0/0
 gre-interface
 tloc-extension-gre-to 10.1.1.1
- ☐ sdwan
 interface g0/0
 tunnel-interface
 tloc-extension-gre-to 10.1.1.1
- ☒ sdwan
 interface g0/0
 tloc-interface
 tloc-extension-gre-from 10.1.1.1

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

Answer: C

Explanation:

Configure a tunnel interface over which to run TLOC extensions (on IOS XE routers only). TLOC extensions allow you to extend a TLOC, over a GRE tunnel, to another router in the branch.

Command Hierarchy

```
sdwan
  interface interface-name
    tunnel-interface
    tloc-extension-gre-to extended-interface-ip-address
```

NEW QUESTION 134

A network administrator is configuring an application-aware firewall between inside zones to an outside zone on a WAN edge router using vManage GUI. What kind of Inspection is performed when the "inspect" action is used?

- A. stateful inspection for TCP and UDP
- B. stateful inspection for TCP and stateless inspection of UDP
- C. IPS inspection for TCP and Layer 4 inspection for UDP
- D. Layer 7 inspection for TCP and Layer 4 inspection for UDP

Answer: A

Explanation:

Cisco's Enterprise Firewall with Application Awareness uses a flexible and easily understood zone-based model for traffic inspection, compared to the older interface-based model.

A firewall policy is a type of localized security policy that allows **stateful inspection** of TCP, UDP, and ICMP data traffic flows.

NEW QUESTION 136

Refer to the exhibit.

#Branch1-Edge1	#Branch1-Edge2
vpn 0	vpn 0
!	...
interface ge0/1	interface ge0/2
ip address	no shutdown
172.17.113.241/28	!
tunnel-interface	interface ge0/2.704
encapsulation ipsec	ip address 10.113.4.1/30
color mpls restrict	tunnel-interface
!	encapsulation ipsec
no shutdown	color mpls restrict
!	mtu 1496
interface ge0/2.704	no shutdown
ip address 10.113.4.2/30	!
tloc-extension ge0/2	ip route 0.0.0.0/0 10.113.4.2

Which configuration change is needed to configure the tloc-extension on Branch1-Edge1?

- A. interface ge0/2.704
ip address 10.113.4.1/30
tunnel-interface
encapsulation ipsec
color mpls restrict
no shutdown
- B. interface ge0/2.704
ip address 10.113.4.2/30
mtu 1496
tloc-extension ge0/1
- C. interface ge0/2.704
ip address 10.113.4.2/30
mtu 1496
tloc-extension ge0/2
- D. interface ge0/2.704
ip address 10.113.4.1/30
tunnel-interface
encapsulation ipsec
color mpls restrict
mtu 1496
tloc-extension ge0/2
no shutdown

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

Answer: B

NEW QUESTION 139

Which port is used for vBond under controller certificates if no alternate port is configured?

- A. 12345
- B. 12347
- C. 12346
- D. 12344

Answer: C

Explanation:

vSmart and vManage are normally installed behind NAT device, so port hopping is not needed. vBond always uses to other Viptela devices using port 12346 and they never use port hopping.

NEW QUESTION 143

How does the replicator role function in cisco SD-WAN?

- A. WAN Edge devices advertise the rendezvous point to all the receivers through the underlay network.
- B. vSmart Controllers advertise the rendezvous point to all the receivers through the overlay network.
- C. WAN Edge devices advertise the rendezvous point to all receivers through the overlay network.
- D. vSmart Controllers advertise the rendezvous point to all the receivers through the underlay network.

Answer: B

Explanation:

Replicators

For efficient use of WAN bandwidth, strategic Cisco SD-WAN routers can be deployed and configured as replicators throughout the overlay network. Replicators mitigate the requirement for a Cisco SD-WAN router with local sources or the PIM-RP to replicate a multicast stream once for each receiver. As discussed above, replicators advertise themselves, using OMP multicast-autodiscover routes, to the Cisco vSmart Controllers in the overlay network. The controllers then forward the replicator location information to the PIM-enabled Cisco IOS XE SD-WAN routers that are in the same VPN as the replicator.

NEW QUESTION 147

A network administrator is tasked to make sure that an OMP peer session is closed after missing three consecutive keepalive messages in 3 minutes. Additionally, route updates must be sent every minute. If a WAN Edge router becomes unavailable, the peer must use last known information to forward packets for 12 hours. Which set of configuration commands accomplishes this task?

- ☒ `omp
timers
advertisment-interval 60
holdtime 180
graceful-restart-timer 43200`
- ☐ `omp
timers
advertisment-interval 1
holdtime 180
graceful-restart-timer 43200`
- ☐ `omp
timers
advertisment-interval 1
holdtime 180
graceful-restart-timer 720`
- ☐ `omp
timers
advertisment-interval 60
holdtime 60
graceful-restart-timer 720`

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

Answer: A

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.2/Configuration/Templates/O

NEW QUESTION 148

A network administrator is configuring Qos on a vEdge 5000 router and needs to enable it on the transport side interface. Which policy setting must be selected to accomplish this goal?

