

## Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

<https://www.2passeasy.com/dumps/300-415/>



# 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)

App Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP

Actions

SLA Class

Data SLA

Preferred Color

public-internet

☒ Strict

Backup SLA Preferred Color

public-internet

Save Application Aware Routing Policy CANCEL

B)

App Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP

Actions

SLA Class

Data SLA

Preferred Color

public-internet

☒ Strict

Backup SLA Preferred Color

mpls

Save Application Aware Routing Policy CANCEL

C)

App Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP

Actions

SLA Class

Data SLA

Preferred Color

public-internet

☒ Strict

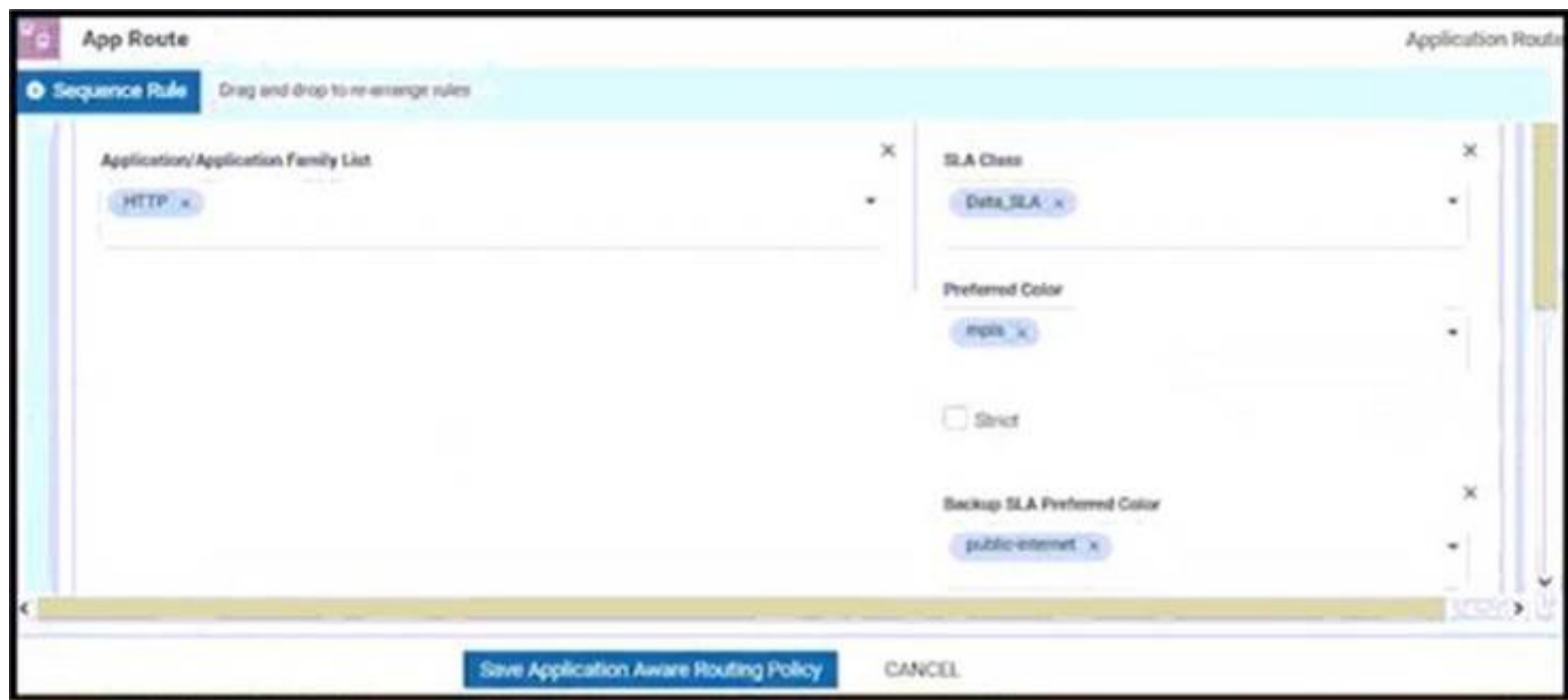
Backup SLA Preferred Color

mpls

Save Match And Actions CANCEL

Save Application Aware Routing Policy CANCEL

D)



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

Answer: C

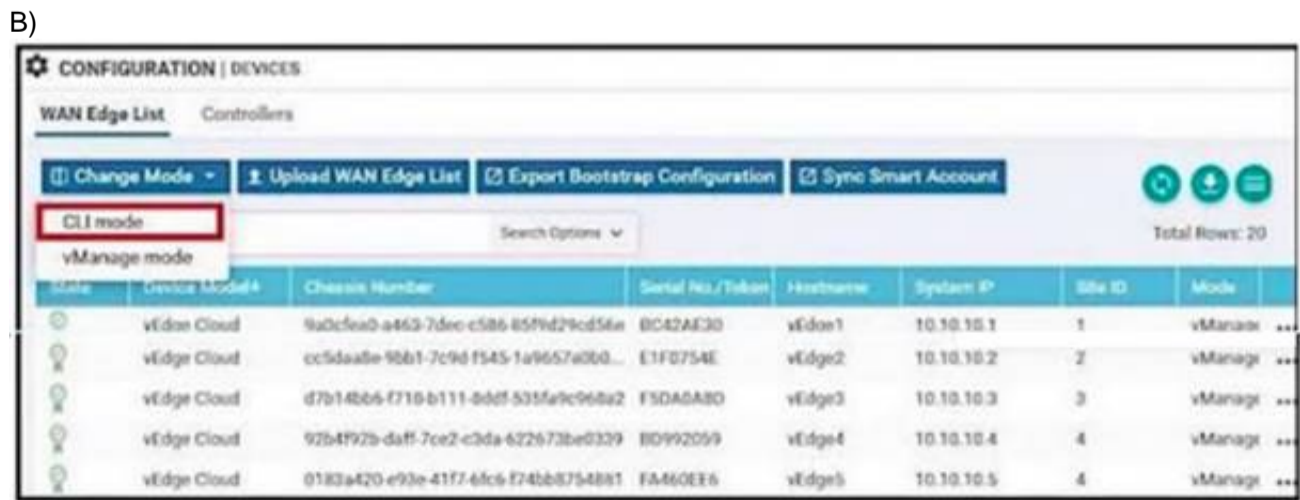
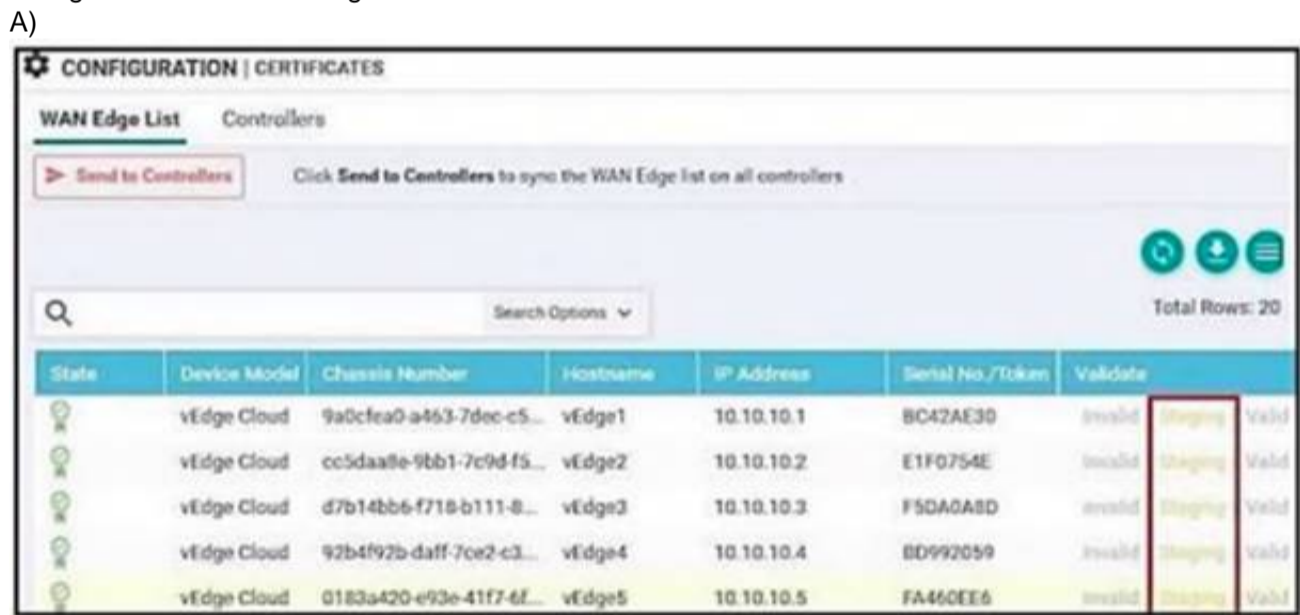
NEW QUESTION 2

Refer to the exhibit.

```
vEdge1# show control connections
```

PEER TYPE	PEER PROT	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIV PORT	PEER PUBLIC IP	
vsmart	dtls	10.2.2.2	1	1	10.50.0.5	12446	10.50.0.5	
vsmart	dtls	10.2.2.2	1	1	10.50.0.5	12446	10.50.0.5	
vbond	dtls	0.0.0.0	0	0	10.50.0.9	12346	10.50.0.9	
vbond	dtls	0.0.0.0	0	0	10.50.0.9	12346	10.50.0.9	
vmanage	dtls	10.1.1.1	1	0	10.50.0.1	12446	10.50.0.1	up

An organization is testing a Cisco SD-WAN solution and decided to have the control plane established first and not the data plane at the time of migration. Which configuration achieves this goal?



CONFIGURATION | CERTIFICATES

WAN Edge List   Controllers

Send to Controllers   Click Send to Controllers to sync the WAN Edge list on all controllers

Search Options

State	Device Model4	Chassis Number	Hostname	IP Address	Serial No./Token	Validate
	vEdge Cloud	9a0cfea0-a463-7dec-c5...	vEdge1	10.10.10.1	BC42AE30	Invalid   Staging   Valid
	vEdge Cloud	cc5daa8e-9bb1-7c9d-f5...	vEdge2	10.10.10.2	E1F0754E	Invalid   Staging   Valid
	vEdge Cloud	d7b14bb6-f718-b111-8...	vEdge3	10.10.10.3	F5DA0A8D	Invalid   Staging   Valid
	vEdge Cloud	92b4f92b-daff-7ce2-c3...	vEdge4	10.10.10.4	BD992059	Invalid   Staging   Valid
	vEdge Cloud	0183a420-e93e-41f7-6f...	vEdge5	10.10.10.5	FA460EE6	Invalid   Staging   Valid

D)

CONFIGURATION | CERTIFICATES

WAN Edge List   Controllers

Send to Controllers   Click Send to Controllers to sync the WAN Edge list on all controllers

Search Options

Total Rows: 20

State	Device Model4	Chassis Number	Hostname	IP Address	Serial No./Token	Validate
	vEdge Cloud	9a0cfea0-a463-7dec-c5...	vEdge1	10.10.10.1	BC42AE30	Invalid   Staging   Valid
	vEdge Cloud	cc5daa8e-9bb1-7c9d-f5...	vEdge2	10.10.10.2	E1F0754E	Invalid   Staging   Valid
	vEdge Cloud	d7b14bb6-f718-b111-8...	vEdge3	10.10.10.3	F5DA0A8D	Invalid   Staging   Valid
	vEdge Cloud	92b4f92b-daff-7ce2-c3...	vEdge4	10.10.10.4	BD992059	Invalid   Staging   Valid
	vEdge Cloud	0183a420-e93e-41f7-6f...	vEdge5	10.10.10.5	FA460EE6	Invalid   Staging   Valid

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

Answer: A

### NEW QUESTION 3

When software is upgraded on a vManage NMS, which two image-adding options store images in a local vManage software repository? (Choose two.)

