



**Cisco**

**Exam Questions 300-415**

Implementing Cisco SD-WAN Solutions (ENSDWI)

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#### NEW QUESTION 1

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

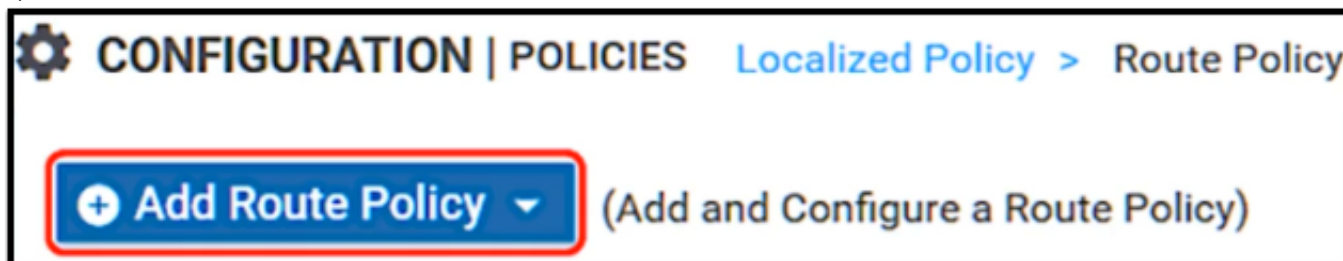
- A. .nxos
- B. .qcow2
- C. .ova
- D. .bin
- E. Tgz

Answer: BC

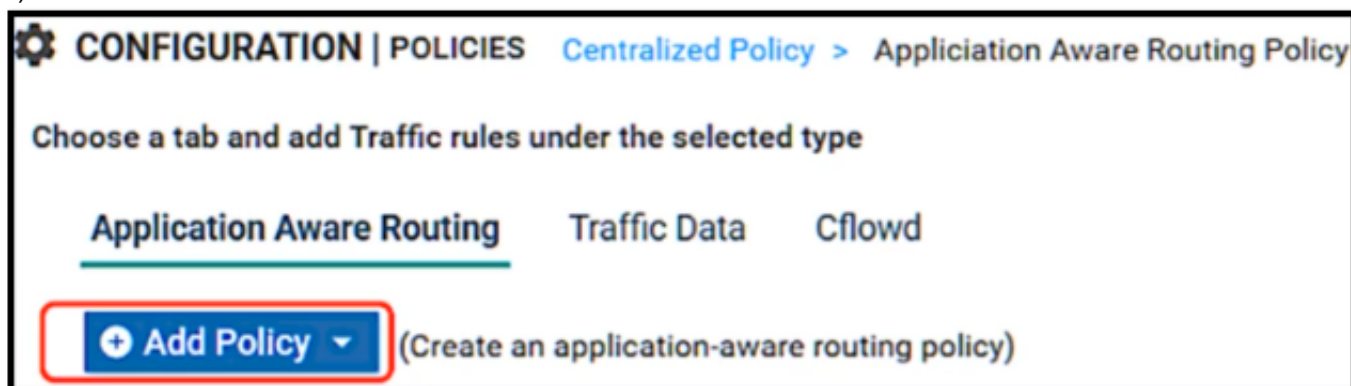
#### NEW QUESTION 2

An engineer must configure the SD-WAN Edge router to identify DSCP 26 traffic coming from the router's local site and then change the DSCP value to DSCP 18 before sending it over to the SD-WAN fabric. What are the two ways to create the required configuration? (Choose two).

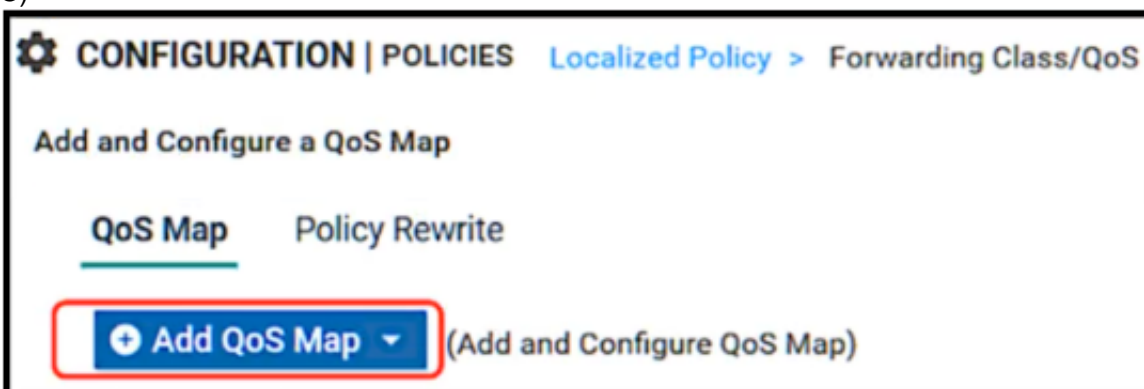
A)



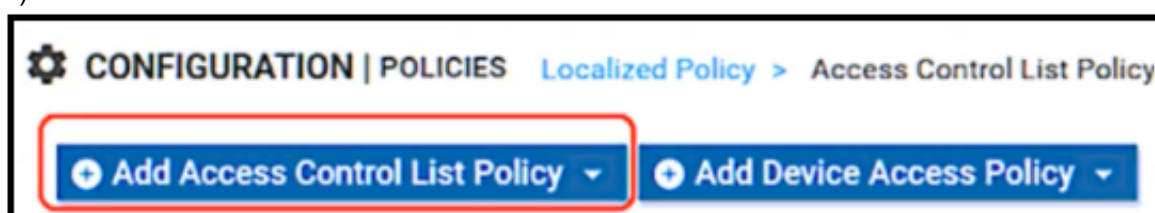
B)



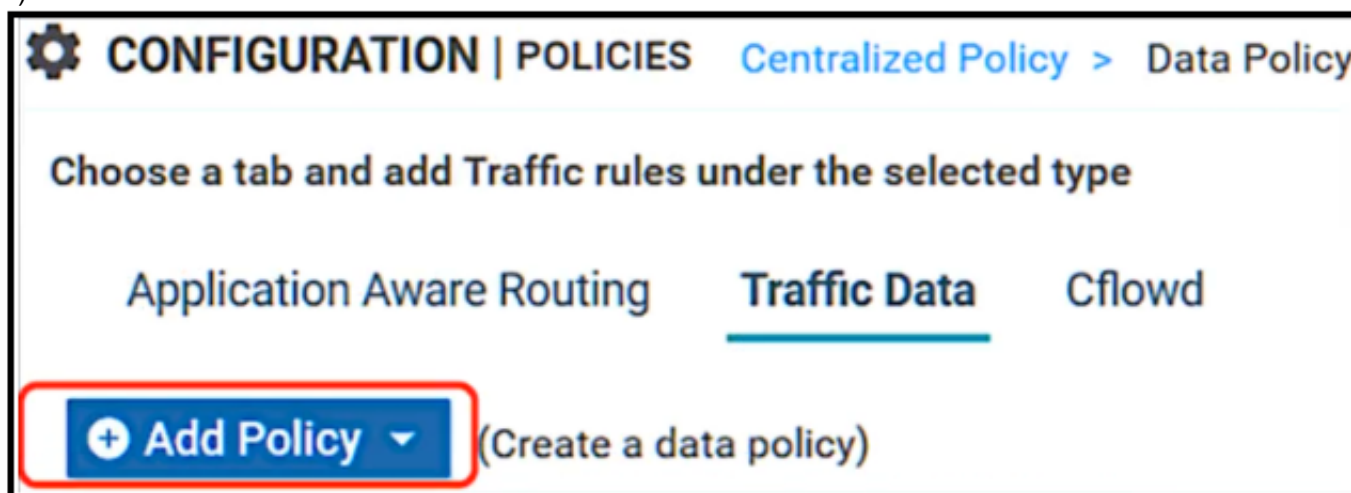
C)



D)



E)



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

Answer: AC

### NEW QUESTION 3

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

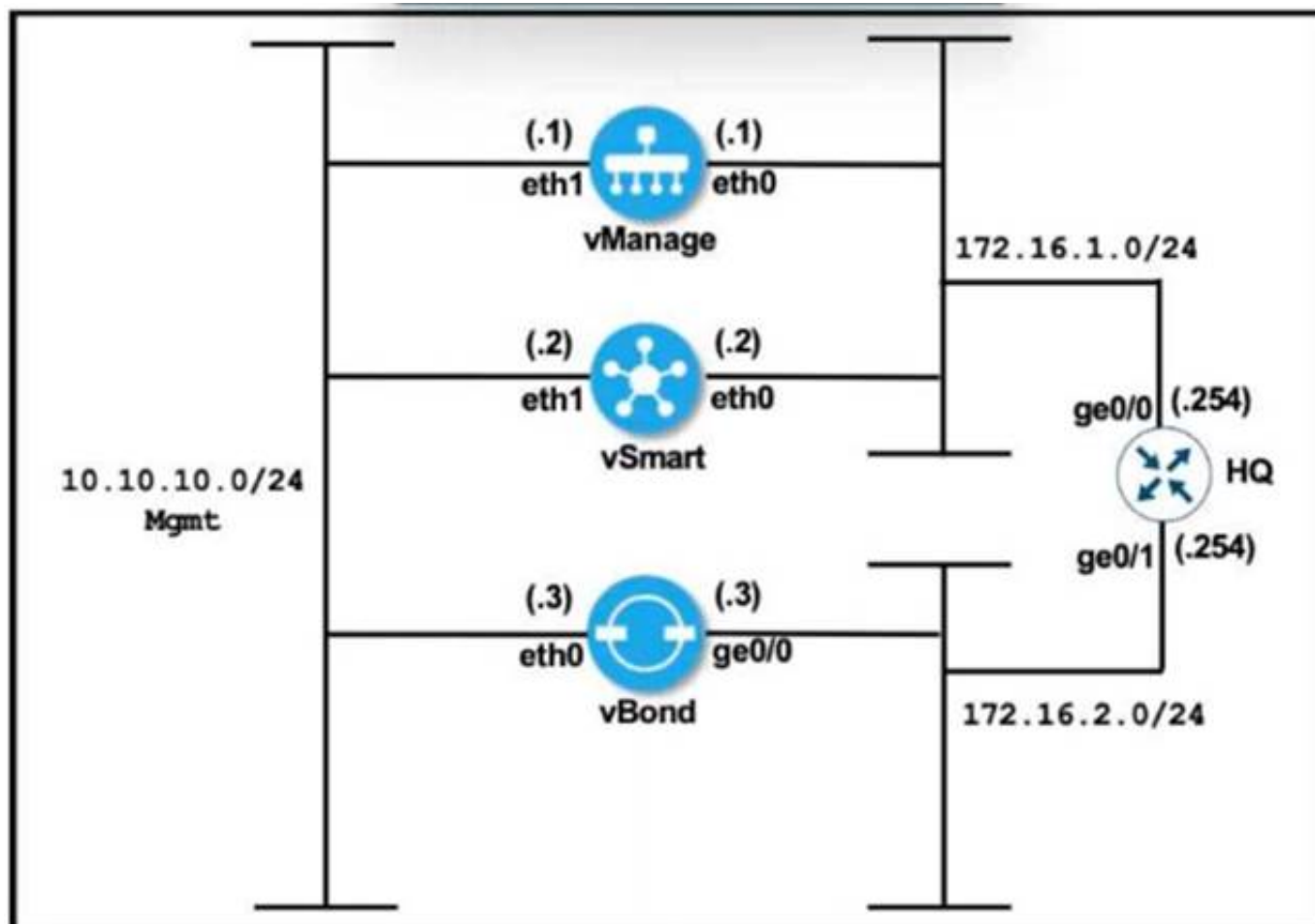
Answer: A

### 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 4

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 5

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 6

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 7

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 8

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 9

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:

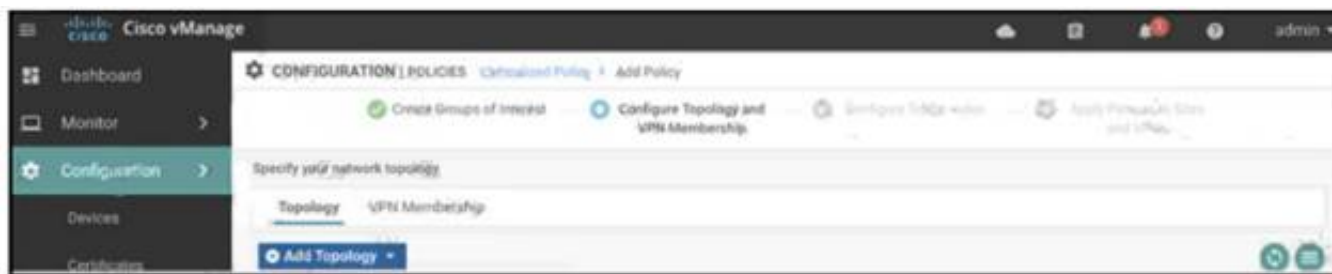
Display all available vEdge routers in the overlay network.

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

#### NEW QUESTION 10

Refer to the exhibit.





An administrator is configuring a policy in addition to an existing hub-and-spoke policy for two sites that should directly communicate with each other. How is this policy configured?

- A. hub-and-spoke
- B. mesh
- C. import existing topology
- D. custom control (route and TLOC)

**Answer:** D

**Explanation:**

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

#### NEW QUESTION 10

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 13

Which two different states of a WAN Edge certificate are shown on vManage? (Choose two.)