- A. Cloud QoS Service side
- B. Cloud QoS
- C. NetFlow
- D. Application

Answer: B

Explanation:

9. Since the DC routers are vEdge 5000s, select the **Cloud QoS** checkbox to enable QoS on the transport side.

NEW QUESTION 150

Refer to the exhibit.

```
LAB-ROUTER#show ip route vrf 100
Gateway of last resort is 10.1.9.2 to network 0.0.0.0

m*   0.0.0.0/0 [251/0] via 10.1.9.2, 06:10:53
      [251/0] via 10.1.9.3, 06:10:53
O     10.80.6.0/24
      [110/300] via 172.19.75.78, 20:35:33, GigabitEthernet0/0/2.10
      [110/300] via 172.19.75.66, 1w0d, GigabitEthernet0/0/1.11
O     10.80.56.0/24
      [110/300] via 172.19.75.78, 20:35:33, GigabitEthernet0/0/2.10
      [110/300] via 172.19.75.66, 1w0d, GigabitEthernet0/0/1.11
```

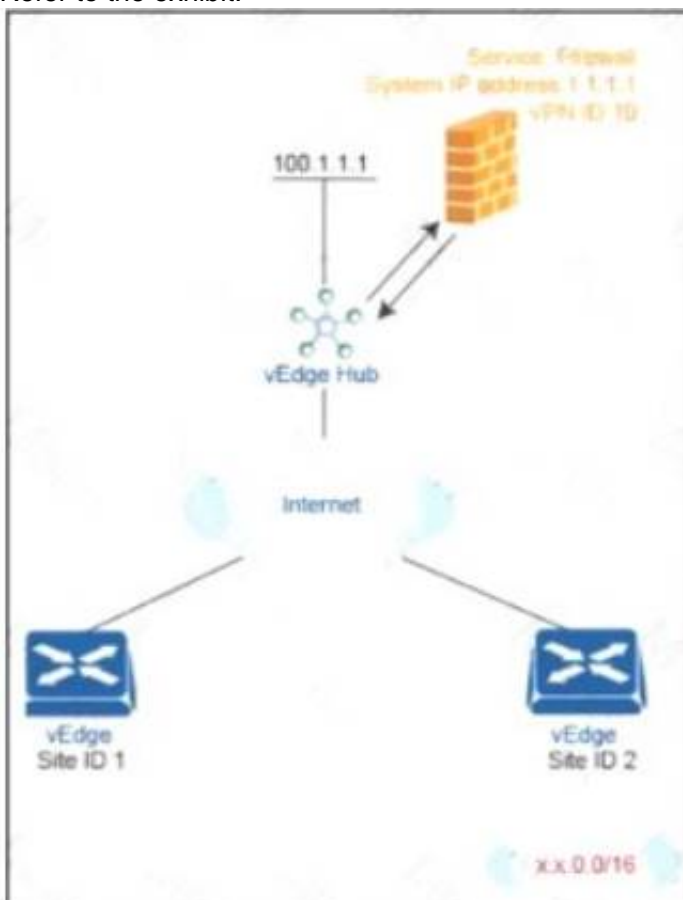
The network administrator has configured a centralized topology policy that results in the displayed routing table at a branch office. Which two configurations are verified by the output? [Choose two.]

- A. The routing table is for the transport VPN.
- B. The default route is learned via OMP.
- C. This routing table is from a cEdge router.
- D. The default route is configured locally.
- E. The configured policy is adding a route tag of 300 to learned routes.

Answer: BC

NEW QUESTION 155

Refer to the exhibit.



An engineer is configuring service chaining. Which set of configurations is required for all traffic from Site ID 1 going toward Site ID 2 to get filtered through the firewall on the hub site?

- A)
- ```
vpn 20
service FW address 1.1.1.1
policy
lists
site-list firewall-sites
site-id 1
control-policy firewall-service
sequence 10
match route
site-id 2
action accept
set service FW vpn 20
default-action accept
apply-policy
site-list firewall-sites control-policy firewall-service out
```

B)



```

vpn 10
 service FW address 1.1.1.1
 policy
 lists
 site-list firewall-sites
 site-id 1
 control-policy firewall-service
 sequence 10
 match route
 site-id 2
 action accept
 set service FW vpn 10
 default-action accept
 apply-policy
 site-list firewall-sites control-policy firewall-service out

```

C)

```

vpn 10
 service FW address 1.1.1.1
 policy
 lists
 site-list firewall-sites
 site-id 1
 control-policy firewall-service
 sequence 10
 match route
 site-id 2
 action accept
 set service FW vpn 20
 default-action accept
 apply-policy
 site-list firewall-sites control-policy firewall-service out