- A. To be downloaded over a SMTP connection
- B. To be downloaded over a SNMP connection
- C. To be downloaded over an out-of-band connection
- D. To be downloaded over a control plane connection
- E. To be downloaded over an ICMP connection

Answer: CD

### NEW QUESTION 4

An engineer must automate certificate signing through Cisco. Which vManage configuration achieves this task?

A)

```
vpn 0
  dns 208.67.222.222 primary
  allow-service dns
  allow-service sshd
  allow-service netconf
```

B)

```
vpn 0
  allow-service dns
  allow-service sshd
  allow-service netconf
```

C)

```
vpn 512
  dns 208.67.222.222 primary
  allow-service dns
  allow-service sshd
  allow-service netconf
```

D)

```
vpn 512
allow-service dns
allow-service sshd
allow-service netconf
```

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

**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

An engineer is configuring a data policy for packets that must be captured through the policy. Which command accomplishes this task?

- A. policy > data-policy > vpn-list > sequence > default-action > drop
- B. policy > data-policy > vpn-list > sequence > action
- C. policy > data-policy > vpn-list > sequence > default-action > accept
- D. policy > data-policy > vpn-list > sequence > match

**Answer:** B

#### Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=357>

#### 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

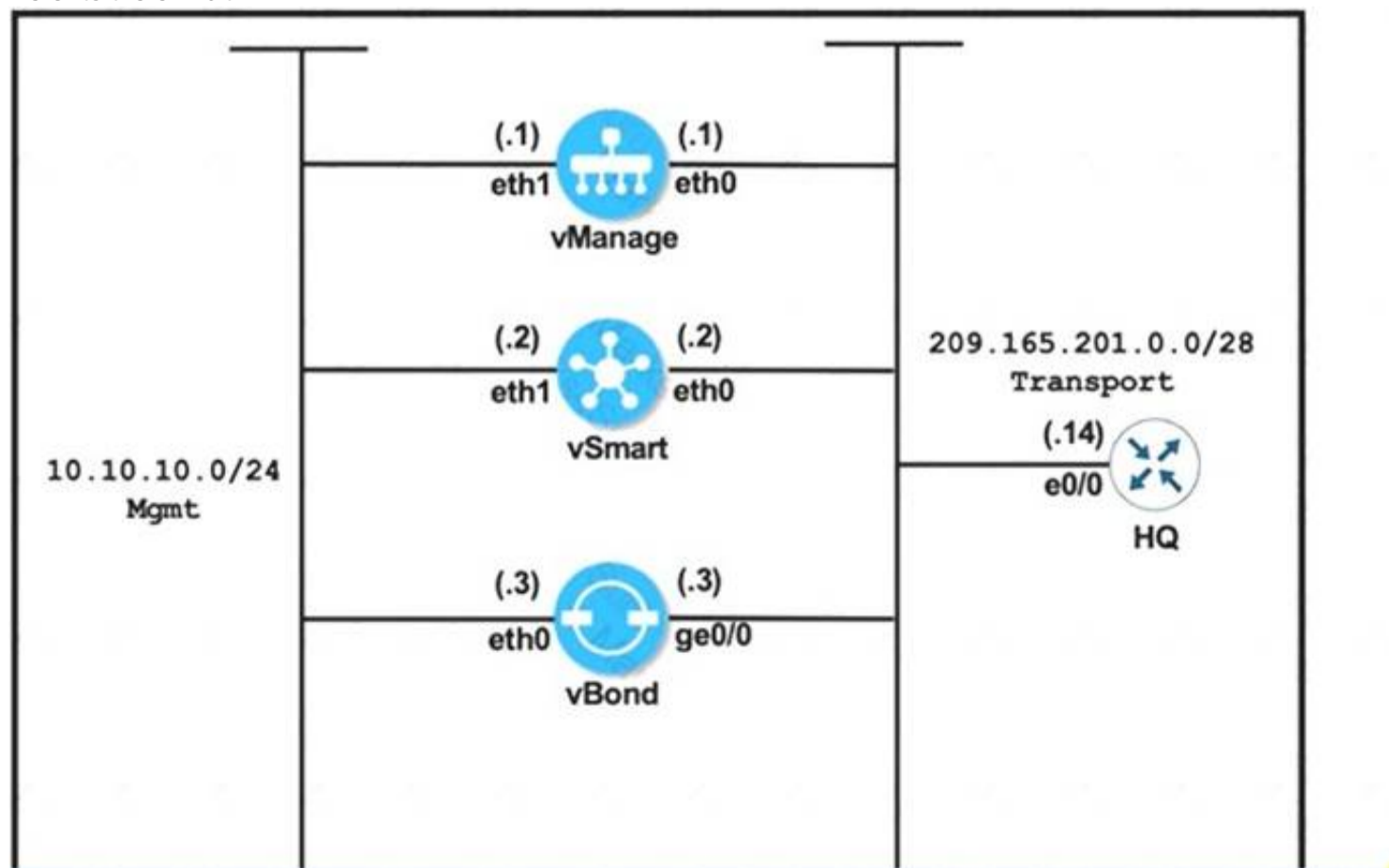
**Answer:** B

#### Explanation:

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_18.2/Configuration/Templates/B](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 device in the SD- WAN solution receives and categorizes event reports, and generates alarms?

- A. WAN Edge routers
- B. vSmart controllers
- C. vManage NMS
- D. vBond controllers

**Answer:** C

**Explanation:**

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_17.1/vManage\\_NMS\\_Product\\_](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.1/vManage_NMS_Product_)

#### NEW QUESTION 10

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

**NEW QUESTION 11**

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 15**

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 17**

Which Cisco SD-WAN component the initial communication between WAN Edge devices to join the fabric?

- A. WAN Edge Router
- B. vSmart Controller
- C. vManage
- D. vBond Orchestrator

**Answer: D**

**Explanation:**

The Cisco vBond Orchestrator orchestrates the initial control connection between Cisco vSmart Controllers and vEdge routers. It creates DTLS tunnels to the Cisco vSmart Controllers and vEdge routers to authenticate each node that is requesting control plane connectivity. This authentication

**NEW QUESTION 19**

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 24**

Which device information is required on PNP/ZTP to support the zero-touch onboarding process?

- A. serial and chassis numbers
- B. interface IP address
- C. public DNS entry
- D. system IP address

**Answer: A**

**Explanation:**

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sd-wan-wan-edge-onboarding-deploy-guid>

**NEW QUESTION 28**

Which two products that perform lifecycle management for virtual instances are supported by WAN Edge cloud routers? (Choose two.)

- A. OpenStack
- B. AWS
- C. VMware vCenter
- D. Azure
- E. IBM Cloud

**Answer: AC**

**Explanation:**

<https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-07-cloud-router-data-sheet-ct>

The following figure illustrates Cisco vEdge Cloud router solution elements.



**NEW QUESTION 32**

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 37**

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 42**

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 43**

How is the scalability of the vManage increased in Cisco SD-WAN Fabric?

- A. Increase licensing on the vManage
- B. Deploy multiple vManage controllers in a cluster
- C. Deploy more than one vManage controllers on different physical server.
- D. Increase the bandwidth of the WAN link connected to the vManage

**Answer: B**

**NEW QUESTION 48**

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 51

Which protocol is used to measure loss latency, Jitter, and liveliness of the tunnel between WAN Edge router peers?

- A. OMP
- B. IP SLA
- C. NetFlow
- D. BFD

**Answer:** D

#### NEW QUESTION 53

When the VPN membership policy is being controlled at the vSmart controller, which policy disallows VPN 1 at sites 20 and 30?

A)

```
apply-policy
site-list 20-30
vpn-membership disallow-vpn 1
!
!
policy
lists
site-list 20-30
site-id 20
site-id 30
!
vpn-list VPN 1
vpn 10
vpn 20
!
!
vpn-membership disallow-vpn 1
sequence 10
match
vpn-list VPN 1
!
action reject
!
!
default-action accept
```

B)

```
policy
lists
  site-list 20-30
  site-id 20
  site-id 30
!
prefix-list drop-list
ip-prefix 10.200.1.0/24
!
!
control-policy drop-unwanted-routes
sequence 10
match route
  prefix-list drop-list
!
  action reject
!
!
  default-action accept
```

C)

```
apply-policy
  site-list 20-30
  vpn-membership disallow-vpn1
!
!
policy
lists
  site-list 20-30
  site-id 20
  site-id 30
!
!
vpn-membership disallow-vpn1
sequence 10
match vpn-id 1
action reject
!
!
  default-action accept
```

D)

```

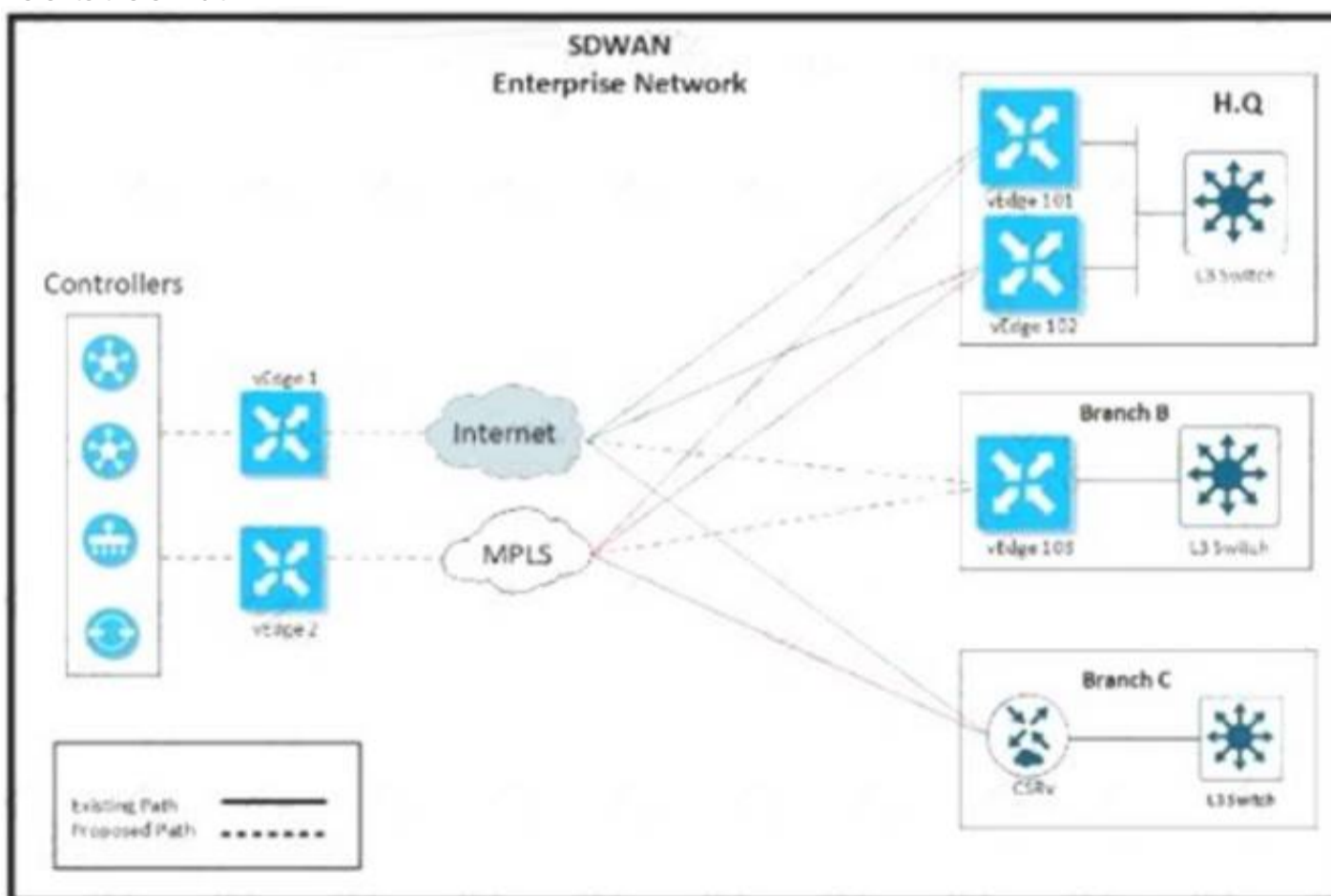
policy
lists
  site-list BP-Sites
    site-id 10
    site-id 20
  vpn-list All-BPs
    vpn 100
    vpn 101
  vpn-list Enterprise-BP
    vpn 200
control-policy import-BPs-to-Enterprise
sequence 10
match route
  vpn-list All-BPs
!
action accept
export-to vpn-list Enterprise-BP
!
!
!
default-action accept
  