- A. inactive
- B. active
- C. staging
- D. invalid
- E. provisioned

**Answer:** BE

#### NEW QUESTION 18

Which type of certificate is installed on vManage for a user to access vManage via a web browser?

- A. Controller Certificate
- B. Web Server Certificate
- C. WAN Edge Certificate
- D. SD-AVC Certificate

**Answer:** B

#### NEW QUESTION 23

Which policy configuration must be used to classify traffic as it enters the branch WAN Edge router to be put into the desired output queue?

A)

```
Policy
class-map
class p1 queue 2
```

B)

```
qos-map Q_Map
qos-scheduler p1
```

C)

```
Policy
qos-scheduler QOS
class p1
bandwidth-percent 20
buffer-percent 20
drops red-drop
```

D)

```
Policy
access-list QoS
sequence 1
match
destination-ip 10.0.0.0/8
!
action accept
class p1
```

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

**Answer:** D

#### NEW QUESTION 28

What are two benefits of installing Cisco SD-WAN controllers on cloud-hosted services? (Choose two.)

- A. utilizes well-known cloud services such as Azur
- B. AW
- C. and GCP
- D. accelerates Cisco SD-WAN deployment
- E. allows integration of the WAN Edge devices In the cloud
- F. installs the controllers in two cloud regions in a primary and backup setup
- G. automatically Implements zone-based firewalling on the controllers

**Answer:** BD

#### NEW QUESTION 31

Which two virtualized environments are available for a company to install the controllers using the on-premises model? (Choose two )

- A. VMware vSphere ESXi
- B. VMware Workstation
- C. kernel-based virtual machine
- D. OpenStack
- E. Microsoft Hyper-V

**Answer:** AD

#### NEW QUESTION 34

An engineer configures an application-aware routing policy for a group of sites The locations depend on public and private transports The policy does not work as expected when one of the transports does not perform properly This policy is configured:

```
policy
sla-class BULK_DATA
loss 20
latency 300
jitter 100
!
sla-class TRANSACTIONAL_DATA
loss 15
latency 50
jitter 100
!
sla-class REALTIME
loss 20
latency 100
jitter 30
!
app-route-policy VPN-10_MPLS_AND_INET_SITES
vpn-list VPN-10
sequence 1
match
dscp 46
!
action
backup-sla-preferred-color biz-internet
sla-class REALTIME preferred-color private1
!
!
sequence 11
match
dscp 34
!
action
backup-sla-preferred-color biz-internet
sla-class TRANSACTIONAL_DATA preferred-color private1
!
!
```

which configuration completes the policy so that it works for all locations?

A)

```
sla-class TRANSACTIONAL_DATA
loss 5
latency 50
jitter 100
!
sla-class REALTIME
loss 2
latency 100
jitter 30
!
```

B)

```
sla-class TRANSACTIONAL_DATA
loss 2
latency 100
jitter 30
!
sla-class REALTIME
loss 15
latency 100
jitter 100
!
```

C)

```
sla-class BULK_DATA
loss 10
latency 300
jitter 100
!
sla-class REALTIME
loss 2
latency 100
jitter 30
!
```

D)

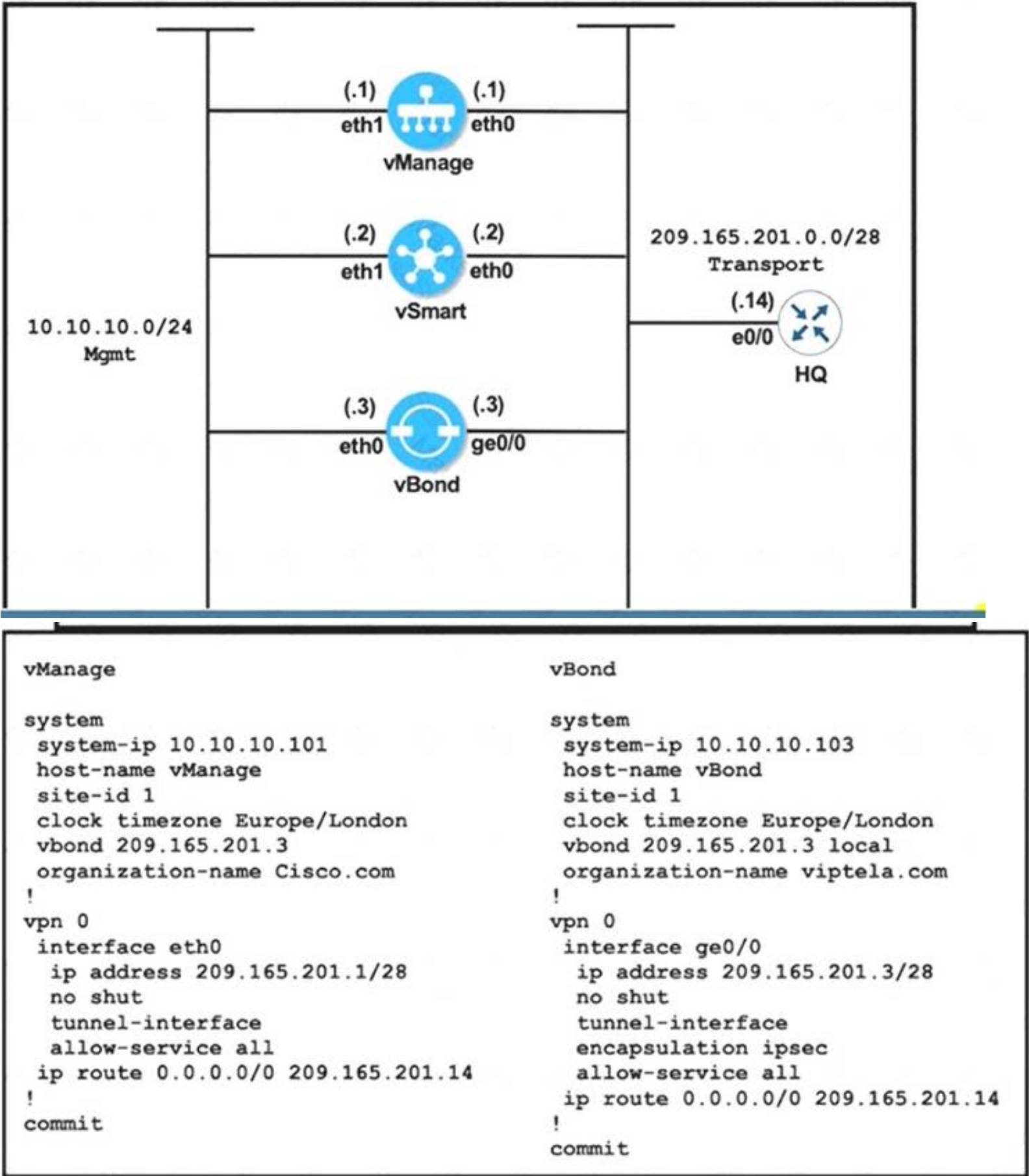


```
sla-class BULK_DATA
loss 15
latency 100
jitter 100
!
sla-class TRANSACTIONAL_DATA
loss 10
latency 300
jitter 100
!
```

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

Answer: A

NEW QUESTION 37  
Refer to the exhibit



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 vipteta.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 41**

What are the two impacts of losing vManage connectivity to fabric in the Cisco SD-WAN network? (Choose two)

- A. Policy changes propagation stops
- B. Statistics collection stops
- C. BFD peering between WAN Edge devices are unestablished
- D. Creation of templates is impossible
- E. IPsec tunnels tear down for WAN Edge devices.

**Answer:** AB

**NEW QUESTION 45**

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 48**

Which component is used for stateful inspection of TCP, UDP, and ICMP flows in Cisco SD-WAN firewall policies?

- A. zones
- B. sites
- C. subnets
- D. interfaces

**Answer:** A

**NEW QUESTION 53**

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 56

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 61

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 62

What is the default value for the number of paths advertised per prefix in the OMP feature template?

- A. 4
- B. 8
- C. 12
- D. 16

**Answer: C**

#### NEW QUESTION 67

Which protocol detects path status (up/down), measures loss/latency/jitter, and measures the quality of the IPsec tunnel MTU?

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

**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 74

Which protocol advertises WAN edge routes on the service side?

- A. EIGRP
- B. OSPF
- C. BGP
- D. ISIS

**Answer: B**

**NEW QUESTION 78**

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

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

**Answer:** D

**NEW QUESTION 79**

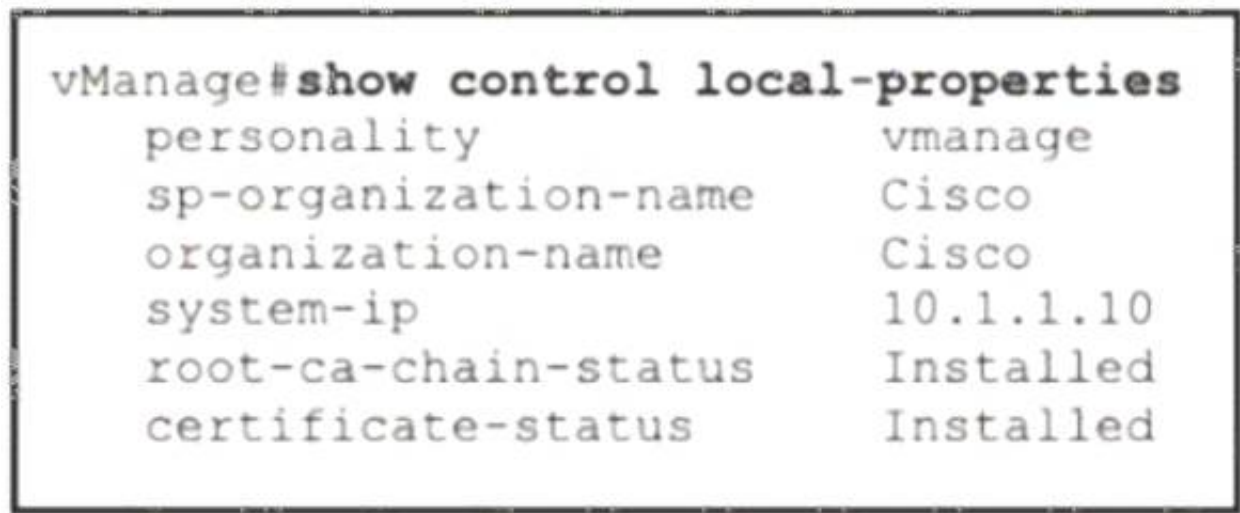
What prohibits deleting a VNF image from the software repository?

- 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 80**

Refer to the exhibit



A vBond controller was added to the controller list with the same Enterprise Root CA certificate as vManage. The two controllers can reach each other via VPNO and share the same organization name, but the control connection is not initiated- Which action resolves the issue?

- A. Synchronize the WAN Edge list on vManage with controllers.
- B. Configure NTP on both controllers to establish a connection.
- C. Configure a valid system IP on the vBond controller.
- D. Configure a valid vBond IP on vManage.

**Answer:** D

**NEW QUESTION 83**

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

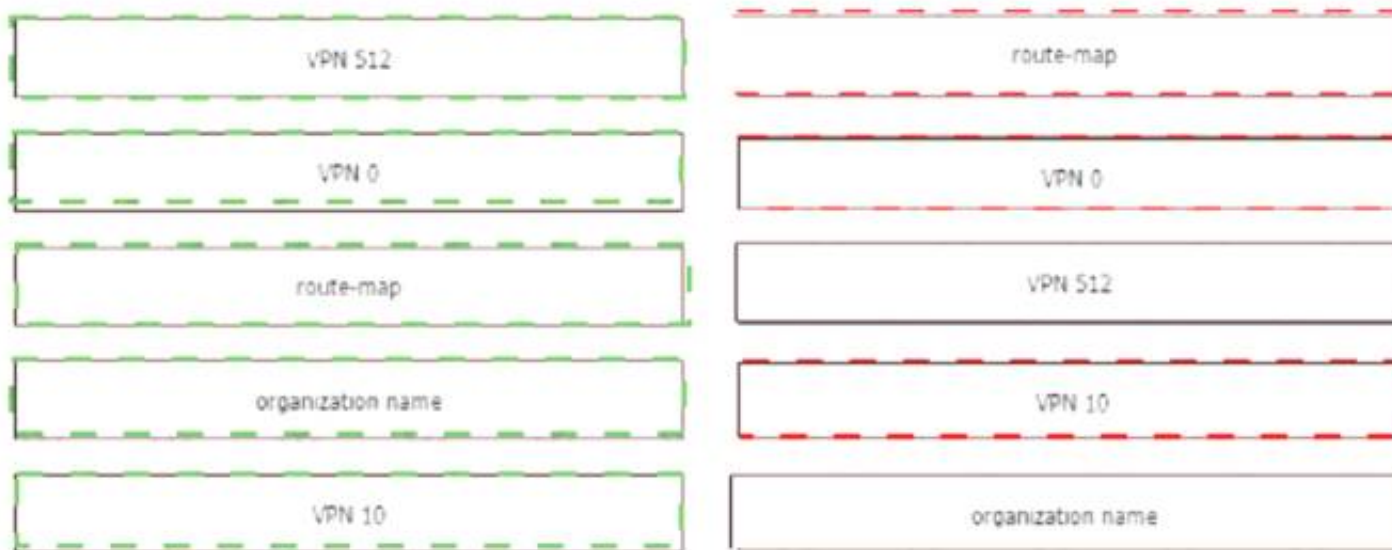
VPN 512	routing policy
VPN 0	transport VPN
route-map	management VPN
organization name	service VPN
VPN 10	system information