```

D)

```

vpn 10
 service FW address 1.1.1.2
 policy
 lists
 site-list firewall-sites
 site-id 1
 control-policy firewall-service
 sequence 10
 match route
 site-id 2
 action accept
 set service FW vpn 10
 default-action accept
 apply-policy
 site-list firewall-sites control-policy firewall-service out

```

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

**Answer: B**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/service-chainin>

#### NEW QUESTION 156

Which two services are critical for zero touch provisioning on-boarding? (Choose two)

- A. SNMP
- B. DNS
- C. DHCP
- D. AAA
- E. EMAIL

**Answer: BC**

#### NEW QUESTION 160

An engineer wants to change the configuration of the certificate authorization mode from manual to automated. Which GUI selection will accomplish this?

- A. Maintenance > Security
- B. Configuration > Certificates
- C. Administration > Settings
- D. Tools > Operational Commands

**Answer: C**

**Explanation:**

Runbook to Request and Install Cisco PKI Certificates

1. Verify that you have satisfied the prerequisites and that you have added the Smart Account credentials.
2. Navigate to **Administration ► Settings ► Controller Certificate Authorization** and press Edit.
3. Select the **radio button Cisco Automated (Recommended)**.

#### NEW QUESTION 163

An engineer is configuring a WAN Edge router for DIA based on matching QoS parameters. Which two actions accomplish this task? (Choose two.)

- A. Apply a QoS map policy.
- B. Configure a control policy.
- C. Configure a centralized data policy.
- D. Configure NAT on the transport interface.
- E. Apply a data policy on WAN interface.

**Answer:** CD

**Explanation:**

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sdwan-dia-deploy-2020aug.pdf>

**NEW QUESTION 164**

A network administrator is configuring a centralized control policy based on match action pairs for multiple conditions, which order must be configured to prefer Prefix List over TLOC and TLOC over Origin?

- A. highest to lowest sequence number
- B. nonsequential order
- C. deterministic order
- D. lowest to highest sequence number

**Answer:** D

**Explanation:**

A centralized control policy consists of a series of numbered (ordered) sequences of match-action pairs that are evaluated in order, from lowest sequence number to highest sequence number. When a route or TLOC matches the match conditions, the associated action or actions are taken and policy evaluation on that packets stops. Keep this process in mind as you design your policies to ensure that the desired actions are taken on the items subject to policy.

If a route or TLOC matches no parameters in any of the sequences in the policy configure, it is, by default, rejected and discarded.

**NEW QUESTION 168**

Which configuration changes the packet loss priority from low to highly?

A)

```
policy
 policer cnp-traffic
 rate 1000000
 burst 20000
 plp high
```

B)

```
policy
 policer cnp-traffic
 rate 1000000
 burst 20000
 exceed remark
```

C)

```
policy
 policer cnp-traffic
 rate 1000000
 burst 20000
 exceed drop
```

D)

```
policy
 policer cnp-traffic
 rate 1000000
 burst 20000
 exceed high
```

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

**Answer:** B

**Explanation:**

we change the PLP from low to high (configured by the **policer exceed remark** command).

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/qos/vEdge-20-x/qos-book/forwarding-qos.h>

#### NEW QUESTION 173

Which protocol is used for the vManage to connect to the vSmart Controller hosted in Cloud?