```

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

Answer: C

#### NEW QUESTION 56

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 is 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 60

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

#### NEW QUESTION 63

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 65

Drag and drop the attributes from the left that make each transport location unique onto the right. Not all options are used.

IP address	target1
color	target2
encapsulation	target3
VPN	
service	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

A TLOC, or Transport Location, is the attachment point where a WAN Edge router connects to the WAN transport network. A TLOC is uniquely identified and represented by a three-tuple, consisting of system IP address, link color, and encapsulation (Generic Routing Encapsulation [GRE] or IPsec).

#### NEW QUESTION 70

Which plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay?

- A. Data
- B. Orchestration
- C. Management
- D. Control

**Answer:** B

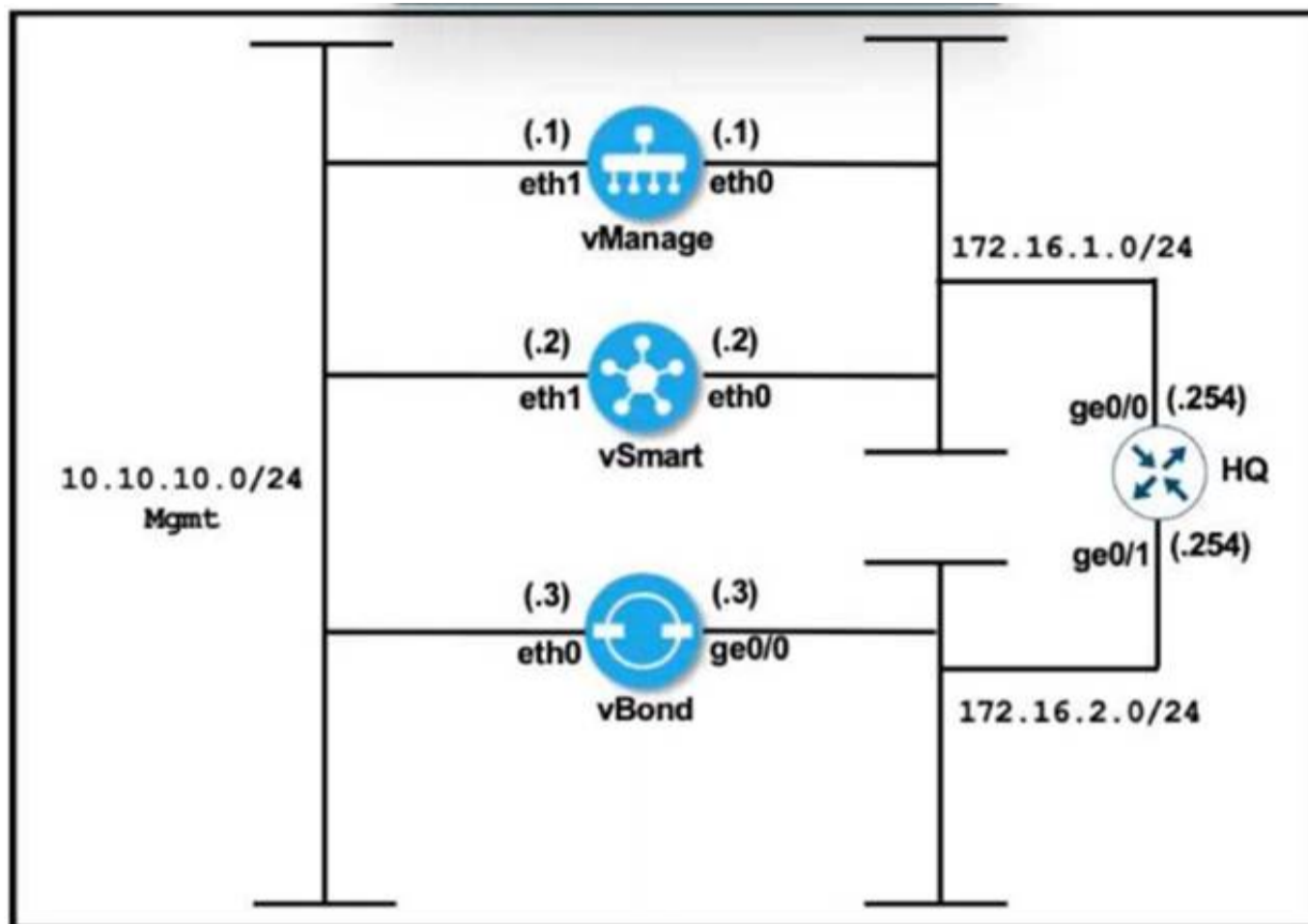
**Explanation:**

The Cisco SD-WAN solution is comprised of separate orchestration, management, control, and data planes.

- The orchestration plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay.

# NEW QUESTION 75

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 172.16.2.1   organization-name Cisco.com ! vpn 0   interface eth1     ip address 172.16.1.1/24     no shut     tunnel-interface       allow-service all   ip route 0.0.0.0/0 172.16.1.254 ! commit </pre>	<pre> system   system-ip 10.10.10.103   host-name vBond   site-id 1   clock timezone Europe/Rome   vbond 172.16.2.1 local   organization-name Cisco.com ! vpn 0   interface ge0/0     ip address 172.16.2.1/24     no shut     tunnel-interface       encapsulation ipsec       allow-service all   ip route 0.0.0.0/0 172.16.1.254 ! commit </pre>

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

- A. Configure the timezone on vBond to Europe/London.
- B. Configure the encapsulation ipsec command under the tunnel interface on vManage.
- C. Configure a default route on vBond pointing to 172.16.2.254.
- D. Remove the encapsulation ipsec command under the tunnel interface of vBond.

Answer: C

# NEW QUESTION 77

An organization wants to use the cisco SD-WAN regionalized service-chaining feature to optimize cost and user experience with application in the network, which allows branch routers to analyze and steer traffic toward the required network function. Which feature meets this requirement?

- A. Cloud Services Platform
- B. VNF Service Chaining
- C. Cloud onRamp for Colocation
- D. Cloud onRamp for IaaS

Answer: C

## Explanation:

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

The solution provides enterprises with multiple distributed branch offices that are clustered around major cities or spread over several countries the ability to regionalize the routing services in colocation facilities.

#### NEW QUESTION 78

An engineer is configuring a shaping rate of 1 Mbps on the WAN link of a WAN Edge router Which configuration accomplishes this task'?

- ☒ vpn vpn-id  
interface interface-name  
shaping-rate 1000000
- ☐ vpn vpn-id  
interface interface-name  
shaping-rate 1000
- ☐ interface interface-name  
vpn vpn-id  
shaping-rate 1000000
- ☐ interface interface-name  
vpn vpn-id  
shaping-rate 1000

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

**Answer:** B

#### NEW QUESTION 81

Which type of route advertisement of OMP can be verified?

- A. OMP, VP
- B. and origin
- C. Origin, TLOC, and VPN
- D. Origin, TLOC, and service
- E. OMP, TLOC and service

**Answer:** D

#### NEW QUESTION 86

If Smart Account Sync is not used, which Cisco SD-WAN component is used to upload an authorized serial number file?

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

**Answer:** B

#### Explanation:

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_18.3/Configuration/Devices](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices)

#### NEW QUESTION 89

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 93

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 95

How many vCPUs and how much RAM are recommended to run the vSmart controller on the KVM server for 251 to 1000 devices in software version 20.4.x?

- A. 4vCPU
- B. 16 GB
- C. 4 vCPU
- D. 8 GB
- E. 8vCPU

F. 16 GB  
G. 2vCPUs.4GB

**Answer:** B

#### NEW QUESTION 96

A customer has MPLS and Internet as the TLOC colors. An engineer must configure controllers with the Internet and not with MPLS. Which configuration achieves this requirement on vManage?

A)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color mpls
```

B)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color public-internet
```

C)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color biz-internet
```

D)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color default
```

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

**Answer:** B

#### NEW QUESTION 97

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 100

Company E wants to deploy Cisco SD-WAN with controllers in AWS. The company's existing WAN is on private MPLS without Internet access to controllers in AWS. An Internet circuit is added to a site in addition to the existing MPLS circuit. Which interface template establishes BFD neighbors over both transports?