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

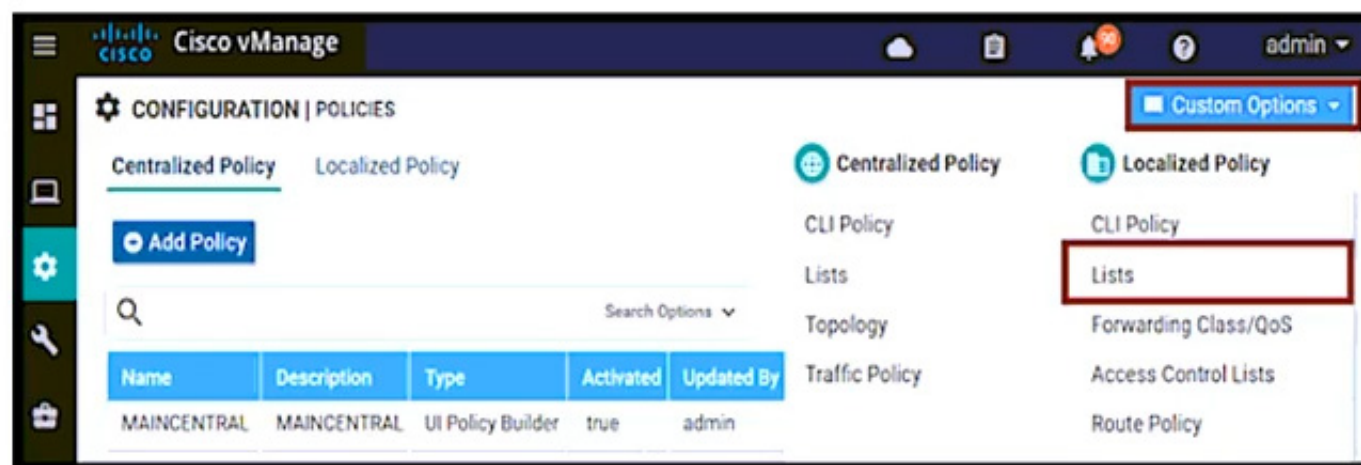




#### NEW QUESTION 84

Which configuration defines the groups of interest before creation of the access list or route map?

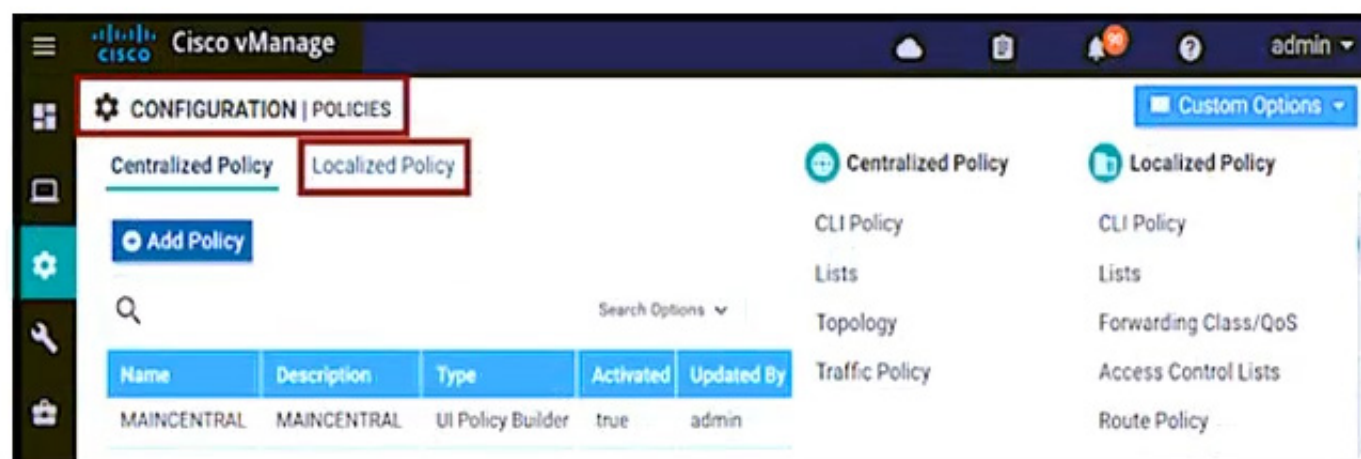
A)



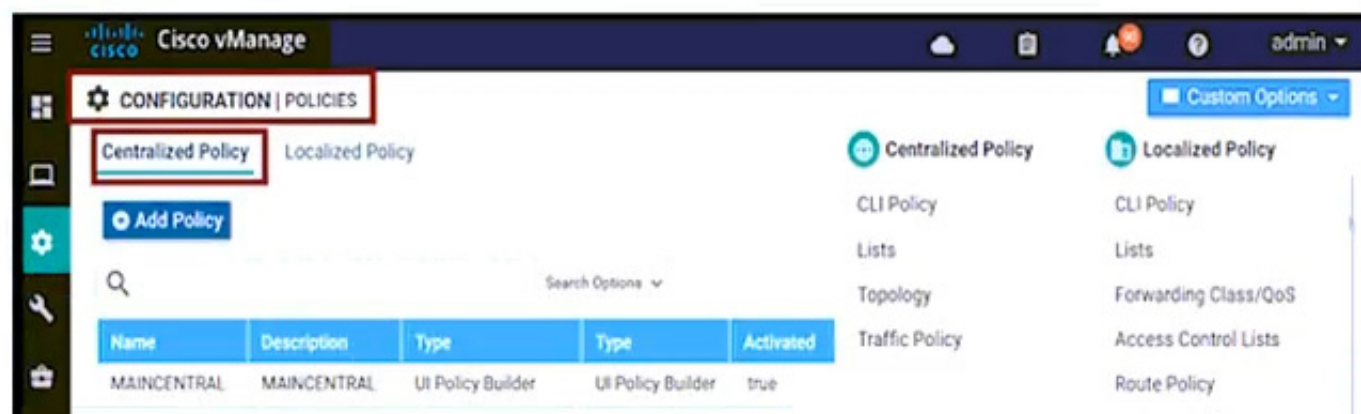
B)



C)



D.





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



Answer: A


NEW QUESTION 85  
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-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 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?

```
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)

Step1: Generate the RootCA Certificate

```
vManage:~$openssl req -x509 -new -nodes -key ROOTCA.key -
sha256 -days 2000 \
  -subj "/C=UK/ST=ENG/L=London/O=XYZ/CN= SDWAN.lab " \
  -out ROOTCA.pem
```

Step2: Install the RootCA Certificate

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

Step1: Generate the RootCA Certificate

```
vManage#openssl req -x509 -new -nodes -key ROOTCA.key -sha256
-days 2000 \
  -subj "/C=UK/ST=ENG/L=London/O=ABC/CN= SDWAN.lab " \
  -out ROOTCA.pem
```

Step2: Install the RootCA Certificate

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

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

**Answer: C**

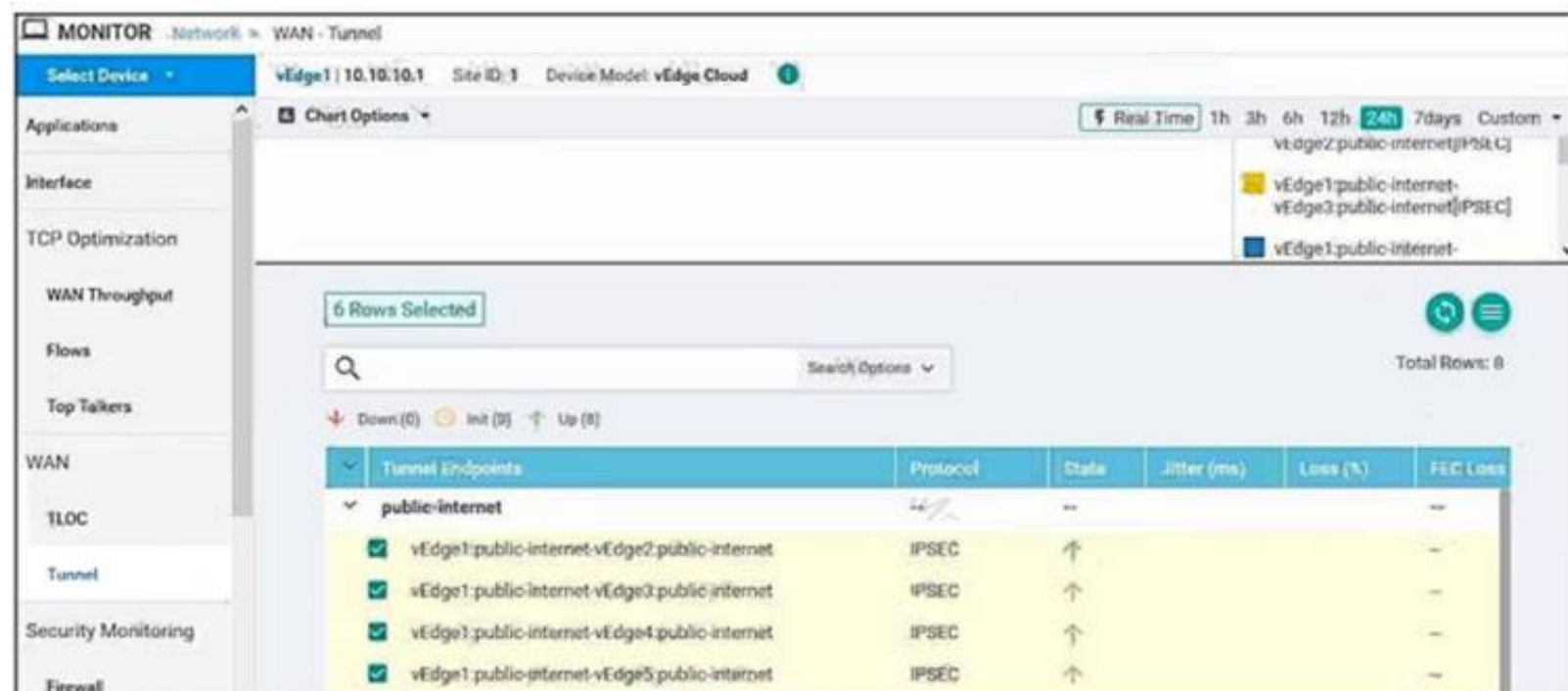
**Explanation:**

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 88

Refer to the exhibit.



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 92

An engineer is configuring the branch office with a 172.16.0.0/16 subnet to use DIA for Internet traffic. All other traffic must flow to the central site or branches using the MPLS circuit Which configuration meets the requirement?

A)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
source-ip 172.16.0.0/16
destination-ip 172.16.0.0/16
!
sequence 2
match
source-data-prefix-list DIA
action accept
nat use-vpn 0
!
default-action accept
```

B)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
source-ip 172.16.0.0/16
action accept
!
sequence 2
match
source-data-prefix-list DIA
action accept
nat use-vpn 0
!
default-action accept
```

C)



```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
source-ip 172.16.0.0/16
destination-ip 172.16.0.0/16
action accept
!
sequence 2
match
source-data-prefix-list DIA
action accept
nat use-vpn 0
!
default-action accept
```

D)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
source-ip 172.16.0.0/16
destination-ip 172.16.0.0/16
!
sequence 2
match
source-data-prefix-list DIA
action accept
!
default-action accept
```

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

**Answer:** C**NEW QUESTION 95**

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 96**

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 101**

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:

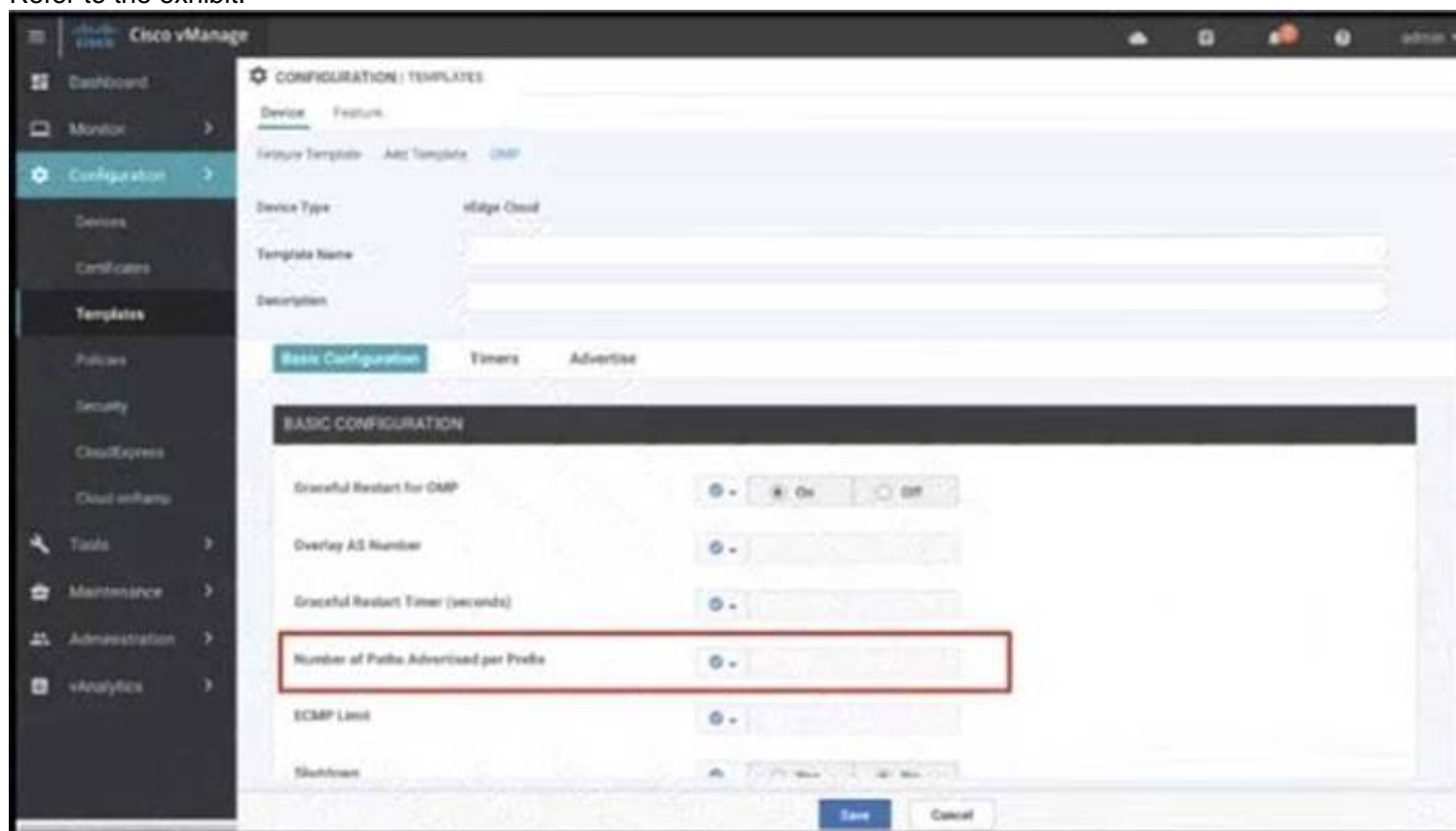
1. Use the same Autonomous System Numbers (ASN) on edge routers of the two datacenters. Because of the same ASN, the AS-PATH attribute will avoid learning the same prefixes on the edge routers that are advertised by the other datacenter towards the LAN side.

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 106

Refer to the exhibit.



A network administrator is configuring OMP in vManage to advertise all the paths for the same prefix from a site that has two WAN Edge devices. Each WAN Edge device is connected to three ISPs and two private MPLS transports. What is the minimum value for 'Number of Paths advertised per Prefix' that should be configured?

- A. 2
- B. 3
- C. 5
- D. 10

**Answer: D**

#### NEW QUESTION 109

What problem happens on a device with two serial numbers, a unique device identifier (UDI), and secure unique device identifier (SUDI) when an engineer provisions ISR 4000 by PnP using only a UDI?

- A. It encounters spanning tree issues
- B. It faces interface buffer overflow patterns
- C. It encounters redirection problems.
- D. It encounters memory overload problems

**Answer: D**

#### NEW QUESTION 111

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/configuratio](https://www.cisco.com/en/US/docs/switches/lan/catalyst3850/software/release/3.2_0_se/multibook/configuratio)

#### NEW QUESTION 112

How must the application-aware enterprise firewall policies be applied within the same WAN Edge router?

- A. within and between zones
- B. between two VPN tunnels
- C. within zone pair
- D. between two VRFs

**Answer:** C

#### NEW QUESTION 116

An engineer must avoid routing loops on the SD-WAN fabric for routes advertised between data center sites Which BGP loop prevention attribute must be configured on the routers to meet this requirement?

- A. same OMP overlay-as on WAN Edge routers of all data centers
- B. static routing on al WAN Edge routers instead of BGP
- C. same BGP AS between all WAN Edge routers and CE routers
- D. same BGP AS between all CE and PE routers

**Answer:** A

#### NEW QUESTION 121

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 123

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 124

Refer to exhibit.

PEER	PEER	PEER	PEER	SITE	DOMAIN								
INSTANCE	TYPE	PRIVATE	PEER	SYSTEM IP	PUBLIC	ID	PRIVATE IP	LOCAL	REMOTE	REPEAT	REMOTE		
COLOR	STATE	PROTOCOL	ERROR	ERROR	ID	COUNT	DOWNTIME	PORT	PUBLIC IP	PORT	REMOTE		
0	down	wood	utis	0.0.0.0	0	0	192.168.0.231	12346	192.168.0.231	12346	default	ten	
2019-04-01T19:04:32+0200													

An engineer is troubleshooting tear down of control connections even though a valid Certificate Serial Number is entered Which two actions resolve the Issue? (Choose two)

- A. Enter a valid serial number on the controllers for a given device
- B. Remove the duplicate IP in the network.
- C. Enter a valid product ID (model) on the PNP portal
- D. Match the serial number file between the controllers
- E. Restore network reachability for the controller

**Answer:** CD

**Explanation:**

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

**NEW QUESTION 125**

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 129**

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 134**

Which two resource data types are used to collect information for monitoring using REST API in Cisco SD-WAN? (Choose two.)

- A. POST
- B. DELETE
- C. scalar
- D. array
- E. PUT

**Answer:** CD

**NEW QUESTION 136**

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 139**

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 141**

Which plane builds and maintains the network topology and makes decisions on traffic flows?

- A. orchestration
- B. management
- C. control
- D. data

Answer: C

**NEW QUESTION 144**

Drag and drop the steps from the left Into the order on the right to delete a software image for a WAN Edge router starting with Maintenance > Software Upgrade > Device list on vManage.

Click delete available software.	step 1
Click the checkbox next to the WAN Edge device.	step 2
Click WAN Edge in the title bar.	step 3
Select the version to delete and click delete.	step 4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Click delete available software.	Click WAN Edge in the title bar.
Click the checkbox next to the WAN Edge device.	Click the checkbox next to the WAN Edge device.
Click WAN Edge in the title bar.	Click delete available software. 3
Select the version to delete and click delete.	Select the version to delete and click delete.

**NEW QUESTION 148**

What is the threshold to generate a warning alert about CPU or memory usage on a WAN Edge router?

- A. 70 to 85 percent
- B. 70 to 90 percent
- C. 75 to 85 percent
- D. 75 to 90 percent

Answer: C

**NEW QUESTION 149**

Which two actions are necessary to set the Controller Certificate Authorization mode to indicate a root certificate? (Choose two)

- A. Select the Controller Certificate Authorization mode that is recommended by Cisco
- B. Change the organization name of the Cisco SO-WAN fabric.
- C. Upload an SSL certificate to vManape,
- D. Select a private certificate signing authority instead of a public certificate signing authority
- E. Select a validity period from the drop-down menu

Answer: CD

**NEW QUESTION 153**

How is an event monitored and reported for an individual device in the overlay network at site ID:S4300T6E43F36?

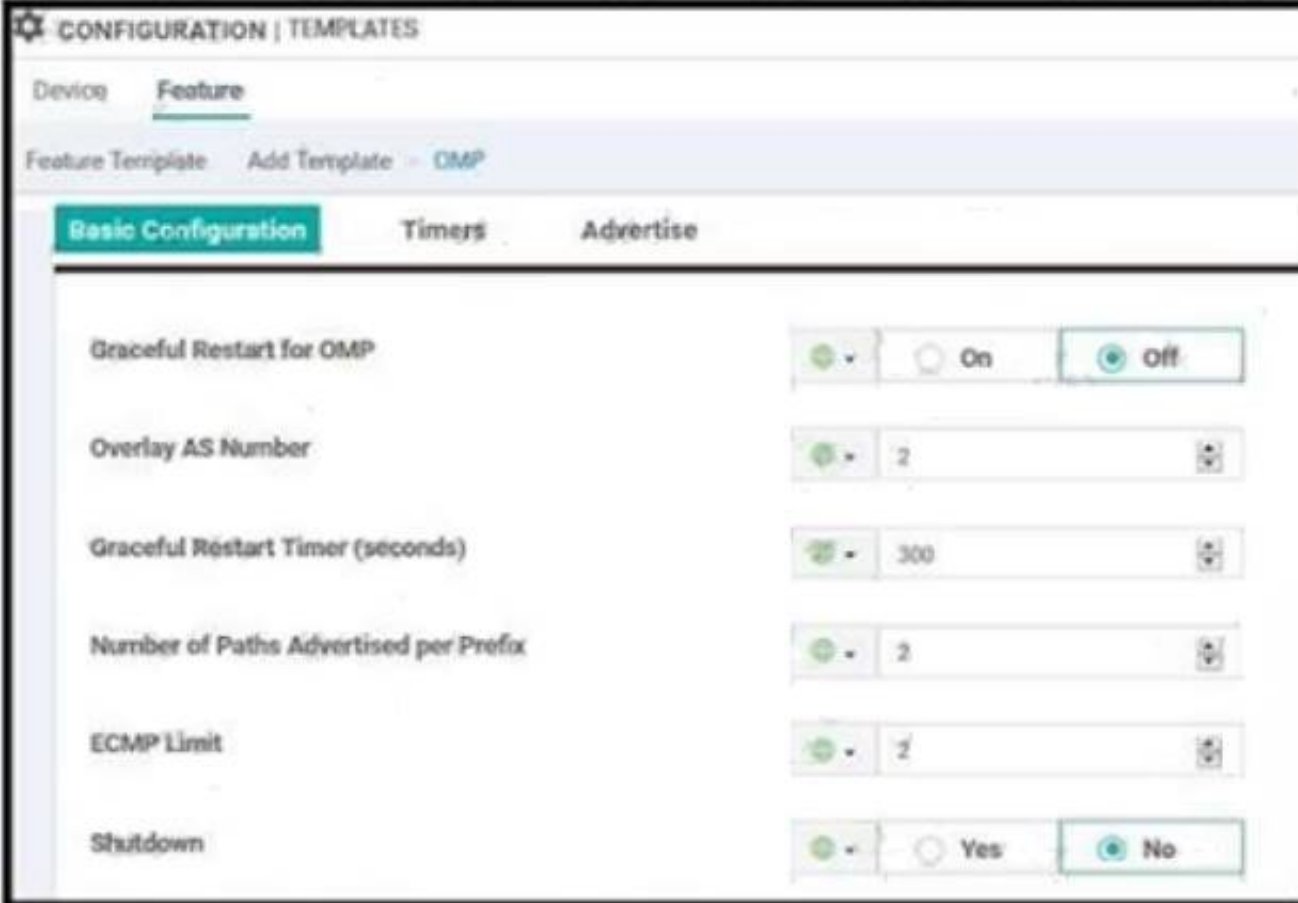
- A. The device sends event notifications to vManage.
- B. The device sends notifications to vSmart that sends them to vManage.
- C. The device sends a critical alarm of events to vManage.
- D. The device sends a critical alarm to vSmart that sends it to vManage.

Answer: A

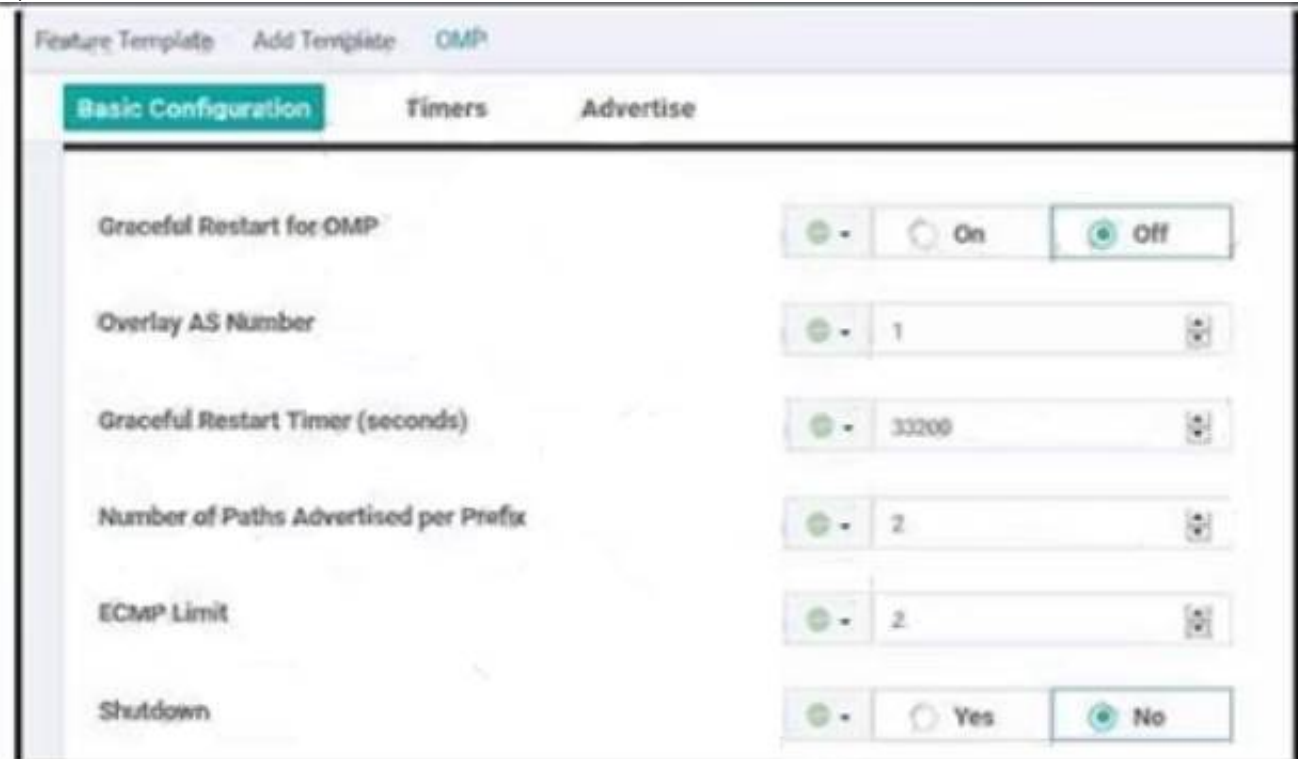
#### NEW QUESTION 158

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)