- A. PnP Server
- B. ZTP
- C. NETCONF
- D. HTTP

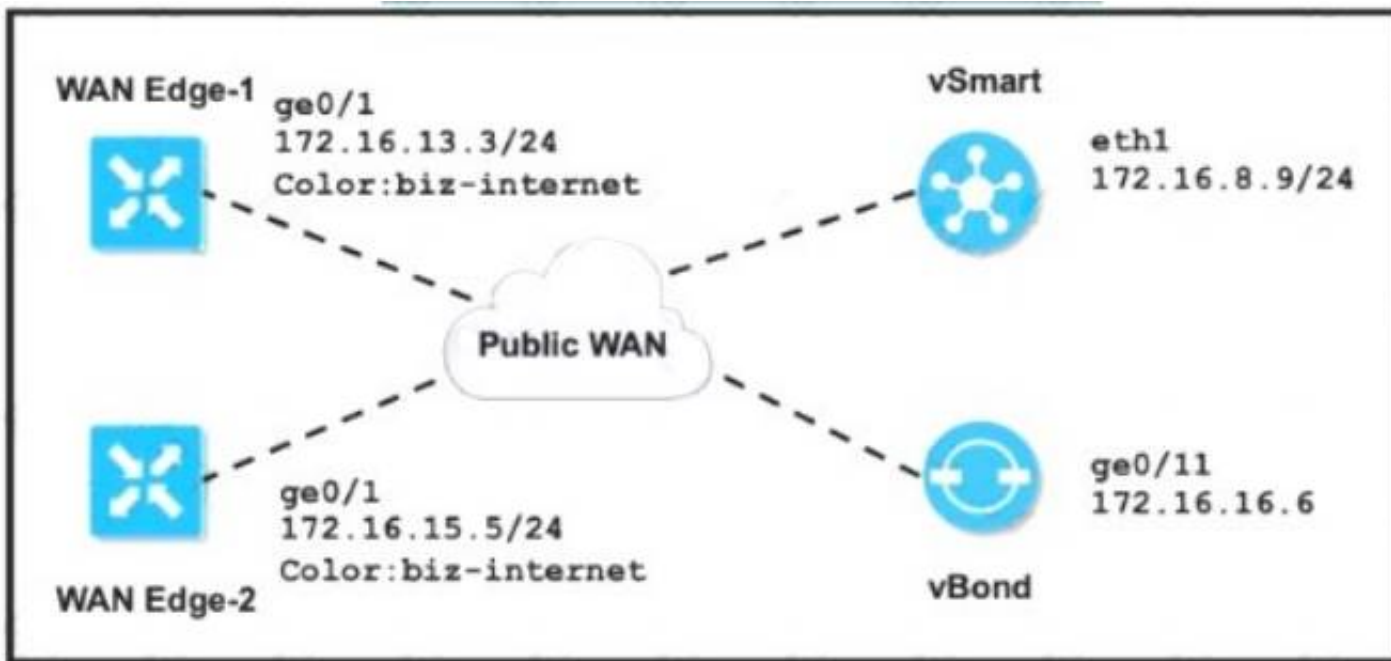
**Answer: C**

**Explanation:**

**Netconf and CLI–Netconf is a standards-based protocol used by Cisco vManage to provision a Cisco vSmart Controller.**

#### NEW QUESTION 178

Refer to the exhibit.



The tunnel interface configuration on both WAN Edge routers is:

```

vpn 0
 interface ge0/1
 tunnel-interface
 encapsulation ipsec
 color biz-internet
 allow-service dhcp
 allow-service dns
 allow-service icmp
 no allow-service sshd
 no allow-service ntp
 no allow-service stun
 !
 no shutdown

```

Which configuration for WAN Edge routers will connect to the Internet?

- ☐ vpn 0  
interface ge0/1  
ip address 172.16.15.5/24  
!  
ip route 0.0.0.0/0 172.16.13.1
- ☒ vpn 0  
interface ge0/1  
ip address 172.16.13.3/24  
!  
ip route 0.0.0.0/0 172.16.13.1
- ☐ vpn 0  
interface ge0/1  
ip address 172.16.13.3/24  
!  
ip route 0.0.0.0/0 172.16.8.1
- ☐ vpn 0  
interface ge0/1  
ip address 172.16.15.5/24  
!  
ip route 0.0.0.0/0 172.16.8.1

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

**Answer: B**

**Explanation:**

[https://sdwan-docs.cisco.com/Product\\_Documentation/Software\\_Features/SD-WAN\\_Release\\_16.3/02System\\_a](https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/02System_a)

**NEW QUESTION 183**

Refer to the exhibit.

```
vEdge-Cloud#
vEdge-Cloud#
vEdge-Cloud# vshell
vEdge-Cloud:~$ cd /var/log/
vEdge-Cloud:/var/log$
vEdge-Cloud:/var/log$ ls -l
total 28992
-rw-r--r-- 1 root root 1441700 Nov 22 15:13 auth.log
-rw-r--r-- 1 basic adm 0 Aug 7 15:29 cloud-init.log
drwxr-xr-x 2 root root 4096 Nov 22 14:49 confd
-rw-r--r-- 1 root root 1896486 Nov 22 14:57 kern.log
-rw-r--r-- 1 root root 292292 Aug 9 22:31 lastlog
-rw-r--r-- 1 root root 6197843 Nov 22 15:14 messages
-rw-r--r-- 1 root root 10512141 Aug 30 21:00 messages.1
drwxr-xr-x 2 root root 4096 Nov 22 14:48 pdb
drwxr-xr-x 2 quagga quagga 4096 Aug 7 15:29 quagga
-rw-r--r-- 1 root root 437 Nov 22 14:48 sw_script_active.log
-rw-r--r-- 1 root root 382 Nov 22 14:48 sw_script_previous.log
-rw-r--r-- 1 root root 2004 Nov 22 14:49 sw_script_synccdb.log
-rw-r--r-- 1 root root 64064 Nov 22 15:07 tallylog
drwxr-xr-x 2 root root 60 Nov 22 14:48 tmplog
-rw-r--r-- 1 root root 6841506 Nov 22 15:14 vconfd
-rw-r--r-- 1 root root 184602 Aug 7 15:29 vdebug
-rw-r--r-- 1 root root 2479511 Nov 22 15:14 vsyslog
-rwxr-xr-x 1 root utmp 49536 Nov 22 15:07 wtmp
vEdge-Cloud:/var/log$
vEdge-Cloud:/var/log$
```

Which configuration stops Netconf CLI logging on WAN Edge devices during migration?