A)

TUNNEL

Tunnel Interface

On

Off

Color

mgm

Restrict

On

Off

Groups

Border

On

Off

Control Connection

On

Off

Maximum Control Connections

1

vBond As Stun Server

On

Off

Exclude Controller Group List

vManage Connection Preference

Port Hop

On

Off

Low-Bandwidth Link

On

Off

B)

TUNNEL

Tunnel Interface

On

Off

Color

mgm

Restrict

On

Off

Groups

Border

On

Off

Control Connection

On

Off

Maximum Control Connections

vBond As Stun Server

On

Off

Exclude Controller Group List

vManage Connection Preference

Port Hop

On

Off

Low-Bandwidth Link

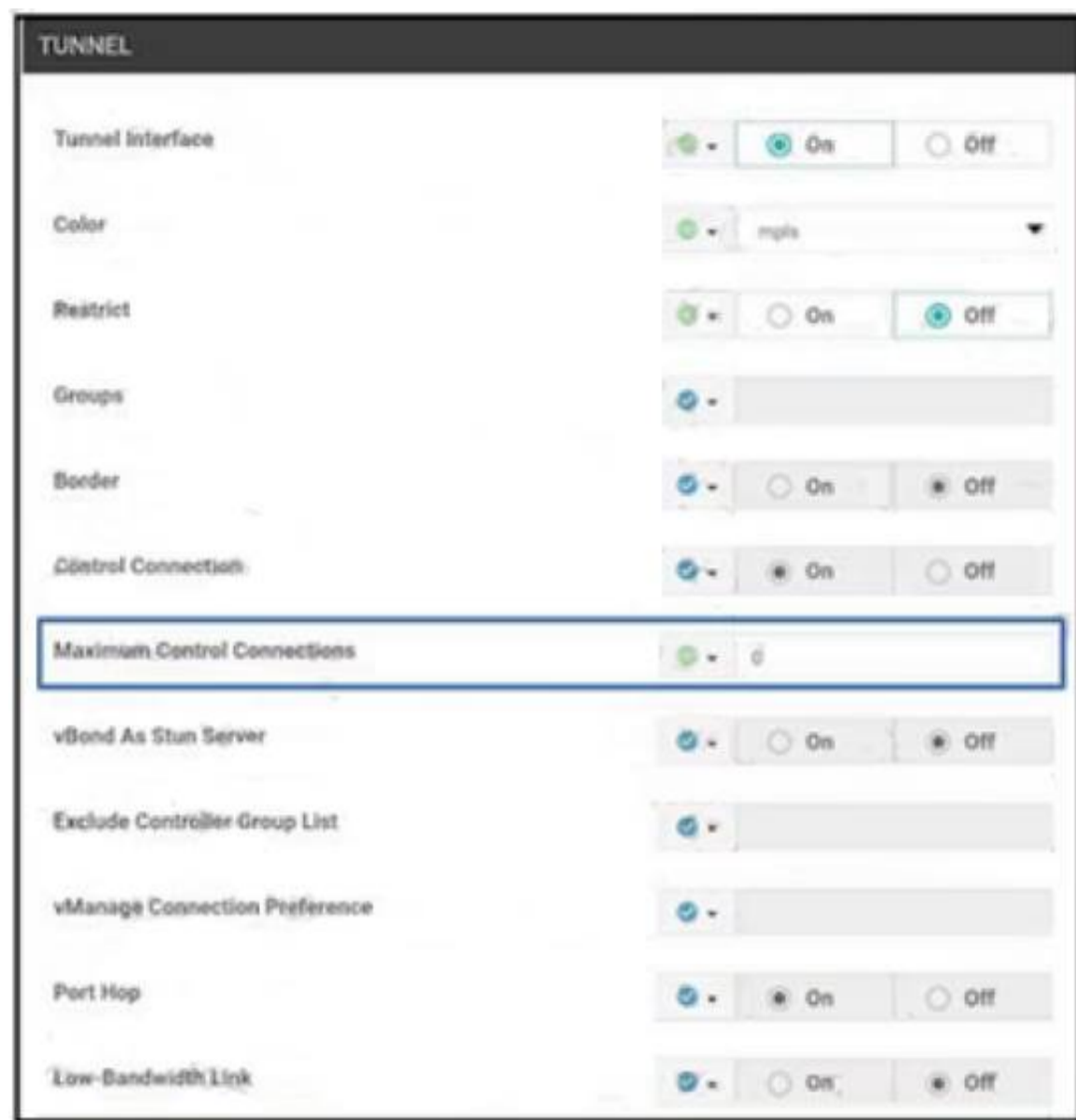
On

Off

C)

Miss

D)



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

**Answer:** A

#### NEW QUESTION 102

An engineer is configuring a data policy for IPv4 prefixes for a single WAN Edge device on a site with multiple WAN Edge devices How is this policy added using the policy configuration wizard?

- A. In vManage NMS, select the configure policies screen, select the localized policy tab and click add policy
- B. In vSmart controller, select the configure policies screen, select the localized policy ta
- C. and click add policy
- D. In vManage NM
- E. select the configure policies screen select the centralized policy tab and click add policy
- F. In vBond orchestrator
- G. select the configure policies screen, select the localized policy ta
- H. and click add policy

**Answer:** A

#### NEW QUESTION 105

An engineer is tasked to improve throughput for connection-oriented traffic by decreasing round-trip latency. Which configuration will achieve this goal?

- A. turn on "Enable TCP Optimization"
- B. turn off "Enhance ECMP Keying"
- C. turn off "Enable TCP Optimization"
- D. turn on "Enhance ECMP Keying"

**Answer:** A

#### Explanation:

**TCP optimization** fine-tunes the processing of TCP data traffic to decrease round-trip latency and improve throughput.

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-2.pdf#page=530>

#### NEW QUESTION 109

An administrator must configure an ACL for traffic coming in from the service-side VPN on a specific WAN device with circuit ID 391897770. Which policy must be used to configure this ACL?

- A. local data policy
- B. central data policy

- C. app-aware policy
- D. central control policy

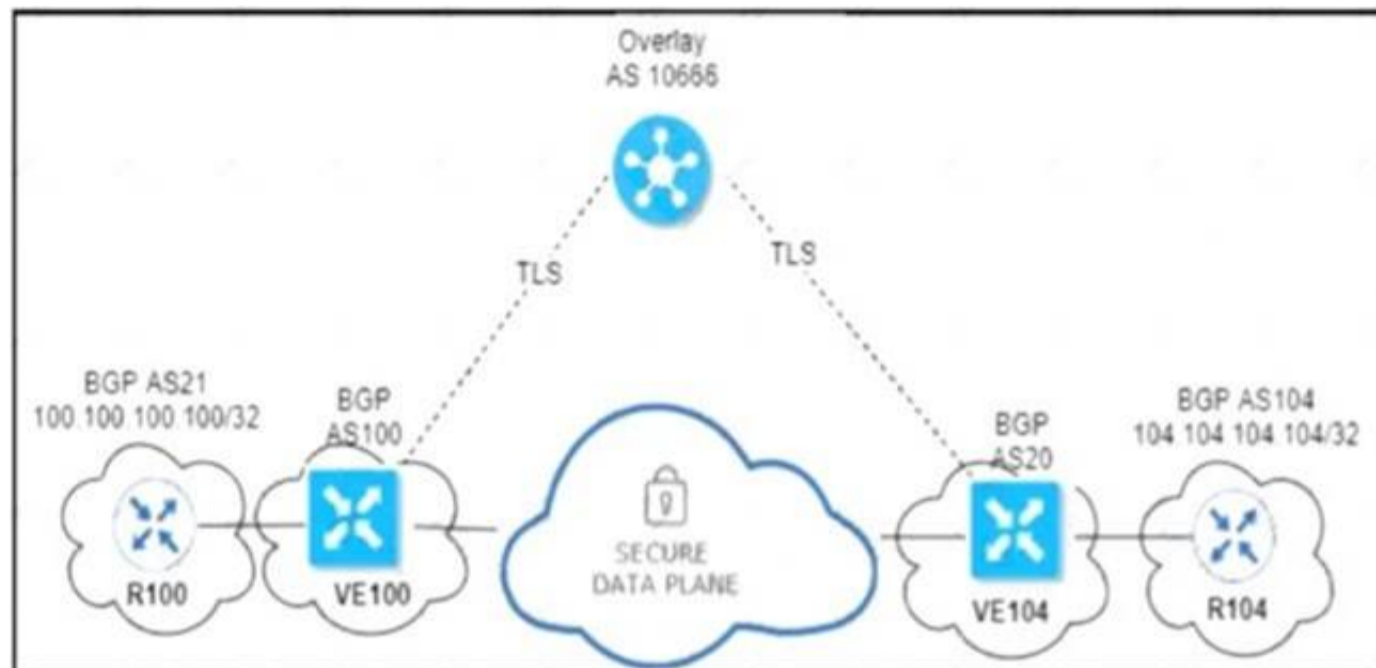
**Answer:** A

**Explanation:**

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

**NEW QUESTION 110**

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 111**

Which API call retrieves a list of all devices in the network?

- A. [https://vmanage\\_IP\\_address/dataservice/system/device/{{model}}](https://vmanage_IP_address/dataservice/system/device/{{model}})
- B. [http://vmanage\\_IP\\_address/dataservice/system/device/{{model}}](http://vmanage_IP_address/dataservice/system/device/{{model}})
- C. [http://vmanage\\_IP\\_address/api-call/system/device/{{model}}](http://vmanage_IP_address/api-call/system/device/{{model}})
- D. [https://vmanage\\_IP\\_address/api-call/system/device/{{model}}](https://vmanage_IP_address/api-call/system/device/{{model}})

**Answer:** A

**Explanation:**

Display all available vEdge routers in the overlay network.

GET <https://{vmanage-ip-address}/dataservice/system/device/vedges>

**NEW QUESTION 115**

Refer to the exhibit

```
vpn 1
service netsvc1 interface ipsec1

from-vsmart data-policy _1_ServiceIsectionIPSec
direction from-service
vpn-list 1
sequence 1
match
destination-ip 1.1.1.1/32
action accept
set
service netsvc1
default-action accept
from-vsmart lists vpn-list 1
vpn 1
```

Which command allows traffic through the IPsec tunnel configured in VPN 0?

- A. service local

- B. service FW address 1.1.1.1
- C. service netsvc1 vpn 1
- D. service netsvc1 address 1.1.1.1

**Answer:** B

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge-20-x/policies-book/service-c>

**NEW QUESTION 116**

Which secure tunnel type should be used to connect one WAN Edge router to other WAN Edge routers?

- A. TLS
- B. DTLS
- C. SSL VPN
- D. IPsec

**Answer:** D

**NEW QUESTION 117**

What prohibits deleting a VNF image from the software repository?

- A. if the image is stored by vManage
- B. if the image is referenced by a service chain
- C. if the image is uploaded by a WAN Edge device
- D. if the image is included in a configured policy

**Answer:** D

**NEW QUESTION 120**

Which pathway under Monitor > Network > Select Device is used to verify service insertion configuration?

- A. Real Time
- B. System Status
- C. ACL Logs
- D. Events

**Answer:** A

**Explanation:**

- Using Cisco vManage:

View the configured services on the Real Time monitoring page (**Monitor > Network > hub-device > Real Time**). For Device Options, select OMP Services.

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge-20-x/policies-book/service-c>

**NEW QUESTION 123**

At which layer does the application-aware firewall block applications on a WAN Edge?

- A. 3
- B. 7
- C. 5
- D. 2

**Answer:** B

**NEW QUESTION 128**

A network administrator is bringing up one WAN Edge for branch connectivity. Which types of tunnels form when the WAN edge router connects to the SD-WAN fabric?

- A. DTLS or TLS tunnel with vBond controller and IPsec tunnel with vManage controller.
- B. DTLS or TLS tunnel with vBond controller and IPsec tunnel with other WAN Edge routers.
- C. DTLS or TLS tunnel with vSmart controller and IPsec tunnel with other Edge routers.
- D. DTLS or TLS tunnel with vSmart controller and IPsec tunnel with vBond controller.

**Answer:** C

**Explanation:**

The WAN Edge routers form a permanent Datagram Transport Layer Security (DTLS) or Transport Layer Security (TLS) control connection to the vSmart controllers and connect to both of the vSmart controllers over each transport. The routers also form a permanent DTLS or TLS control connection to the vManage server, but over just one of the transports. The WAN Edge routers securely communicate to other WAN Edge routers using IPsec tunnels over each transport. The Bidirectional Forwarding Detection (BFD) protocol is enabled by default and runs

#### NEW QUESTION 129

How many subnets are necessary in Azure VNet for a WAN Edge device to function in the cloud deployment?