B)



C)



CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template - OMP

**Basic Configuration** Timers Advertise

Graceful Restart for OMP	<input checked="" type="radio"/> On <input type="radio"/> Off
Overlay AS Number	<input type="text" value="1"/>
Graceful Restart Timer (seconds)	<input type="text" value="43200"/>
Number of Paths Advertised per Prefix	<input type="text" value="2"/>
ECMP Limit	<input type="text" value="2"/>
Shutdown	<input checked="" type="radio"/> Yes <input type="radio"/> No

D)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template - OMP

**Basic Configuration** Timers Advertise

Graceful Restart for OMP	<input checked="" type="radio"/> On <input type="radio"/> Off
Overlay AS Number	<input type="text" value="1"/>
Graceful Restart Timer (seconds)	<input type="text" value="43200"/>
Number of Paths Advertised per Prefix	<input type="text" value="2"/>
ECMP Limit	<input type="text" value="4"/>
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

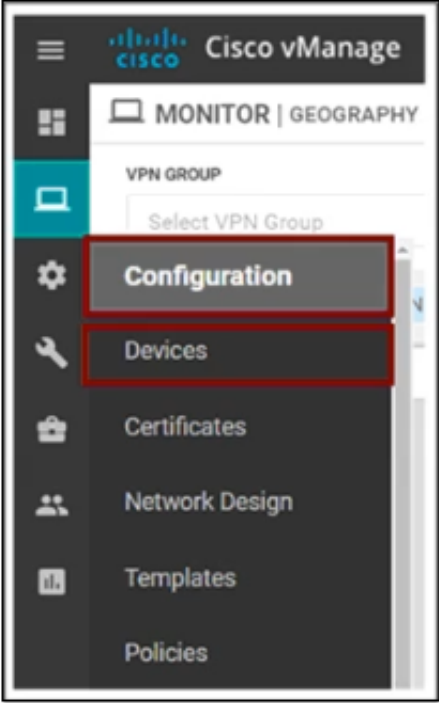
**Answer:** D

#### NEW QUESTION 163

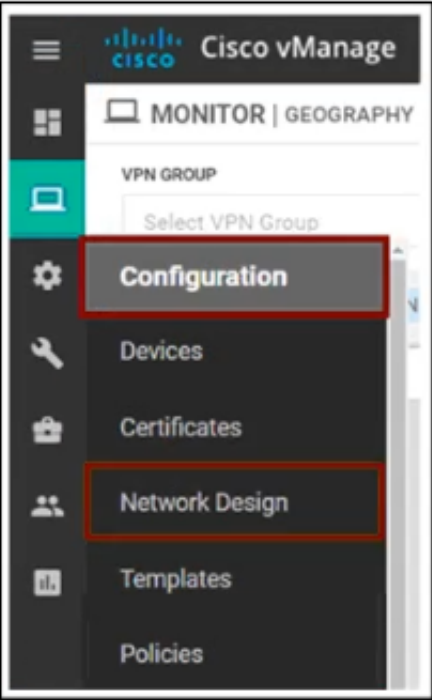
The Cisco SD-WAN engineer is configuring service chaining for a next-generation firewall located at the headquarters. Which configuration creates the service?

A)

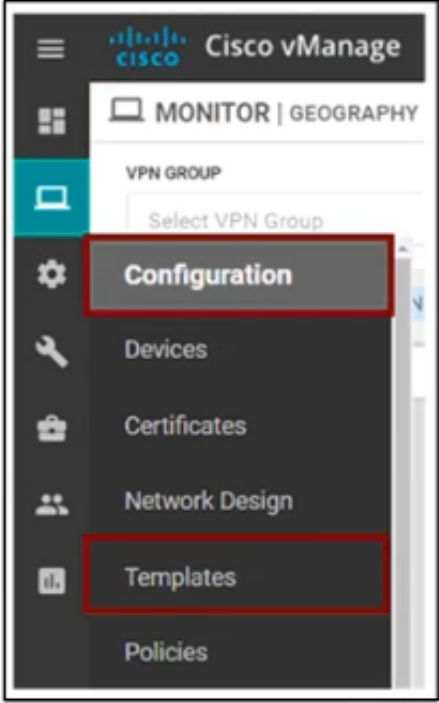




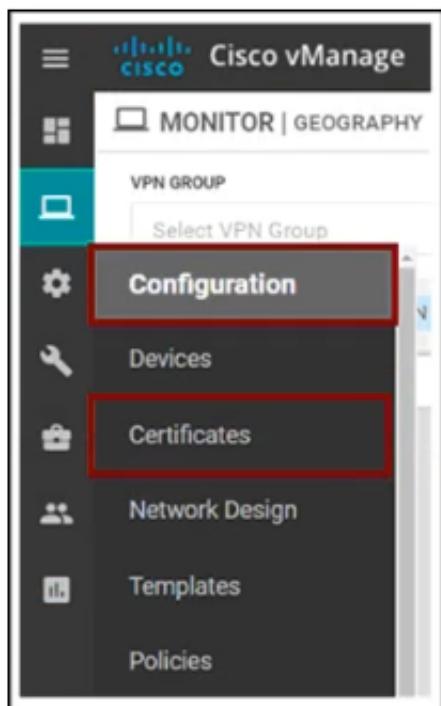
B)



C)



D)



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

**Answer:** C

#### NEW QUESTION 164

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 169

An engineer is troubleshooting a vEdge router and identifies a “DCONFFAIL – 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 170

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 172

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 176

What must an engineer consider when deploying an SD-WAN on-premises architecture based on ESXi hypervisor?

- A. Cisco must provision the backup and snapshots platform for the SD-WAN architecture
- B. The managed service provider must provision controllers with their appropriate certificates
- C. The IT team is required to provision the SD-WAN controllers and is responsible for backups and disaster recovery implementation
- D. The IT team will be given access by Cisco to a vManage for configuration templates and policies

**Answer:** C

#### NEW QUESTION 177

Which feature template configures OMP?

A)

Section	Parameter	Type	Variable/value
Authentication	Authentication Order	Drop-down	local
Local	User/admin/Password	Device Specific	user_admin_passwd

B)

Section	Parameter	Type	Variable/value
Basic configuration	Number of paths advertised per prefix	Global	16
Advertise	Radio	Global	Off
	Static	Global	Off

C)

Section	Parameter	Type	Variable/value
Server	Hostname/IP Address	Global	10.4.48.13
	VPN ID	Global	1
	Source interface	Global	loopback0

D)

Section	Parameter	Type	Variable/value
Basic configuration	VPN	Global	512
	Name	Global	Management VPN
IPv4 Route	Prefix	Global	0.0.0.0/0
	Gateway	Radio button	Next Hop
	Next Hop	Device Specific	vpn512_mgt_next_hop_ip_addr

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

**Answer: B**

#### NEW QUESTION 182

Which two algorithms authenticate a user when configuring SNMPv3 monitoring on a WAN Edge router? (Choose two.)

- A. AES-256
- B. SHA-1
- C. AES-128
- D. MD5
- E. SHA-2

**Answer: AB**

#### Explanation:

Configure SNMPv3

Table 7. Feature History

Feature Name	Release Information	Description
Support for SNMPv3 AES-256 bit Authentication Protocol	Cisco SD-WAN Release 20.5.1	Support introduced for AES-256 bit Authentication Protocol called SHA-256

To configure SNMPv3, in SNMP Version, click **V3**. For SNMPv3, you can configure groups, users, and trap information. Configure groups and trap information as described above.

To configure SNMPv3 users, in the User section, click **Add New User** and enter the following parameters:

Table 8.

Parameter Name	Description
User	Enter a name of the SNMP user. It can be 1 to 32 alphanumeric characters.
Authentication Protocol	<p>Select the authentication mechanism for the user:</p> <ul style="list-style-type: none"> <li>SHA-1 message digest</li> <li>SHA-256 message digest</li> </ul> <p><b>Note</b> Starting from Cisco SD-WAN Release 20.5.1, SHA-256 authentication protocol was introduced. When you choose SHA-256 as the authentication protocol, you must set the security level as authPriv.</p> <p><b>Note</b> MD5 authentication protocol is deprecated for Cisco SD-WAN Release 20.3.2 and later releases.</p>

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/snmp/snmp-book.html>

#### NEW QUESTION 183

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 186

Refer to the exhibit.

```

policy
  policer ccnp
    rate 1000000
    burst 15000
    exceed drop
  !
access-list acl-guest
  sequence 1
  match
    source-ip 172.16.10.0/24
    destination-ip 172.16.20.0/24
    destination-port 20
    protocol 6
  !
  action accept
    policer ccnp
  !
!
default-action drop

```

Which QoS treatment results from this configuration after the access list acl-guest is applied inbound on the vpn1 interface?

- A. A UDP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted
- B. A TCP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped
- C. A UDP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped.
- D. A TCP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted

**Answer: C**

#### NEW QUESTION 191

A customer is receiving routes via OMP from vSmart controller for a specific VPN. The customer must provide access to the W2 loopback received via OMP to the OSPF neighbor on the service-side VPN, which configuration fulfils these requirements?

```

vpn 0
router
  ospf
    redistribute omp route-policy OSPF_Route_Policy
  area 0
    interface ge0/2
    exit
  lists
    prefix-list W2_Loopback
    ip-prefix 10.10.10.5/24
  !
  route-policy OSPF_Route_Policy
  sequence 1
  match
    address W2_Loopback
  !
  default action accept
  set
    metric 100
    metric-type type1

```

```

vpn 0
router
  ospf
    redistribute omp route-policy OSPF_Route_Policy
  area 0
    interface ge0/2
    exit
  lists
    prefix-list W2_Loopback
    ip-prefix 10.10.10.5/32
  !
  route-policy OSPF_Route_Policy
  sequence 1
  match
    address W2_Loopback
  !
  default action accept
  set
    metric 100
    metric-type type1

```



```
vpn 0
router
ospf
 redistribute omp route-policy OSPF_Route_Policy
 area 0
 interface ge0/2
 exit
lists
 prefix-list W2_Loopback
 ip-prefix 10.10.10.5/32
!
 route-policy OSPF_Route_Policy
 sequence 1
 match
  address W2_Loopback
!
 action accept
 set
  metric 100
 metric-type type2

vpn 10
name "" Service VPN 10 ""
router
ospf
 redistribute omp route-policy OSPF_Route_Policy
 area 0
 interface ge0/2
 exit
lists
 prefix-list W2_Loopback
 ip-prefix 10.10.10.5/32
!
 route-policy OSPF_Route_Policy
 sequence 1
 match
  address W2_Loopback

ospf
 redistribute omp route-policy OSPF_Route_Policy
 area 0
 interface ge0/2
 exit
lists
 prefix-list W2_Loopback
 ip-prefix 10.10.10.5/32
!
 route-policy OSPF_Route_Policy
 sequence 1
 match
  address W2_Loopback
!
 action accept
 set
  metric 100
 metric-type type1
```

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

**Answer:** D

**Explanation:**

Answer must start with VPN 10(service side) & should have metric-type 1 and not with VPN 0 (transport side)

**NEW QUESTION 196**

Which table is used by the vSmart controller to maintain service routes of the WAN Edge routers in the hub and local branches?

- A. RIB
- B. FIB
- C. OMP
- D. TLOC

**Answer:** C

**NEW QUESTION 201**

What is the default value for the Multiplier field of the BFD basic configuration in vManage?

- A. 3
- B. 4
- C. 5
- D. 6

**Answer:** D

**NEW QUESTION 202**

Which alarm setting is configured to monitor serious events that affect but do not shut down, the operation of a network function?

- A. Minor
- B. Major
- C. Medium
- D. Critical

**Answer:** B

**NEW QUESTION 207**

What is the purpose of “vpn 0” in the configuration template when onboarding a WAN edge node?

- A. It carries control traffic over secure DTLS or TLS connections between vSmart controllers and vEdge routers, and between vSmart and vBond
- B. It carries control out-of-band network management traffic among the Viptela devices in the overlay network.
- C. It carries control traffic over secure IPsec connections between vSmart controllers and vEdge routers, and between vSmart and vManager

D. It carries control traffic over secure IPsec connections between vSmart controllers and vEdge routers, and between vSmart and vBond

**Answer:** A

**Explanation:**

- VPN 0 is the transport VPN. It carries control traffic over secure DTLS or TLS connections between vSmart controllers and vEdge routers, and between vSmart controllers and vBond orchestrators. Initially, VPN 0 contains all a device's interfaces except for the management interface, and all the interfaces are disabled. For the control plane to establish itself so that the overlay network can function, you must configure WAN transport interfaces in VPN 0.