- ☐ logs
  - audit-disable
  - netconf-disable
- ☐ logs
  - netconf-disable
- ☐ logging
  - disk netconf-disable
- ☒ logging
  - disk
  - audit-disable
  - netconf-disable

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

**Answer: B**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/config-cmd.html#wp386725031>

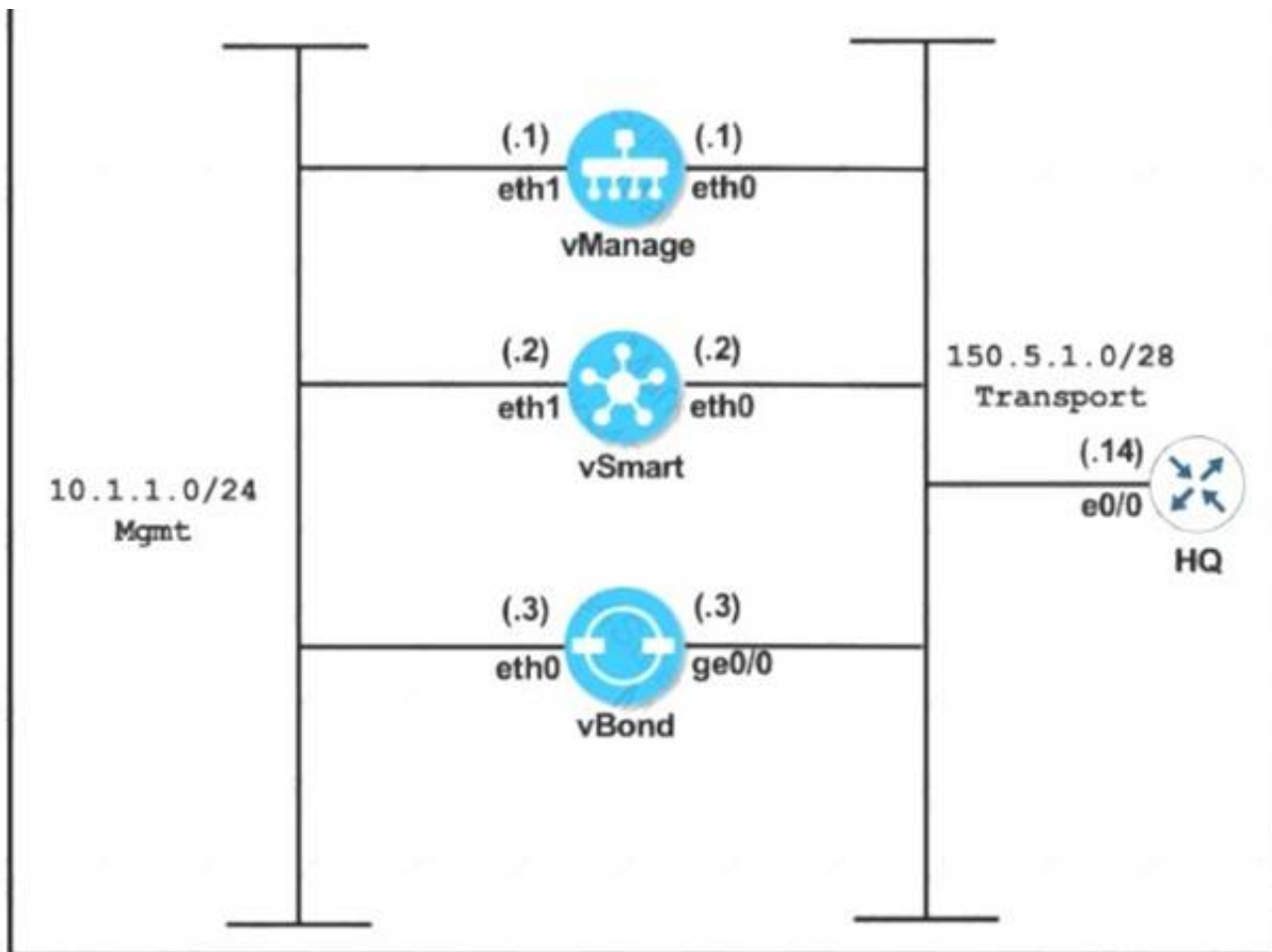
Syslog messages related to AAA authentication and Netconf CLI access and usage are placed in the auth.log and messages files. Each time Cisco vManage logs in to a Cisco vEdge device to retrieve statistics and status information and to push files to the router, the router generates AAA and Netconf log messages. So, over time, these messages can fill the log files. To prevent these messages from filling the log files, you can disable the logging of AAA and Netconf syslog messages:

```
Device(config)# system aaa logsViptela(config-logs)# audit-disableViptela(config-logs)# netconf-disable
```