- A. CSR is the WAN Edge device that is supported in the Microsoft clou
- B. The Microsoft underlay cloud fabric performs the management function.
- C. There must be three subnets in VNet: management, public, and services.
- D. One public subnet is required in VNe
- E. The Microsoft underlay cloud fabric performs all of the routing functions for WAN Edge.
- F. Public and services subnets are required in VNe
- G. The Microsoft underlay cloud fabric performs the management function.

**Answer:** D

#### NEW QUESTION 133

An organization requires the use of integrated preventative engines, exploit protection, and the most updated and advanced signature-based antivirus with sandboxing and threat intelligence to stop malicious attachments before they reach users and get executed. Which Cisco SD-WAN solution meets the requirements?

- A. Cisco Trust Anchor module
- B. URL filtering and Umbrella DNS security
- C. Cisco AMP and Threat Grid
- D. Snort IPS

**Answer:** D

#### NEW QUESTION 134

When redistribution is configured between OMP and BGP at two Data Center sites that have Direct Connection interlink, which step avoids learning the same routes on WAN Edge routers of the DCs from LAN?

- A. Define different VRFs on both DCs
- B. Set same overlay AS on both DC WAN Edge routers
- C. Set down-bit on Edge routers on DC1
- D. Set OMP admin distance lower than BGP admin distance

**Answer:** B

#### Explanation:

Typically, there are more than one datacenters for HA/redundancy requirements. After successful migration of the first datacenter, migrate the second datacenter in a similar method as explained in this section. Note that a routing loop can occur if there is a backdoor link between the datacenter sites and route advertisement is configured between the two datacenters. To avoid the loop, any of the three methods explained below can be used:

1. Use the same Autonomous System Numbers (ASN) on edge routers of the two datacenters. Because of the same ASN, the AS-PATH attribute will avoid learning the same prefixes on the edge routers that are advertised by the other datacenter towards the LAN side.

2. Use overlay-AS to insert Overlay Management Protocol (OMP) AS number when redistributing the routes from OMP into LAN side towards DC LAN. Configure all DC SD-WAN edge routers with the same overlay-as. This allows the edges to filter the routes advertised by the other DCs edge devices towards the LAN side and prevents redistributing the same routes back into OMP.

3. Use tags or communities to mark the prefixes at one datacenter when redistributing to DC LAN and filter on the edge of the other datacenter when learning advertisements from the LAN side.

#### NEW QUESTION 136

An administrator is configuring the severity level on the vManage NMS for events that indicate that an action must be taken immediately. Which severity level must be configured?

- A. warning
- B. error
- C. critical
- D. alert

**Answer:** D

#### Explanation:

- **Alert**— Action must be taken immediately (corresponds to syslog severity 1).

#### NEW QUESTION 140

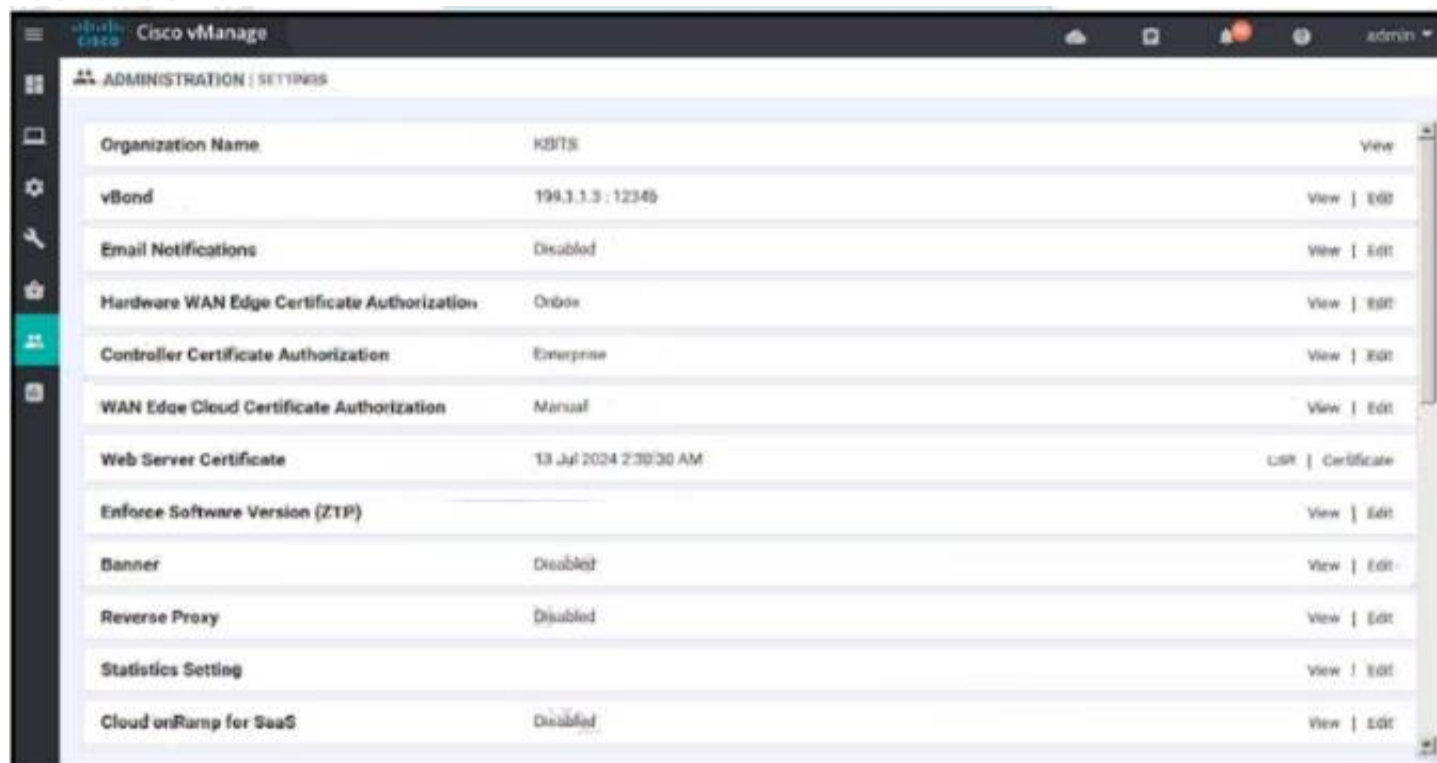
How is TLOC defined?

- A. It is represented by a unique identifier to specify a site in as SD-WAN architecture.
- B. It specifies a Cisco SD-WAN overlay in a multitenant vSMART deployment.
- C. It is a unique collection of GRE or IPsec encapsulation, link color, and system IP address.
- D. It is represented by group of QoS policies applied to a WAN Edge router.

Answer: C

#### NEW QUESTION 145

Refer to the exhibit.



Which two configurations are needed to get the WAN Edges registered with the controllers when certificates are used? (Choose two)

- A. Generate a CSR manually within vManage server
- B. Generate a CSR manually on the WAN Edge
- C. Request a certificate manually from the Enterprise CA server
- D. Install the certificate received from the CA server manually on the WAN Edge
- E. Install the certificate received from the CA server manually on the vManage

Answer: AE

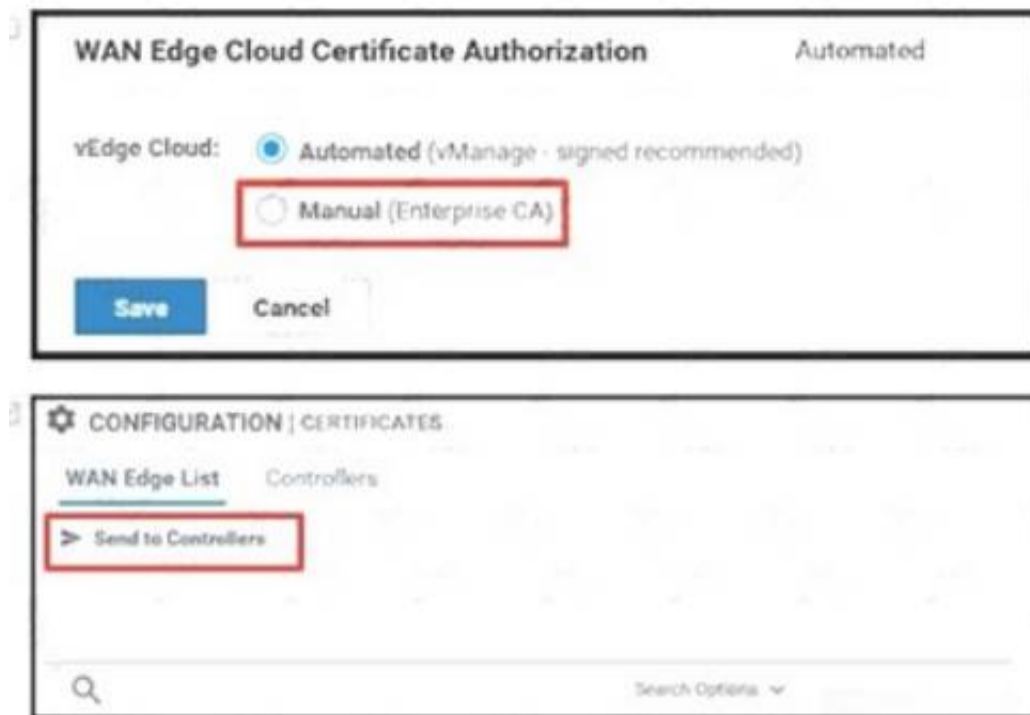
#### Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/cisco-sd-wan-certificates-deploy-2020aug>.

#### NEW QUESTION 147

An administrator must deploy the controllers using the On-Prem method while vManage can access the PnP portal from inside How are the two WAN Edge authorized allowed lists to be made available to vManage? (Choose two)





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

**Answer:** AB

**Explanation:**

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_18.4/Configuration/Devices](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.4/Configuration/Devices)

#### NEW QUESTION 152

A large retail organization decided to move some of the branch applications to the AWS cloud. How does the network architect extend the in-house Cisco SD-WAN branch to cloud network into AWS?