#### NEW QUESTION 210

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

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

**Answer:** D

#### NEW QUESTION 215

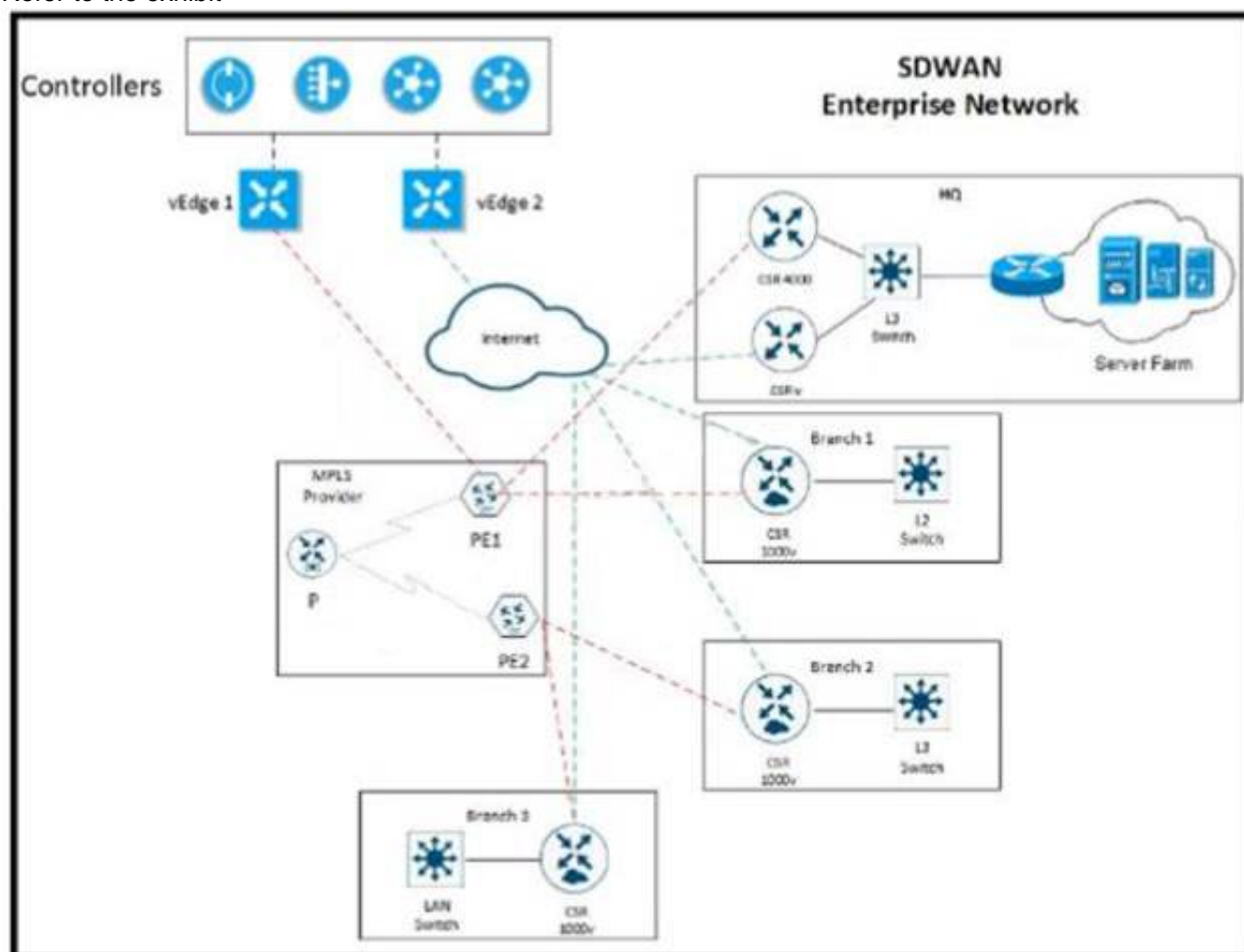
An engineer configured a data policy called ROME-POLICY. Which configuration allows traffic flow from the Rome internal network toward other sites?

- A. apply-policy site-list Rome data-policy ROME-POLICY from-tunnel
- B. apply-policy site-list Rome data-policy ROME-POLICY from-service
- C. site-list Rome control-policy ROME-POLICY in
- D. site-list Rome control-policy ROME-POLICY out

**Answer:** A

#### NEW QUESTION 219

Refer to the exhibit



The network team must configure EI GRP peering at HQ with devices in the service VPN connected to WAN Edge CSRv. CSRv is currently configured with

```
viptela-system:system
device-model      vedge-cloud
host-nam          CSRv
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
```

Which configuration on the WAN Edge meets the requirement?

A)

```
vpn 0
interface ge0/0
description "Internet Circuit"
ip address 209.165.200.229/30
tunnel-interface
 encapsulation ipsec
 color public-internet
 allow-service all

router
 eigrp
  address-family ipv4-unicast
  maximum-path paths 4
  network 10.0.0.0/28
  redistribute omp

vpn 512
interface eth0
shutdown
```

B)

```
vpn 0
interface ge0/0
description "Internet Circuit"
ip address 209.165.200.229/30
tunnel-interface
 encapsulation ipsec
 color public-internet
 allow-service all

router
 eigrp
  address-family ipv4-unicast
  maximum-path paths 4
  network 10.0.0.0/28
  redistribute omp

vpn 512
interface eth0
shutdown
```

C)

```
vpn 0
interface ge0/0
description "Internet Circuit"
ip address 209.165.200.229/30
tunnel-interface
 encapsulation ipsec
 color public-internet
 allow-service all

vpn 1
router
 eigrp
  address-family ipv4-unicast
  maximum-path paths 4
  network 10.0.0.0/28
  redistribute omp

interface ge0/1
ip address 10.0.0.1/28

vpn 512
interface eth0
shutdown
```

D)

```
vpn 0
vpn 1
interface ge0/0
description "Internet Circuit"
ip address 209.165.200.229/30
tunnel-interface
encapsulation ipsec
color public-internet
allow-service all

router
eigrp
address-family ipv4-unicast
maximum-path paths 4
network 10.0.0.0/28
redistribute omp

interface ge0/1
ip address 10.0.0.1/28

vpn 512
interface eth0
shutdown
```

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

Answer: C

NEW QUESTION 222

Which percentage for total memory or total CPU usage for a device is classified as normal in the WAN Edge Health pane?

- A. more than 80 percent usage
- B. less than 70 percent usage
- C. between 70 to 90 percent usage
- D. more than 90 percent usage

Answer: B

NEW QUESTION 226

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)

CONFIGURATION | DEVICES

WAN Edge List

Controllers

Change Mode

Upload WAN Edge List

Export Bootstrap Configuration

Sync Smart Account

Search Options

CONFIGURATION | DEVICES

WAN Edge List

Controllers

Change Mode

Upload WAN Edge List

Export Bootstrap Configuration

Sync Smart Account

Search Options

WAN Edge Cloud Certificate Authorization

Automated

vEdge Cloud:

Automated (vManage - signed recommended)

Manual (Enterprise CA)

Save

Cancel

CONFIGURATION | CERTIFICATES

WAN Edge List

Controllers

Send to Controllers

Search Options

- 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 230**

Drag and drop the security terminologies from the left onto the PCI-compliant network features and devices on the right.

transport security	IPS
perimeter security	zone-based firewall and VPNs
segmentation	IPsec VPN
attack prevention	firewall

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, application Description automatically generated

**NEW QUESTION 234**

What is the main purpose of using TLOC extensions in WAN Edge router configuration?

- A. creates hardware-level transport redundancy at the local site
- B. creates an IPsec tunnel from WAN Edge to vBond Orchestrator
- C. transports control traffic to a redundant vSmart Controller
- D. transports control traffic w remote-site WAN Edge routers

**Answer:** D

**NEW QUESTION 238**

What is an attribute of TLOC'?

- A. encryption
- B. local preference
- C. tag
- D. service

**Answer:** C

**NEW QUESTION 241**

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_syncddb.log
-rw----- 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 logs**Viptela(config-logs)# **audit-disable**Viptela(config-logs)# **netconf-disable**

**NEW QUESTION 245**

An enterprise is continuously adding new sites to its Cisco SD-WAN network. It must configure any cached routes flushed when OMP peers have lost adjacency. Which configuration allows the cached OMP routes to be flushed after every 24 hours from its routing table?

A)

Basic Configuration

Timers

Advertise

Graceful Restart for OMP

On

Off

Overlay AS Number

24

Graceful Restart Timer (seconds)

43200

Number of Paths Advertised per Prefix

4

ECMP Limit

4

Shutdown

Yes

No

B)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On <input type="radio"/> Off	
Overlay AS Number	1	
Graceful Restart Timer (seconds)	86400	
Number of Paths Advertised per Prefix	3	
ECMP Limit	4	
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No	

C)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On <input type="radio"/> Off	
Overlay AS Number	24	
Graceful Restart Timer (seconds)	600000	
Number of Paths Advertised per Prefix	2	
ECMP Limit	2	
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No	

D)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On <input type="radio"/> Off	
Overlay AS Number	24	
Graceful Restart Timer (seconds)	43200	
Number of Paths Advertised per Prefix	2	
ECMP Limit	2	
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No	

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

Answer: B

#### NEW QUESTION 246

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 247

An enterprise deployed a Cisco SD-WAN solution with hub-and-spoke topology using MPLS as the preferred network over the Internet. A network engineer must implement an application-aware routing policy to allow ICMP traffic to be load-balanced over both the available links. Which configuration meets the requirement?

A)  
  
app-route-policy \_VPN\_10\_AAR  
vpn-list VPN\_50  
sequence 21  
match  
app-list ICMP  
source-ip 0.0.0.0/0  
!  
action  
sla-class ICMP\_SLA preferred-color public-internet  
sla-class ICMP\_SLA preferred-color mpls

B)  
  
app-route-policy \_VPN\_10\_AAR  
vpn-list VPN\_50  
sequence 21  
match  
app-list ICMP  
source-ip 0.0.0.0/0  
!  
action  
sla-class ICMP\_SLA

C)  
  
app-route-policy \_VPN\_10\_AAR  
vpn-list VPN\_50  
sequence 21  
match  
app-list ICMP  
source-ip 0.0.0.0/0  
!  
action  
sla-class ICMP\_SLA preferred-color mpls  
backup-sla-preferred-color public-internet

D)



```
app-route-policy _VPN_10_AAR
vpn-list VPN_50
sequence 21
match
app-list ICMP
source-ip 0.0.0.0/0
!
action
sla-class ICMP_SLA preferred-color mpis public-internet
```

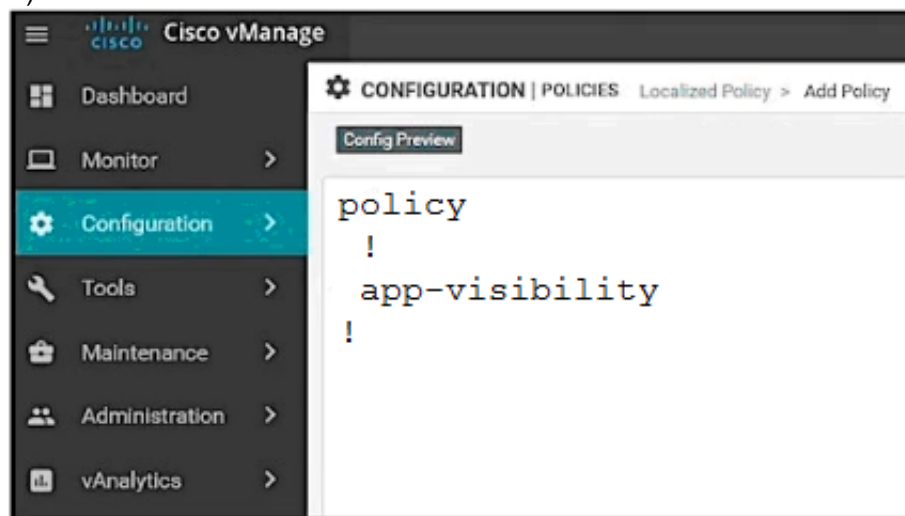
- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