**NEW QUESTION 186**

Refer to the exhibit.





```

vManage
system
 system-ip 10.10.10.101
 host-name vManage
 site-id 1
 clock timezone Europe/London
 vbond 150.5.1.3
 organization-name Cisco.com
!
vpn 0
 interface eth0
 ip address 150.5.1.1/28
 no shut
 tunnel-interface
 allow-service all
 ip route 0.0.0.0/0 150.5.1.14
!
commit

vSmart
system
 system-ip 10.10.10.102
 host-name vSmart
 site-id 1
 clock timezone Europe/London
 vbond 150.5.1.3
 organization-name Cisco.com
!
vpn 0
 interface eth0
 ip address 150.5.1.2/28
 no shut
 tunnel-interface
 allow-service all
 ip route 0.0.0.0/0 150.5.1.14
!
commit

vBond
system
 system-ip 10.10.10.103
 host-name vBond
 site-id 1
 clock timezone Europe/London
 vbond 150.5.1.3
 organization-name Cisco.com
!
vpn 0
 interface ge0/0
 ip address 150.5.1.3/28
 no shut
 tunnel-interface
 encapsulation ipsec
 allow-service all
 ip route 0.0.0.0/0 150.5.1.14
!
commit

```

An engineer is troubleshooting an issue where vManage and vSmart have a problem establishing a connection to vBond. Which action fixes the issue?

- A. Reconfigure the vBond command on the vBond as vBond 150.5.1.3 local
- B. Configure the tunnel interface on all three controllers with a color of transport
- C. Remove the encapsulation IPsec command under the tunnel interface of vBond.
- D. Configure encapsulation as IPsec under the tunnel interface of vManage and vSmart

**Answer: A**

**Explanation:**

Configure the IP address of Cisco vBond Orchestrator. Cisco vBond Orchestrator's IP address must be a public IP address, to allow all Cisco vEdge devices in the overlay network to reach Cisco vBond Orchestrator:

```
vBond(config-system)#vbond ip-address local
```

In Releases 16.3 and later, the address can be an IPv4 or an IPv6 address. In earlier releases, it must be an IPv4 address. A vBond orchestrator is effectively a vEdge router that performs only the orchestrator functions. The local option designates the device to be Cisco vBond Orchestrator, not a vEdge router. Cisco vBond Orchestrator must run on a standalone virtual machine (VM) or hardware router; it cannot coexist in the same device as a software or hardware vEdge router.

#### NEW QUESTION 190

Drag and drop the REST API calls from the left onto the functions on the right.

|        |                   |
|--------|-------------------|
| PUT    | Retrieve or read. |
| GET    | Update an object. |
| POST   | Create an object. |
| DELETE | Remove an object. |

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- **GET:** Get resource from the server.
- **POST:** Create resource to the server.
- **PATCH or PUT:** Update existing resource on the server.
- **DELETE:** Delete existing resource from the server.

#### NEW QUESTION 195

Which policy tracks path characteristics such as loss, latency, and jitter in vManage?

- A. VPN
- B. control
- C. app-route
- D. data

**Answer:** C

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/ios-xe-17/policies-book-xe/applicat>

#### NEW QUESTION 199

The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location 406141498. Which command must be configured on these devices?

- A. cloud-qos
- B. service qos
- C. cloud-mis qos
- D. mis qos

**Answer:** A

#### NEW QUESTION 202

What is a benefit of the application aware firewall feature in the Cisco SD-WAN solution?

- A. application monitoring
- B. application malware protection
- C. application visibility
- D. control policy enforcement

Answer: C

**Explanation:**

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=242>

The Application Firewall inspects and blocks traffic based on applications or application-family. This application-aware firewall feature provides the following benefits:

- Application visibility and granular control

**NEW QUESTION 204**

Refer to the exhibit.

| Tunnel Endpoints                              | Protocol | State | Jitter (ms) | Loss (%) | FEC Loss |
|-----------------------------------------------|----------|-------|-------------|----------|----------|
| public-internet                               |          |       |             |          |          |
| vEdge1:public-internet-vEdge2:public-internet | IPSEC    | ↑     |             |          |          |
| vEdge1:public-internet-vEdge3:public-internet | IPSEC    | ↑     |             |          |          |
| vEdge1:public-internet-vEdge4:public-internet | IPSEC    | ↑     |             |          |          |
| vEdge1:public-internet-vEdge5:public-internet | IPSEC    | ↑     |             |          |          |

Which command-line configuration on a WAN Edge device achieves these results?