- A. Create virtual WAN Edge devices Cloud through the AWS online software store
- B. Create virtual instances of vSmart Cloud through the AWS online software store
- C. Create GRE tunnels to AWS from each branch over the Internet
- D. Install the AWS Cloud Router in the main data center and provide the connectivity from each branch

**Answer:** A

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco\\_Cloud\\_onRamp\\_for\\_IaaS\\_AWS\\_Versio](https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco_Cloud_onRamp_for_IaaS_AWS_Versio)

#### NEW QUESTION 154

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 157

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 158

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 160

Which two prerequisites must be met before the Cloud onRamp for IaaS is initiated on vManage to expand to the AWS cloud? (Choose two)

- A. Attach the \*AmazonCreateVPC\* and "Amazon Provision EC2" permission policy to the IAM account
- B. Subscribe to the SD-WAN Edge router AMI in the AWS account
- C. Attach an OSPF feature template to the AWS cloud Edge router template
- D. Attach a device template to the cloud WAN Edge router to be deployed in the AWS
- E. Preprovision the transit VPC in the AWS region

Answer: BD

#### Explanation:

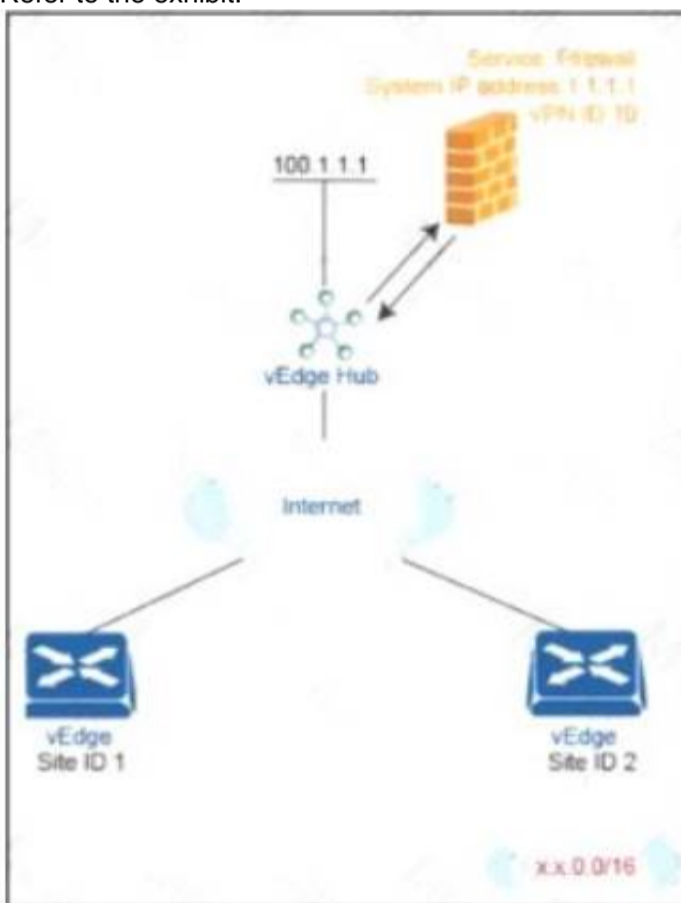
The pre-requisites include verifying you meet the AWS prerequisites, including the necessary AWS credentials and subscriptions to the Amazon Machine Image (AMI) instances for Cisco SD-WAN Edge routers (Cisco CSR 1000v virtual routers or Cisco vEdge Cloud); verifying you have available tokens/licenses for at least two additional Cisco SD-WAN Edge Routers within Cisco vManage; and configuring and deploying device templates for the Cisco SD-WAN Edge routers that will be used within the transit VPCs.

Note that the creation of the customer host VPCs, shown in the figure above, is outside the scope of this document. It is assumed that one or more customer host VPCs have already been created.

[https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco\\_Cloud\\_onRamp\\_for\\_IaaS\\_AWS\\_Versio](https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco_Cloud_onRamp_for_IaaS_AWS_Versio)

### NEW QUESTION 163

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 166

Which scheduling method is configured by default for the eight queues in the cloud vEdge router1?

- A. low latency queue
- B. priority queue
- C. weighted random early detection
- D. weighted round robin

**Answer:** D

#### NEW QUESTION 169

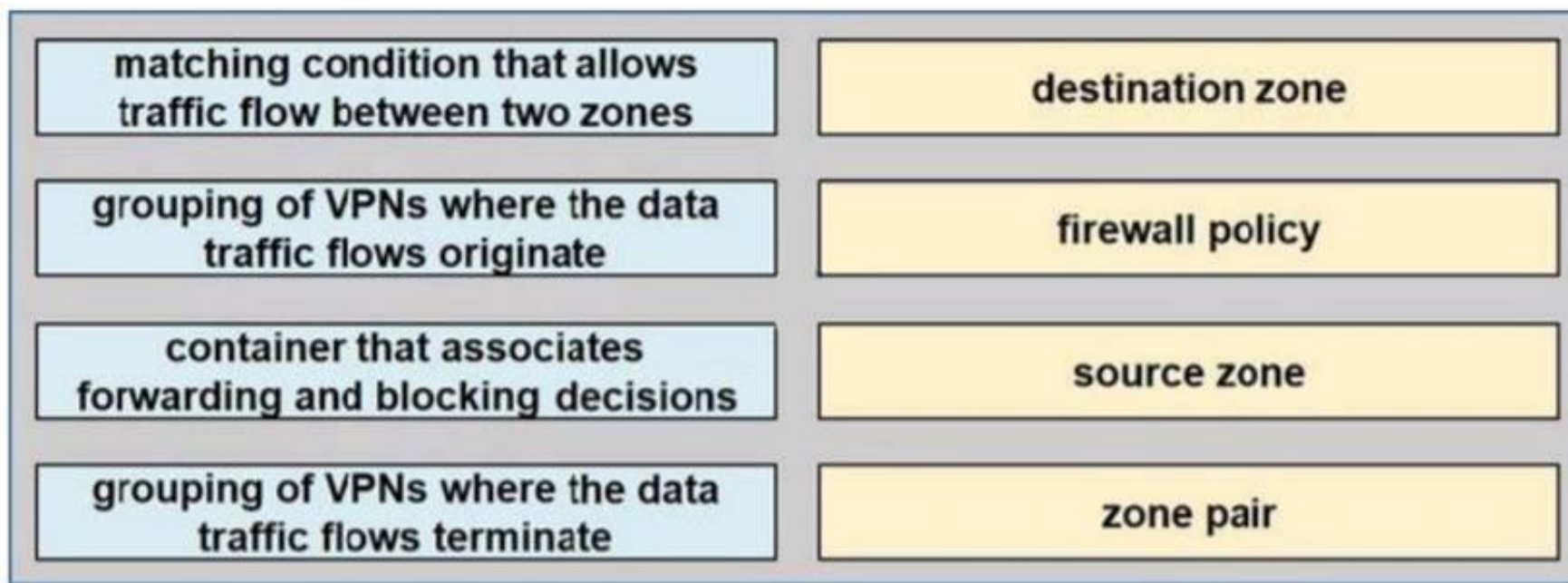
For data plane resiliency, what does the Cisco SD-WAN software implement?

- A. BFD
- B. establishing affinity between vSmart controllers and WAN Edge routers
- C. multiple vBond orchestrators
- D. OMP

**Answer:** A

#### NEW QUESTION 174

Drag and drop the definitions from the left to the configuration on the right.



- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

- **Source zone**—A grouping of VPNs where the data traffic flows originate.
- **Destination zone**—A grouping of VPNs where the data traffic flows terminate. A VPN can be part of only one zone
- **Zone-based firewall policy**—A data policy, similar to a localized data policy, that defines the conditions that the data traffic flow from the source zone must match to allow the flow to continue to the destination zone. Zone-based firewalls can match IP prefixes, IP ports, and protocols TCP, UDP, and ICMP. Matching flows can be accepted or dropped, and the packet headers can be logged. Nonmatching flows are dropped by default.
- **Zone pair**—A container that associates a source zone with a destination zone and that applies a zone-based firewall policy to the traffic that flows between zones.

Service Chaining

Traffic Flow Monitoring with Cflow

#### NEW QUESTION 176

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 177

How is multicast routing enabled on devices in the Cisco SD-WAN overlay network?

- A. The WAN Edge routers originate multicast service routes to the vSmart controller via OMP, which then forwards joins for requested multicast groups based on IGMP v1 or v2 toward the source or PIM-RP as specified in the original PIM join message.
- B. The vSmart controller originates multicast service routes to the WAN Edge routers via OMP, which then forwards joins for requested multicast groups based on IGMP v1 or v2 toward the source or PIM-RP as specified in the original PIM join message.
- C. The vSmart controller originates multicast service routes to the WAN Edge routers via OMP, which then forwards joins (or requested multicast groups based on IGMP v2 or v3 toward the source or PIM-RP as specified in the original PIM join message.
- D. The WAN Edge routers originate multicast service routes to the vSmart controller via OMP, which then forwards joins for requested multicast groups based on IGMP v2 or v3 toward the source or PIM-RP as specified in the original PIM join message.

Answer: A

Explanation:

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

#### NEW QUESTION 180

Refer to the exhibit.

| PEER<br>TYPE | PEER<br>PROTOCOL | PEER<br>SYSTEM | SITE<br>IP | DOMAIN<br>ID | PEER<br>PRIVATE<br>IP | PEER<br>PRIVATE<br>PORT | PEER<br>PUBLIC<br>IP | PUBLIC<br>PORT | CONTROLLER<br>LOCAL | GROUP<br>STATE |
|--------------|------------------|----------------|------------|--------------|-----------------------|-------------------------|----------------------|----------------|---------------------|----------------|
| vbond        | dtls             | -              | 0          | 0            | 1.3.25.25             | 12346                   | 1.3.25.25            | 12346          | gold                | connect        |
| vbond        | dtls             | -              | 0          | 0            | 1.3.25.25             | 12346                   | 1.3.25.25            | 12346          | silver              | connect        |

An engineer is troubleshooting a control connection Issue. What does "connect" mean in this how control connections output?

- A. Control connection is down
- B. Control connection is connected
- C. Control connection attempt is in progress
- D. Control connection is up

**Answer:** C

#### NEW QUESTION 185

Which command displays BFD session summary information per TLOC on vEdge routers?

- A. show bfd history
- B. show bfd summary
- C. show bfd sessions
- D. show bfd tloc-summary-list

**Answer:** D

#### NEW QUESTION 188

In Cisco SD-WAN, what protocol is used for control connections between SD-WAN devices?

- A. DTLS
- B. OMP
- C. BGP
- D. OSPF

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 192

Which two WAN Edge devices should be deployed in a cloud? (Choose two.)

- A. vEdge 5000v
- B. ASR 1000v
- C. CSR 1000v
- D. vEdge 100wm
- E. vEdge cloud

**Answer:** CE

#### Explanation:

##### 2. Virtual platforms

- Cloud Services Router (CSR) 1000v running IOS XE SD-WAN Software
- vEdge Cloud Router running Viptela OS

#### NEW QUESTION 197

In a Cisco SD-WAN network, which component is responsible for distributing route and policy information via the OMP?

- A. vManage
- B. vSmart Controller
- C. vBond Orchestrator
- D. WAN Edge Router

**Answer:** B

#### Explanation:

The Cisco vSmart Controller maintains a centralized route table that stores the route information, called OMP routes, that it learns from the vEdge routers and from any other Cisco vSmart Controllers in the Cisco SD-WAN overlay network. Based on the configured policy, the Cisco vSmart Controller shares this route information with the Cisco vEdge network devices in the network so that they can communicate with each other.

#### NEW QUESTION 200

An administrator needs to configure SD-WAN to divert traffic from the company's private network to an ISP network. What action should be taken to accomplish this goal?