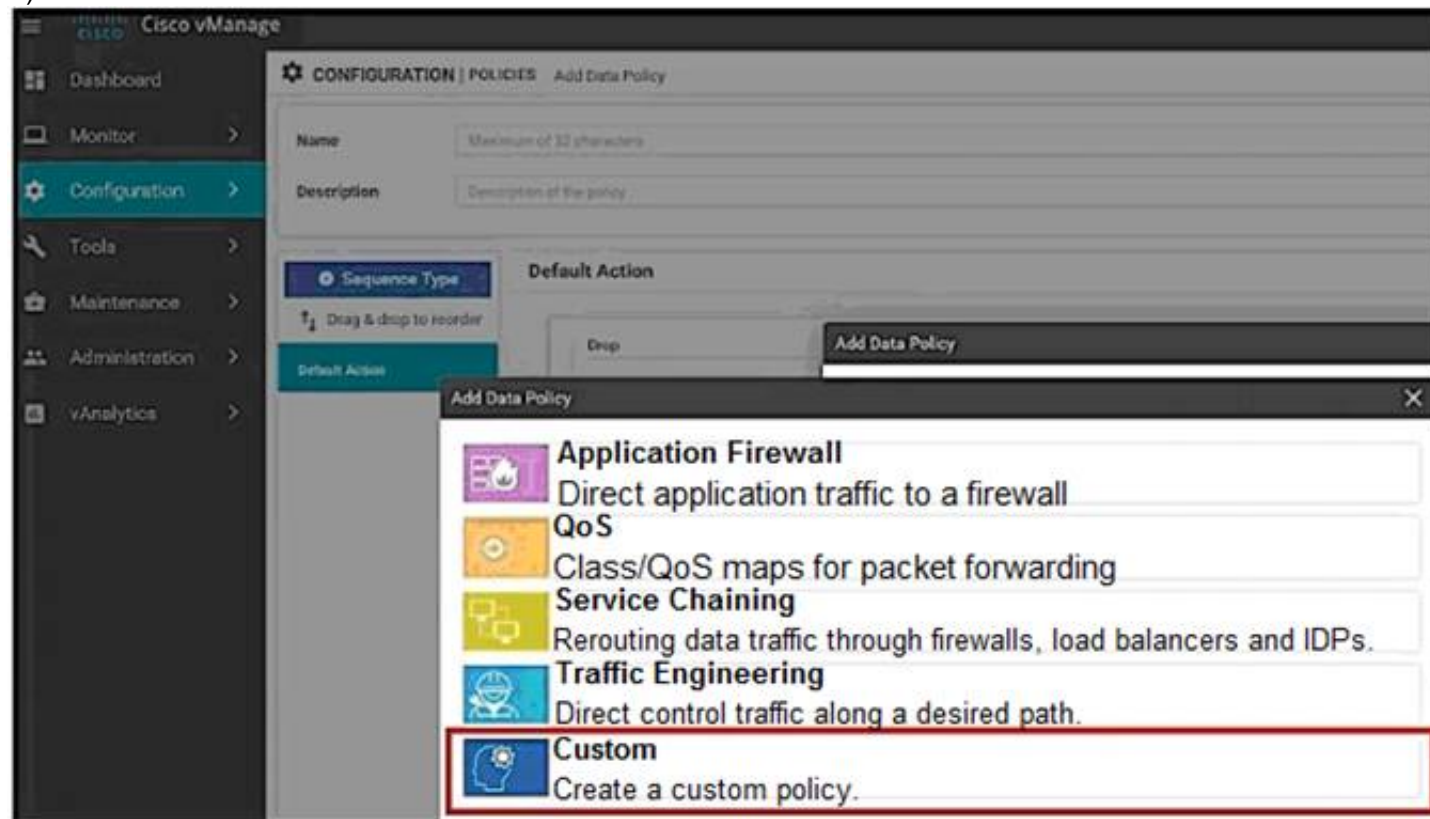
#### NEW QUESTION 251

An organization wants to discover, monitor, and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?

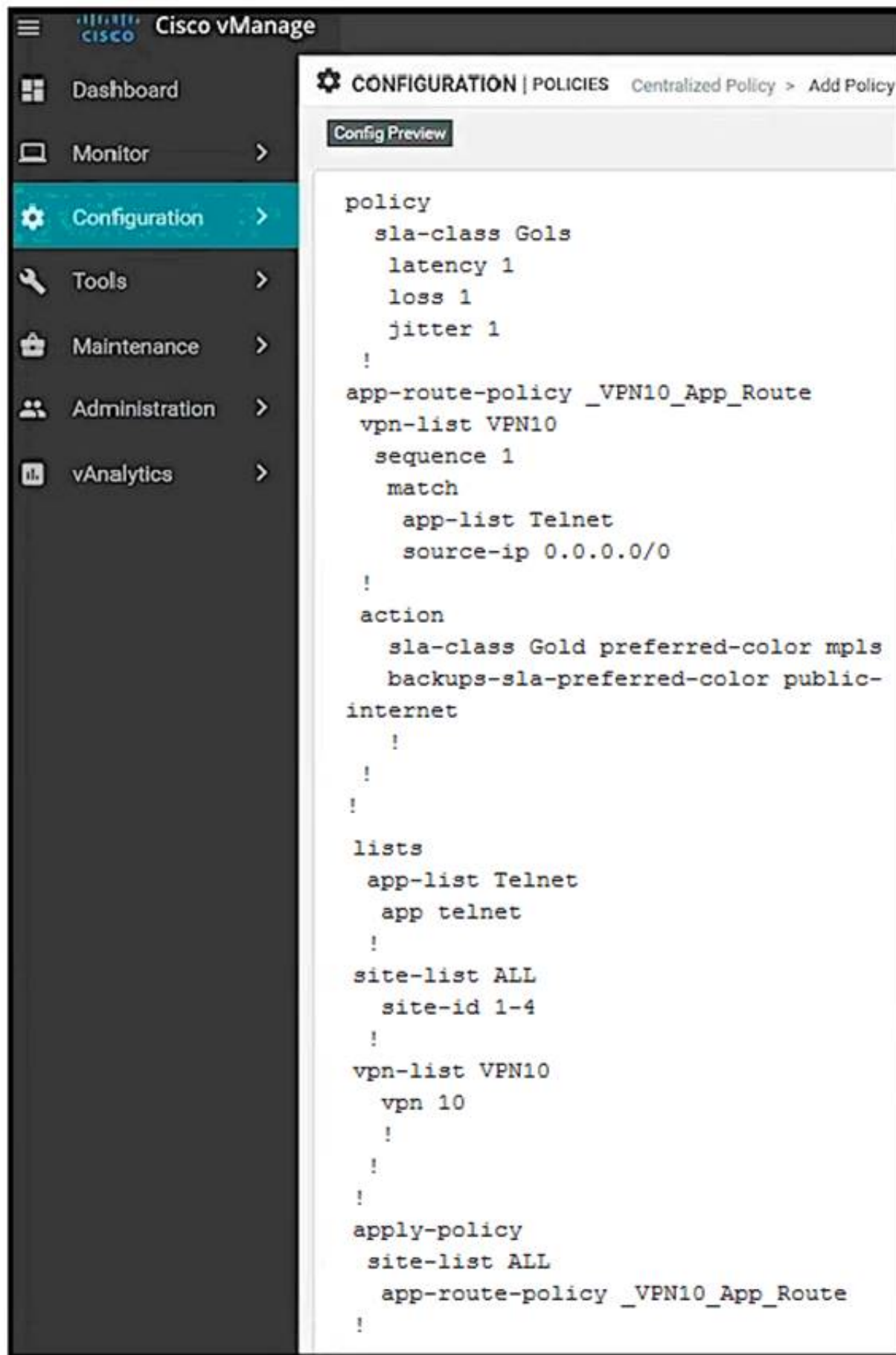
A)



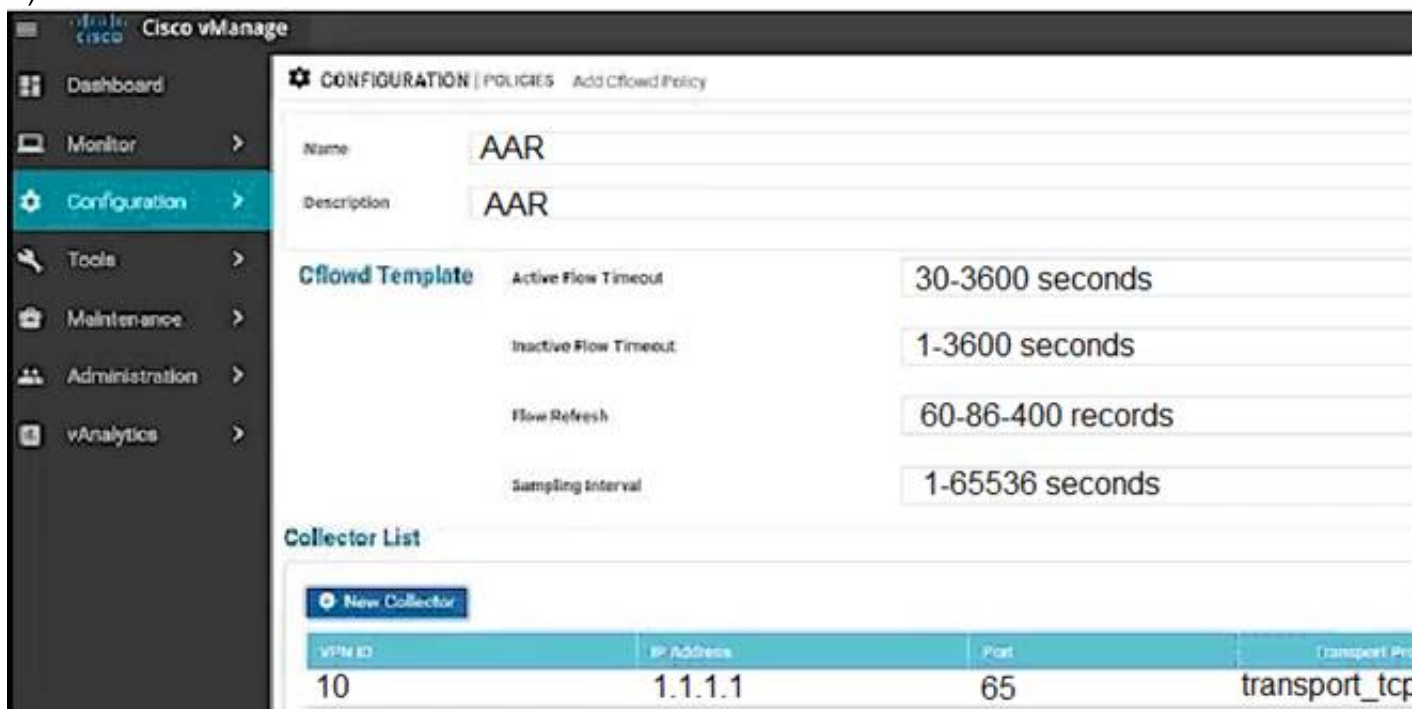
B)



C)



D)



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

**Answer: D**

#### NEW QUESTION 252

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 254

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 256

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 260

Which protocol is used to propagate multicast join requests over the Cisco SD-WAN fabric?

- A. ARP
- B. Auto-RP
- C. OMP
- D. IGMP

**Answer:** D

#### NEW QUESTION 264

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 268

Which website allows access to visualize the geography screen from vManager using the internet?

- A. \*.opcnstreetmaps.org
- B. \*.fullstreetmaps.org
- C. \*.callstreelmaps.org
- D. \*.globaistreetmaps.org

**Answer:** A

#### NEW QUESTION 272

A network administrator is creating an OMP feature template from the vManage GUI to be applied to WAN edge routers. Which configuration attribute will avoid the redistribution of the routes back into the OMP from the LAN side?

- A. configure "Number of Paths Advertised per Prefix"
- B. configure "Overlay AS Number"
- C. configure "Send Backup Paths"
- D. configure "ECMP limit"

**Answer:** B

#### Explanation:

If you configure the same **overlay AS number** on multiple vEdge routers in the overlay network, all these routers are considered to be part of the same AS, and as a result, they do not forward any routes that contain the overlay AS number. This mechanism is an additional technique for **preventing BGP routing loops** in the network.

#### NEW QUESTION 273

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 274

What is a benefit of using REST APIs?

- A. predefined automation and orchestration platform for event management and logging
- B. user-defined automation and integration into other orchestration systems or tools
- C. vAnalytics to simplify operational services integration and real-time event monitoring
- D. predefined SD-WAN controller with other platform integration for event management and logging

**Answer:** B

#### NEW QUESTION 279

An engineer must use data prefixes to configure centralized data policies using the vManage policy configuration wizard. What is the first step to accomplish this task?

- A. Create groups of interest
- B. Configure network topology.



- C. Configure traffic rules.
- D. Apply policies to sites and VPNs.

Answer: A

NEW QUESTION 280

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 284

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 288

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-extention 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 290

Refer to the exhibit

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT	PEER PUBLIC IP	PEER PUBLIC PORT	LOCAL COLOR	STATE	LOCAL/REMOTE	REPEAT COUNT
vbond	dtls	-	0	0	1.1.10.10	12346	1.1.10.10	12346	mpls	tear_down	CRTRJ5ER NOERR	161
vbond	dtls	-	0	0	1.1.10.10	12346	1.1.10.10	12346	silver	tear_down	CRTRJ5ER NOERR	161
vbond	dtls	-	0	0	1.2.20.20	12346	1.2.20.20	12346	mpls	tear_down	CRTRJ5ER NOERR	160
vbond	dtls	-	0	0	1.2.20.20	12346	1.2.20.20	12346	silver	tear_down	CRTRJ5ER NOERR	160

A WAN Edge device was recently added to vManage but a control connection could not be established Which action resolves this issue?

- A. Rectify the Rod CA certificate mismatch on WAN Edge devices  
B. Install the bootstrap code on WAN Edge and check for CSR  
C. Send the serial number to vBond from the vManage controller.  
D. Resolve the ZTP reachability and rectify smart account credentials issue

**Answer: C**

#### NEW QUESTION 295

Which VPN must be present on at least one interface to install Cisco vManage and integrate it with WAN Edge devices in an overlay network site ID:S4307T7E78F29?

- A. VPN 512  
B. any VPN number selected  
C. services VPN range 0-511  
D. VPNO

**Answer: D**

#### NEW QUESTION 298

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 299

What is the result during a WAN Edge software upgrade process if the version of the WAN Edge software is higher than the one running on a controller device?