A)

```
vpn 0
interface ge0/0
ip address 10.50.0.101/30
tunnel-interface
encapsulation gre
color public-internet
allow-service ntp
```

```
ip route 0.0.0.0/0 10.50.0.102
```

B)

```
vpn 0
interface ge0/0
ip address 10.50.0.101/30
tunnel-interface
encapsulation ipsec
color public-internet restrict
allow-service all
allow-service netconf
```

```
ip route 0.0.0.0/0 10.50.0.102
```

C)

```
vpn 0
interface ge0/0
ip address 10.50.0.101/30
tunnel-interface
encapsulation ipsec
allow-service none
```

```
ip route 0.0.0.0/0 10.50.0.102
```

D)

```
vpn 1
interface ge0/0
ip address 10.50.0.101/30
tunnel-interface
encapsulation ipsec
color public-internet restrict
allow-service all
allow-service netconf
```

```
ip route 0.0.0.0/0 10.50.0.102
```

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

Answer: B



**NEW QUESTION 207**

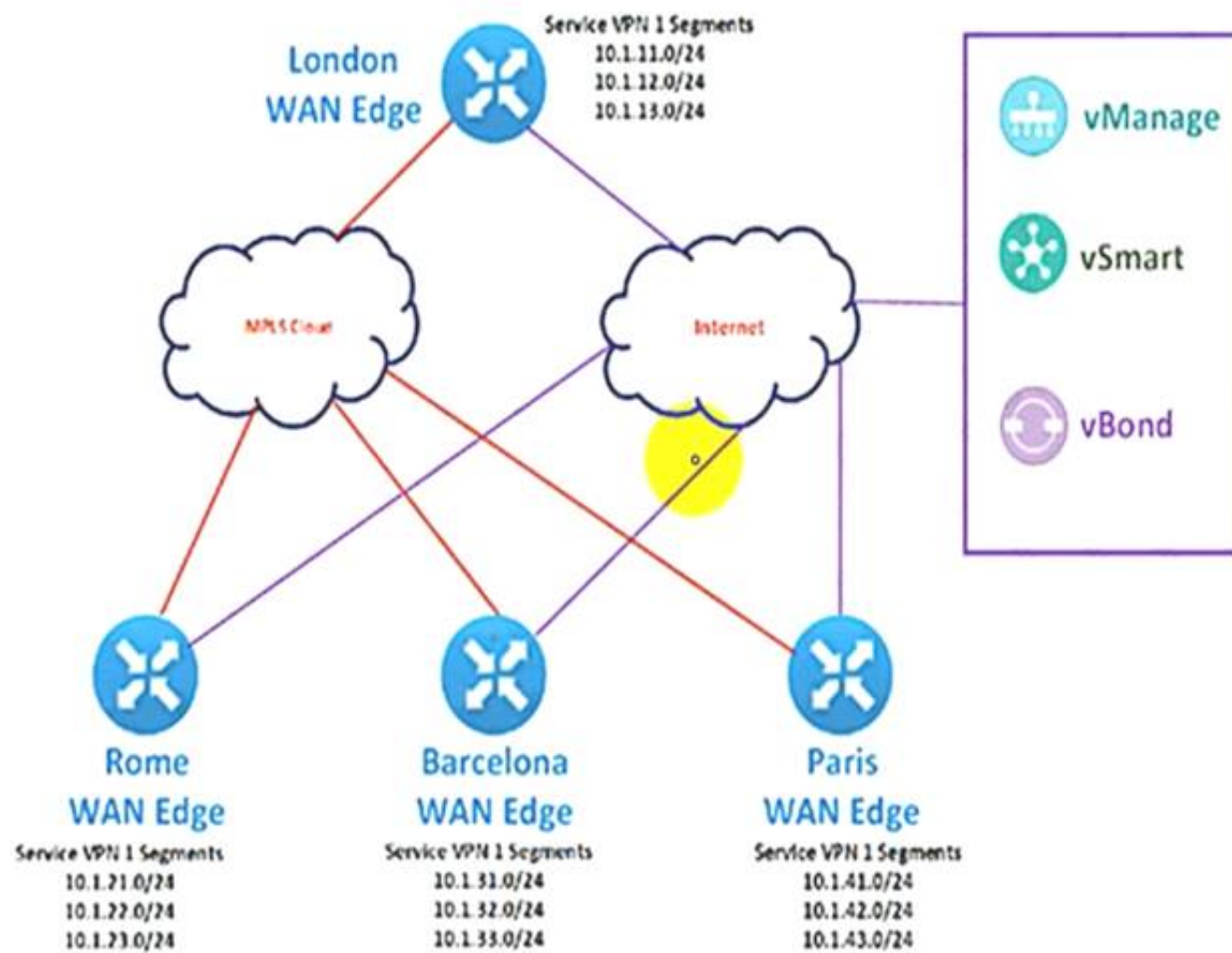
Which two sets of identifiers does OMP carry when it advertises TLOC routes between WAN Edge routers? (Choose two.)