- A. configure the control policy
- B. configure the data policy
- C. configure the data security policy
- D. configure the application aware policy

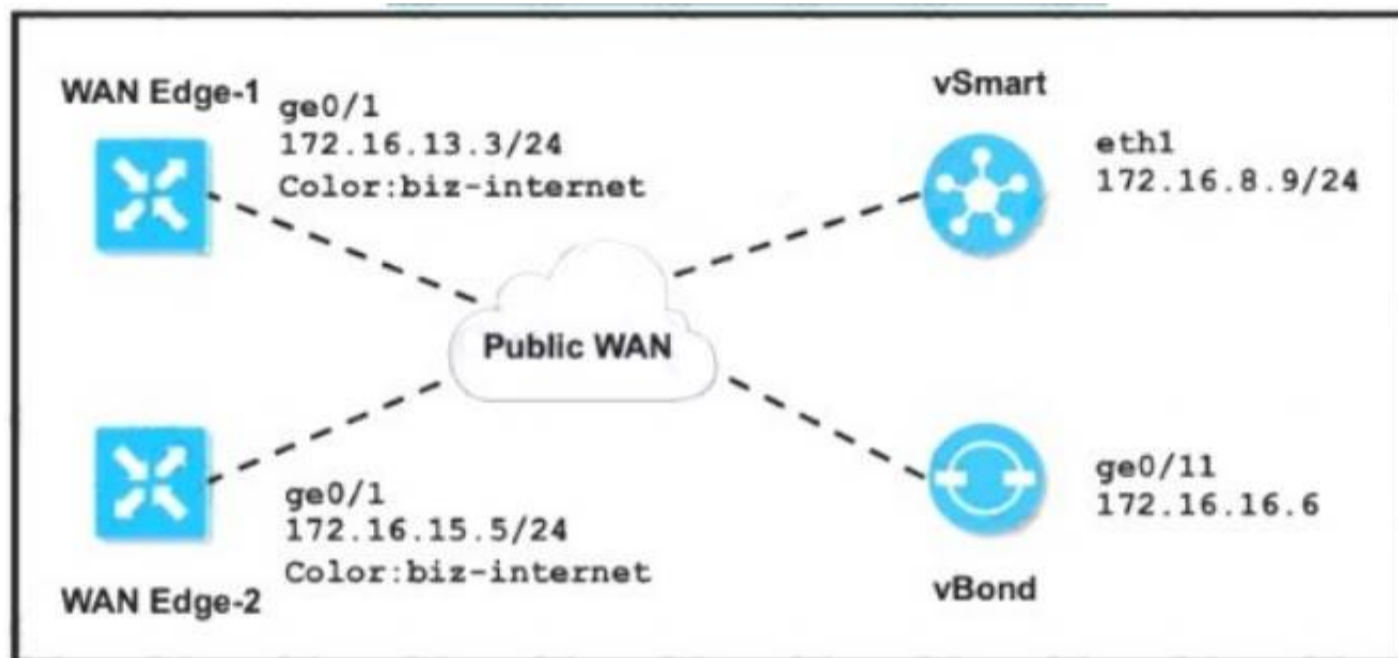
**Answer: B**

#### Explanation:

Data policy influences the flow of data traffic traversing the network

#### NEW QUESTION 204

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 209

Which protocol is configured on tunnels by default to detect loss, latency, jitter, and path failures in Cisco SD-WAN?

- A. TLS

- B. BFD
- C. OMP
- D. BGP

**Answer:** B

#### NEW QUESTION 213

On which device is a service FW address configured to Insert firewall service at the hub?

- A. vEdge at the branch
- B. vSmart at the hub
- C. vEdge at the hub
- D. vSmart at the branch

**Answer:** C

#### NEW QUESTION 216

Drag and drop the steps from the left into the order on the right to upload software on vManage repository that is accessible from maintenance > Software Repository.

|                                      |        |
|--------------------------------------|--------|
| Click the repository                 | Step 1 |
| select vManage to store the software | Step 2 |
| Click Add net software               | Step 3 |
| Choose the file and click upload     | Step 4 |

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

### Add an Image to the Software Repository

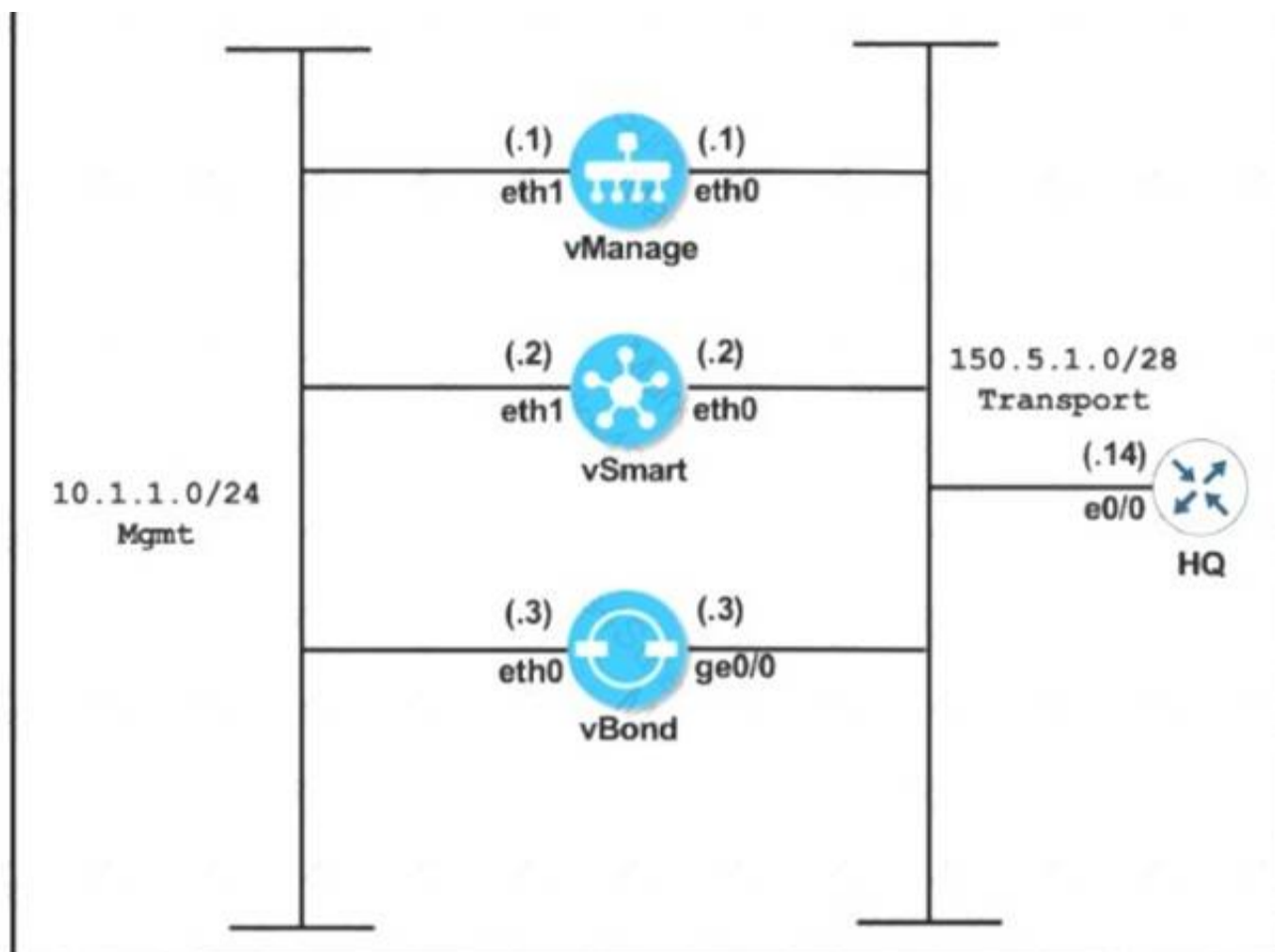
To add a software image to the software repository:

1. In Cisco vManage, click **Maintenance > Software Repository**.
2. Click **Add New Software** and select **vManage** from the drop-down menu.
3. In the **Upload Software to vManage** dialog box:
  - a. Click **Browse** and browse to the desired software image.
  - b. Click **Upload**.

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/Monitor-And-Maintain/monitor-maintain-bo>

#### NEW QUESTION 221

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 223

Which pathway under Monitor > Network > Select Device is used to verify service insertion configuration?

- A. System Status
- B. Troubleshooting
- C. Real Time
- D. Events

Answer: B

### NEW QUESTION 227

Refer to the exhibit,

```
Site 1:
vpn 10
  service FW address 1.1.1.1

On vSmart
policy
lists
  site-list firewall-sites
  site-id 1

apply-policy
  site-list firewall-sites control-policy firewall-service out
```

Which configuration routes Site 2 through the firewall in Site 1?

- ☒ control-policy firewall-service
  - sequence 10
  - match route
  - site-id 2
  - action accept
  - set service local
  - default-action accept
- ☐ On vSmart
  - control-policy firewall-service
  - sequence 10
  - match route
  - site-id 2
  - action accept
  - set
  - service FW vpn 10
  - default-action accept
- ☐ On vSmart
  - control-policy firewall-service
  - sequence 10
  - match route
  - site-id 2
  - action accept
  - set
  - service FW vpn 10
  - service local
  - default-action accept
- ☐ On vSmart
  - control-policy firewall-service
  - sequence 10
  - match route
  - site-id 2
  - action accept
  - set service FW vpn 10
  - default-action accept

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

Answer: D

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge-20-x/policies-book/service-c>

Here is the configuration procedure:

1. On the hub router, provision the firewall service, specifying the IP address of the firewall device. With this configuration, OMP on the hub router advertises one service route to the Cisco vSmart Controller. The service route contains a number of properties that identify the location of the firewall, including the TLOC of the hub router and a service label of svc-id-1, which identifies the service type as a firewall. (As mentioned above, before advertising the route, the device ensures that the firewall's IP address can be resolved locally.)

```
vpn 10
  service FW address 1.1.1.1
```

2. On the Cisco vSmart Controller, configure a control policy that redirects data traffic traveling from Site 1 to Site 2 through the firewall. Then, also on the Cisco vSmart Controller, apply this policy to Site 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
```

**NEW QUESTION 232**

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 233**

Refer to the exhibit

MONITOR | AUDIT LOG

Filter Module: vManage Root CA

1h 3h 6h 12h 24h 7days Custom

Search Options

Total Rows: 10

| Timestamp   | User   | User IP  | Message                                               | Module         | Feature         | Device   | Task ID                 |     |
|-------------|--------|----------|-------------------------------------------------------|----------------|-----------------|----------|-------------------------|-----|
| 18 Dec 2020 | system | 10.1.1.1 | Uploaded root ca uaid list file on vBond-d3aa12f...   | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Transferred root ca uaid list file to vBond-d3aa12... | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Installed root cert chain on vBond-d3aa12fd-b02...    | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Transferred root cert chain file to vBond-d3aa12f...  | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Installed root cert chain on vSmart-5478ad3f-04...    | vmanage-roo... | vmanage-root-ca | 10.2.2.2 | 5478ad3f-04e0-4d0f-b654 | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Transferred root cert chain file to vSmart-5478ad...  | vmanage-roo... | vmanage-root-ca | 10.2.2.2 | 5478ad3f-04e0-4d0f-b654 | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Uploaded root ca uaid list file on vBond-d3aa12f...   | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Installed root cert chain on vManage-6842d5cf...      | vmanage-roo... | vmanage-root-ca | 10.1.1.1 | 6842d5cf-ce74-41a0-9ff5 | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Transferred root ca uaid list file to vBond-d3aa12... | vmanage-roo... | vmanage-root-ca | 10.3.3.3 | d3aa12fd-b024-4246-899a | ... |
| 18 Dec 2020 | system | 10.1.1.1 | Transferred root cert chain file to vManage-6842...   | vmanage-roo... | vmanage-root-ca | 10.1.1.1 | 6842d5cf-ce74-41a0-9ff5 | ... |

vManage# show certificate installed

Server certificate

Certificate:

Data:

Version: 1 (0x0)

Serial Number:

d0:d1:f0:e0:63:52:c9:3a

Signature Algorithm: sha256WithRSAEncryption

Issuer: C=UK, ST=ENG, L=London, O=ABC, CN=SDWAN.lab

Validity

Not Before: Jul 30 19:42:30 2020 GMT

Not After : Jul 30 19:42:30 2021 GMT

Subject: C=US, ST=California, L=San Jose, OU=ABC,  
O=vIPTela Inc, CN=vmanage-6842d5cf-ce74-41a0-9ff5-  
10e810f9ddab-0.vm

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

Public-Key: (2048 bit)

A small company was acquired by a large organization. As a result, the new organization decided to update information on their Enterprise RootCA and generated a new certificate using openssl. Which configuration updates the new certificate and issues an alert in vManage Monitor | Events Dashboard?

A)

Step1: Generate the RootCA Certificate

```
openssl x509 -req -in vmanage_csr \
  -CA ROOTCA.pem -CAkey ROOTCA.key -CAcreateserial \
  -out vmanage.crt -days 365 -sha256
```

Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization >  
Enterprise Root Certificate

B)

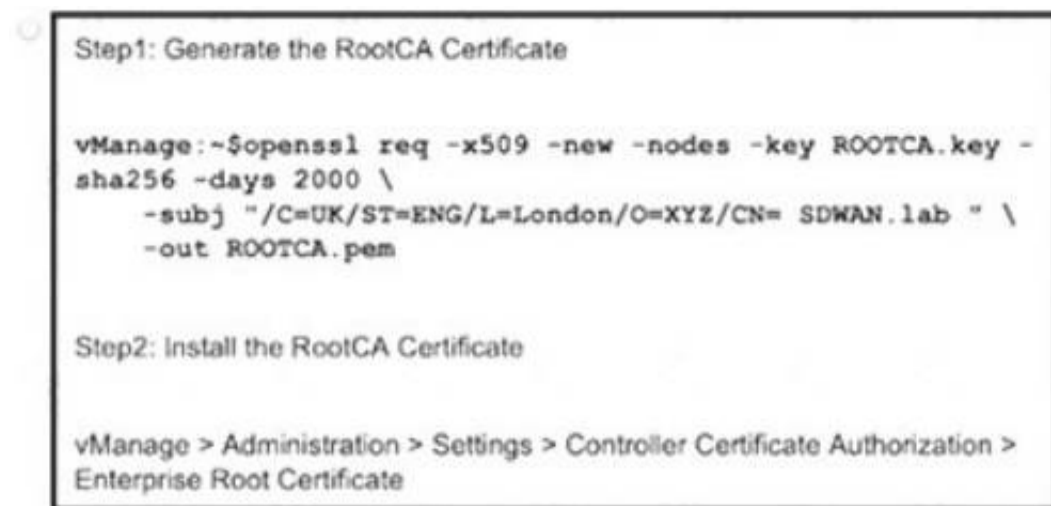
Step1: Generate the RootCA Certificate

```
openssl x509 -req -in vmanage_csr \
  -CA ROOTCA.pem -CAkey ROOTCA.key -CAcreateserial \
  -out vmanage.crt -days 365 -sha256
```

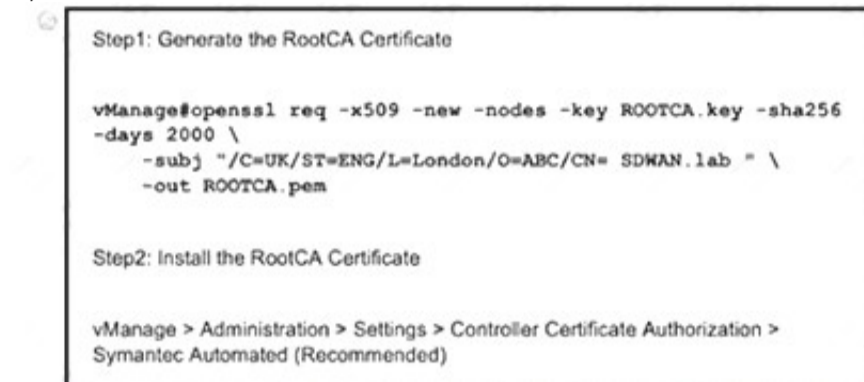
Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization >  
Symantec Automated (Recommended)

C)



D)



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

Answer: C

Explanation:

7. Generate Root CA certificate named **rootca.pem** and sign it with **rootca.key** that was generated on the previous step.

```
vmanage:~/web$ openssl req -x509 -new -nodes -key rootca.key -sha256 -days 4000 -out rootca.pem
```

#### NEW QUESTION 235

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 240

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 245

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 246

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 250

Which set of elements are verified by the controller to confirm the identity of edge devices?

- A. certificates, organization name and serial number of the device
- B. organization name serial number and system IP of the device
- C. certificates, organization name, and vBond domain
- D. certificates, system IP, and vBond domain

**Answer:** A

#### NEW QUESTION 253

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 256

What is a default protocol for control plane connection?

- A. IPsec
- B. HTTPS
- C. TLS
- D. DTLS

**Answer:** D

#### NEW QUESTION 259

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

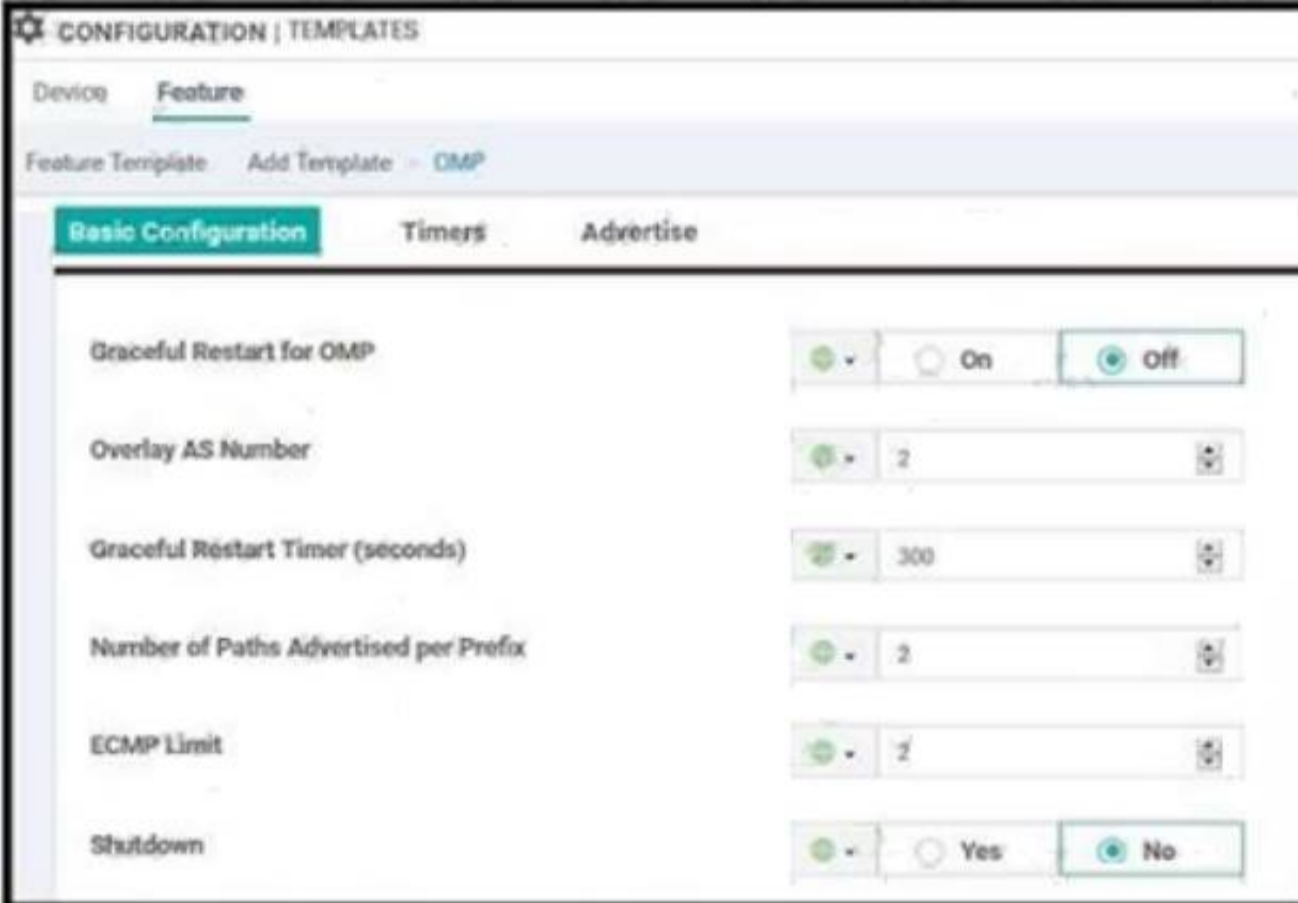
- A. control policy on vManage
- B. control policy on vSmart
- C. data policy on vSmart
- D. app route policy on vSmart

**Answer:** A

#### NEW QUESTION 264

A company must avoid downtime at the remote sites and data plane to continue forwarding traffic between WAN Edge devices if the branch router loses connectivity to its OMP peers Which configuration meets the requirement?

A)



The screenshot shows the 'CONFIGURATION | TEMPLATES' page in vManage. Under the 'Feature' tab, the 'OMP' feature template is selected. The 'Basic Configuration' sub-tab is active. The configuration settings are as follows:

| Feature                               | Value |
|---------------------------------------|-------|
| Graceful Restart for OMP              | Off   |
| Overlay AS Number                     | 2     |
| Graceful Restart Timer (seconds)      | 300   |
| Number of Paths Advertised per Prefix | 2     |
| ECMP Limit                            | 2     |
| Shutdown                              | No    |

B)

Feature Template Add Template OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP ☐ On ☒ Off

Overlay AS Number

Graceful Restart Timer (seconds)

Number of Paths Advertised per Prefix

ECMP Limit

Shutdown ☐ Yes ☒ No

C)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP ☒ On ☐ Off

Overlay AS Number

Graceful Restart Timer (seconds)

Number of Paths Advertised per Prefix

ECMP Limit

Shutdown ☒ Yes ☐ No

D)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP ☒ On ☐ Off

Overlay AS Number

Graceful Restart Timer (seconds)

Number of Paths Advertised per Prefix

ECMP Limit

Shutdown ☐ Yes ☒ No

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

**Answer:** D

#### NEW QUESTION 266

An engineer is troubleshooting a vEdge router and identifies a “DCONFAIL – DTLS connection failure” message. What is the problem?

- A. certificate mismatch
- B. organization mismatch
- C. memory issue
- D. connectivity issue

**Answer:** D

#### Explanation:

<https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-control-connections/ta-p/38>

#### NEW QUESTION 267

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

#### NEW QUESTION 268

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