- A. TLOC public and private address, carrier, and preference
- B. source and destination IP address, MAC, and site ID
- C. system IP address, link color, and encapsulation
- D. VPN ID, local site network, and BGP next-hop IP address
- E. TLOC public and private address, tunnel ID, and performance

**Answer:** AC

**NEW QUESTION 211**

Refer to the exhibit.



The Cisco SD-WAN network is configured with a default full-mesh topology. An engineer wants Paris WAN Edge to use the Internet HOC as the preferred TLOC for MSN Messenger and AOL Messenger traffic. Which policy achieves this goal?

A)



B)



C)





D)



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

**Answer: A**

#### NEW QUESTION 213

An engineering team must prepare a traffic engineering policy where an MPLS circuit is preferred for traffic coming from the Admin VLAN Internet should be used as a backup only. Which configuration fulfill this requirement?

A)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 10
tloc-list Hub_TLOCs
default-action reject
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

B)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
nat use-vpn 0
nat fallback
default-action reject
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

C)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 10
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

D)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 512
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

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

**Answer: C**

#### NEW QUESTION 215

Which two hardware platforms support Cisco IOS XE SD-WAN images" (Choose two)

- A. ASR1000 series
- B. ISR9300 series
- C. vEdge-1000 series
- D. ASR9000 series
- E. ISR4000 series

**Answer: AE**

#### NEW QUESTION 217

Which OSPF command makes the WAN Edge router a less preferred exit from a site with a dual WAN Edge design?

A)

```
vpn vpn-id
router
ospf
area number
range prefix/length
```

B)

```
vpn vpn-id
router
ospf
max-metric
```

C)

```
vpn vpn-id
router
ospf
area number
no-summary
```

D)

```
vpn vpn-id
router
ospf
area number
nssa
no-summary
```

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

**Answer: B**

#### NEW QUESTION 220

In a customer retail network with multiple data centers, what does the network administrator use to create a regional hub topology?

- A. control policy on vManage
- B. control policy on vSmart
- C. data policy on vSmart

D. app route policy on vSmart

Answer: A

NEW QUESTION 222

Refer to the exhibit.

|                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>vManage</b><br><br>system<br>system-ip 10.11.11.1<br>host-name vManage<br>site-id 1<br>clock timezone Europe/London<br>vbond 11.1.1.3<br>organization-name Cisco.com<br>Vpn 0<br>Interface eth1<br>Ip address 11.1.1.1/24<br>No shut<br>Tunnel-interface<br>Allow-service all<br>Ip route 0.0.0.0/0 11.1.1.254                             | <b>vSmart</b><br><br>system<br>system-ip 10.11.11.1<br>host-name vSmart<br>site-id 1<br>clock timezone Europe/Rome<br>vbond 11.1.1.3<br>organization-name Cisco.com<br>Vpn 0<br>Interface eth1<br>Ip address 11.1.1.2/24<br>No shut<br>Tunnel-interface<br>Allow-service all<br>Ip route 0.0.0.0/0 11.1.1.254 |
| <b>vBond</b><br><br>system<br>system-ip 10.11.11.3<br>host-name vManage<br>site-id 1<br>clock timezone Europe/London<br>vbond 11.1.1.1 local<br>organization-name Cisco.com<br>Vpn 0<br>Interface ge0/0<br>Ip address 11.1.1.3/28<br>No shut<br>Tunnel-interface<br>Encapsulation ipsec<br>Allow-service all<br>Ip route 0.0.0.0/0 11.1.1.254 |                                                                                                                                                                                                                                                                                                               |

vManage and vSmart have an issue establishing a connection to vBond. Which configuration resolves the issue?

- A. Configure the tunnel interface on all three controllers with a color of transport.
- B. Change the timezone on the vSmart to Europe/London.
- C. Configure the (11.1.1.X/24) IP addresses on the elhO interfaces on vManage and vSmart.
- D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

Answer: B

NEW QUESTION 223

An engineer must apply the configuration for certificate installation to vBond Orchestrator and vSmart Controller. Which configuration accomplishes this task?

- A. 

```
vpn 0
interface eth1
ip address 199.1.1.1/28
tunnel-interface
allow-service sshd
allow-service netconf
no shutdown
```
- B. 

```
vpn 512
interface eth1
ip address 199.1.1.1/28
tunnel-interface
allow-service sshd
allow-service netconf
```
- C. 

```
vpn 0
interface eth1
ip address 199.1.1.1/28
tunnel-interface
allow-service sshd
allow-service ntp
```
- D. 

```
vpn 512
interface eth1
ip address 199.1.1.1/28
tunnel-interface
allow-service netconf
no allow-service ntp
no allow-service stun
```

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

Answer: A





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