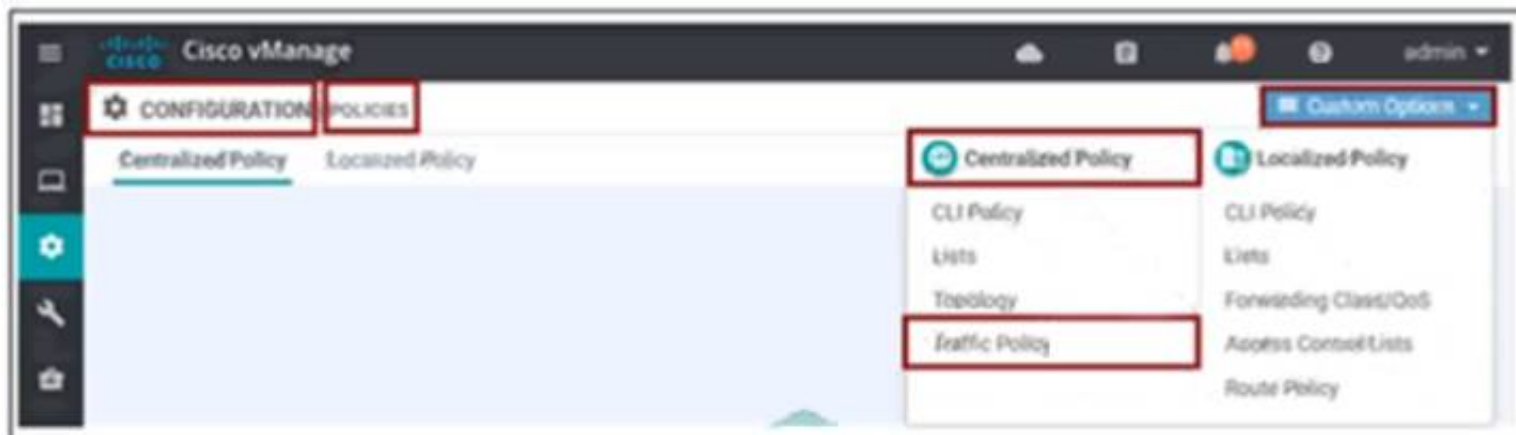
- A. The upgrade button is greyed out
- B. The upgrade proceeds with no warning message.
- C. The upgrade fails with a warning message
- D. The upgrade proceeds with a warning message

**Answer: D**

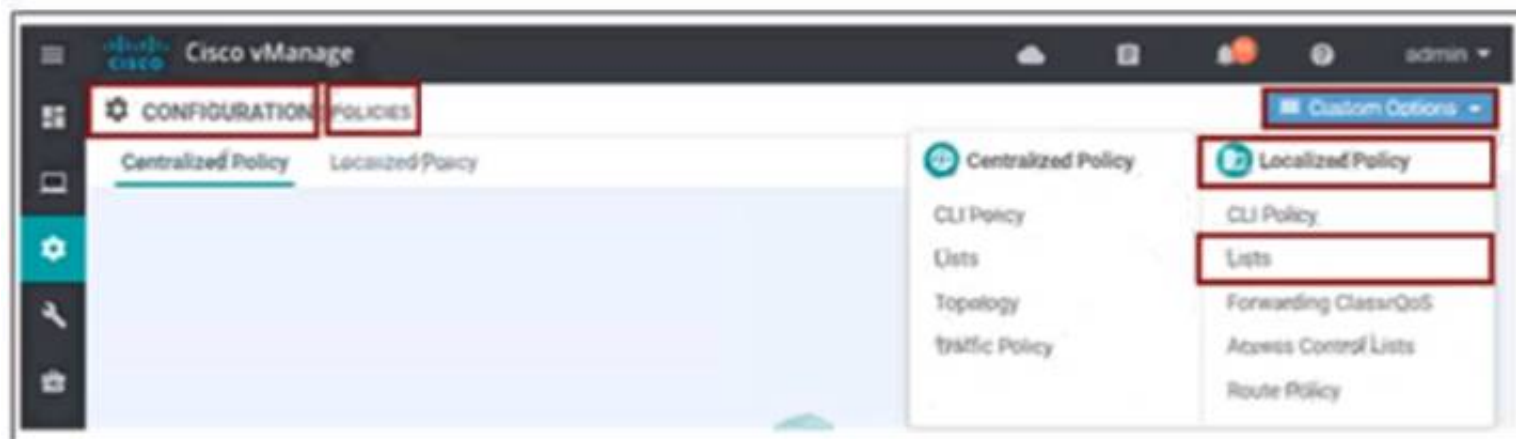
### NEW QUESTION 300

An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

A)

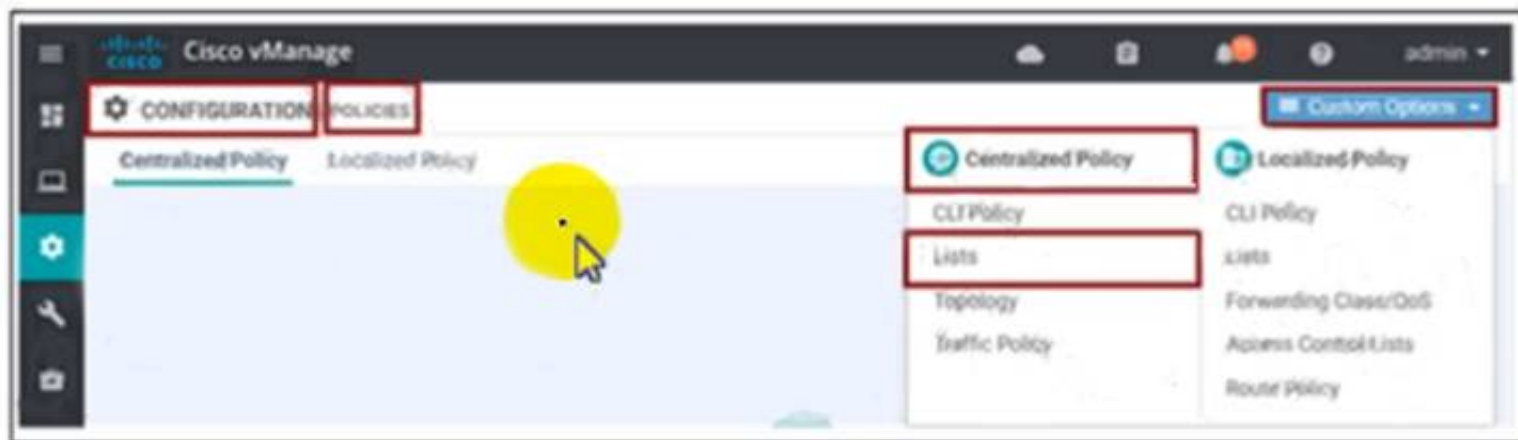


B)

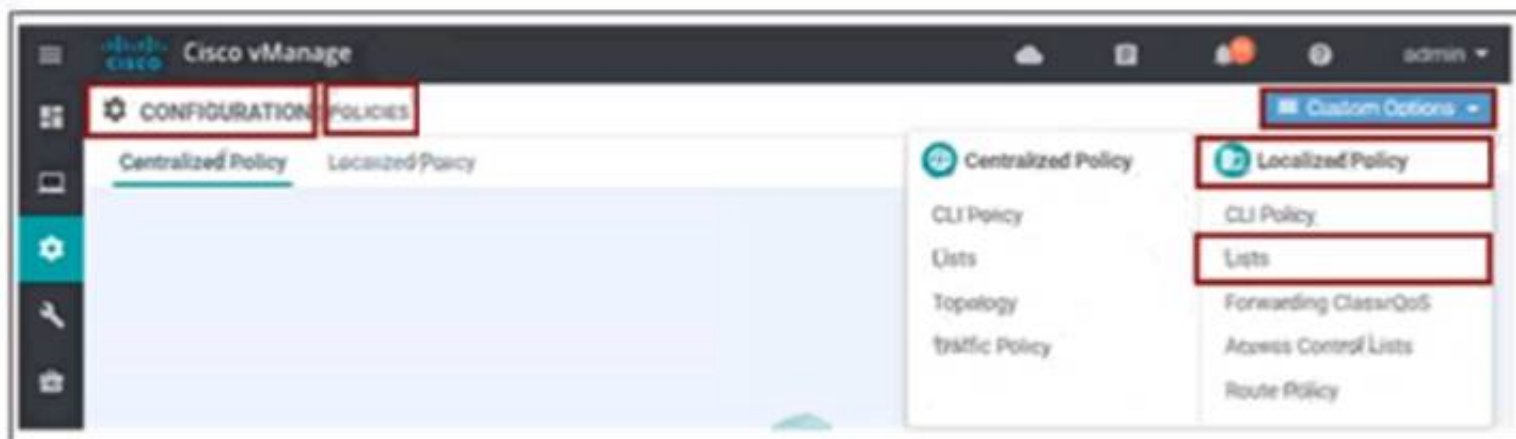


C)





D)



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

**Answer: D**

#### NEW QUESTION 305

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 310

How is the software managed in Cisco SD-WAN?

- A. Software images must be uploaded to vManage through HTTP or FTP
- B. Software downgrades are unsupported for vManage
- C. Software images must be transferred through VPN 512 or VPN 0 of vManage
- D. Software upgrade operation in the group must include vManag
- E. vBond, and vSmart.

**Answer: A**

#### NEW QUESTION 311

A policy is created to influence routing path in the network using a group of prefixes. What policy application will achieve this goal when applied to a site List?

- A. vpn-membership policy
- B. cflowd-template
- C. app-route policy
- D. control-policy

**Answer: D**

#### NEW QUESTION 312

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 313

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**

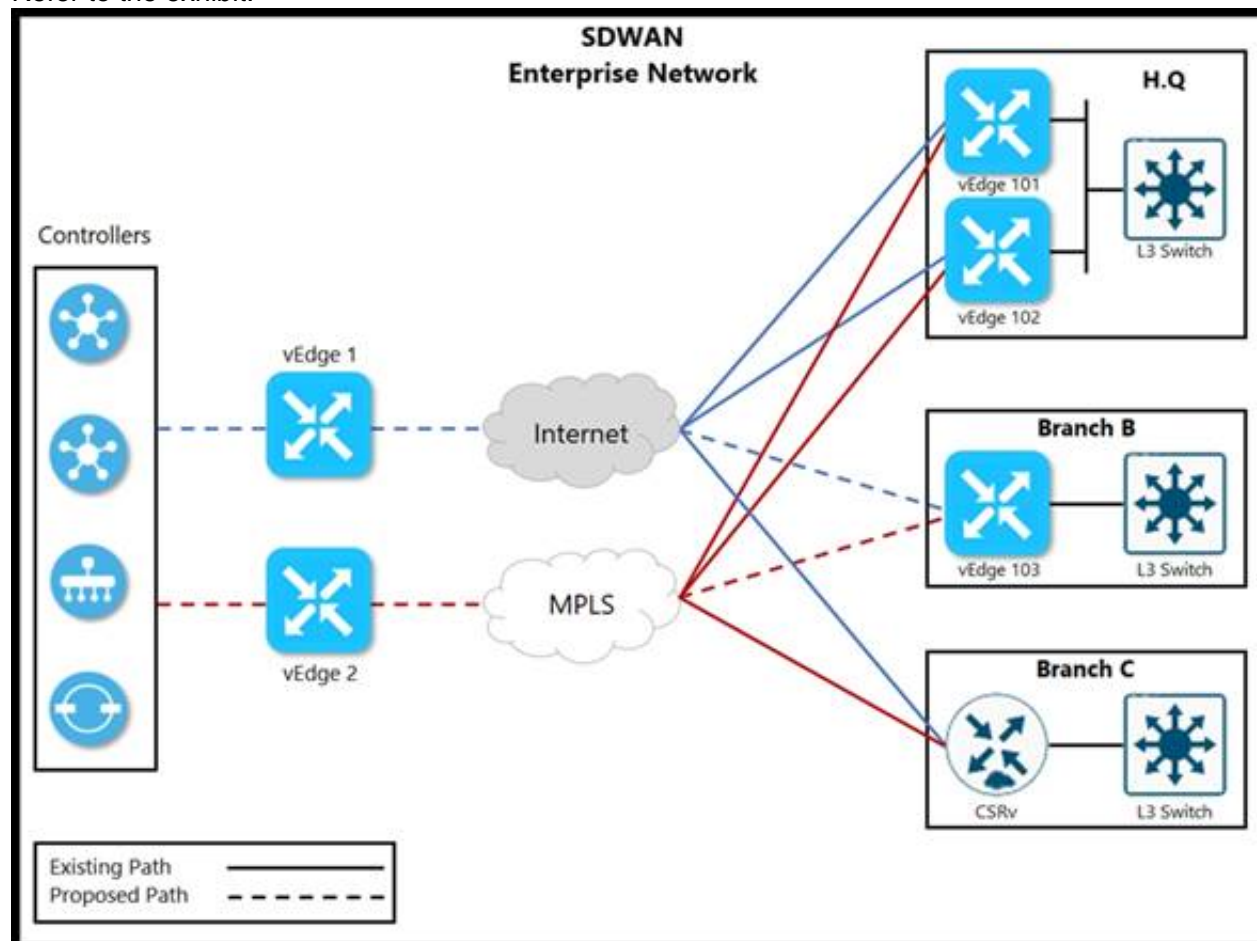
#### Explanation:

##### 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 314

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 316

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 319

Refer to the exhibit.

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT
vsmart	dtls	10.1.1.8	1	0	1.1.1.1	12447
vmanage	dtls	10.1.1.7	1	1	2.2.2.2	12647
vmanage	dtls	10.1.1.7	1	1	2.2.2.2	12867
LOCAL						
LOCAL COLOR	STATE	ERROR	ERROR	UNIT		
gold	up	LISFD	NOERR	45		
gold	up	LISFD	NOERR	70		
gold	up	LISFD	NOERR	69		

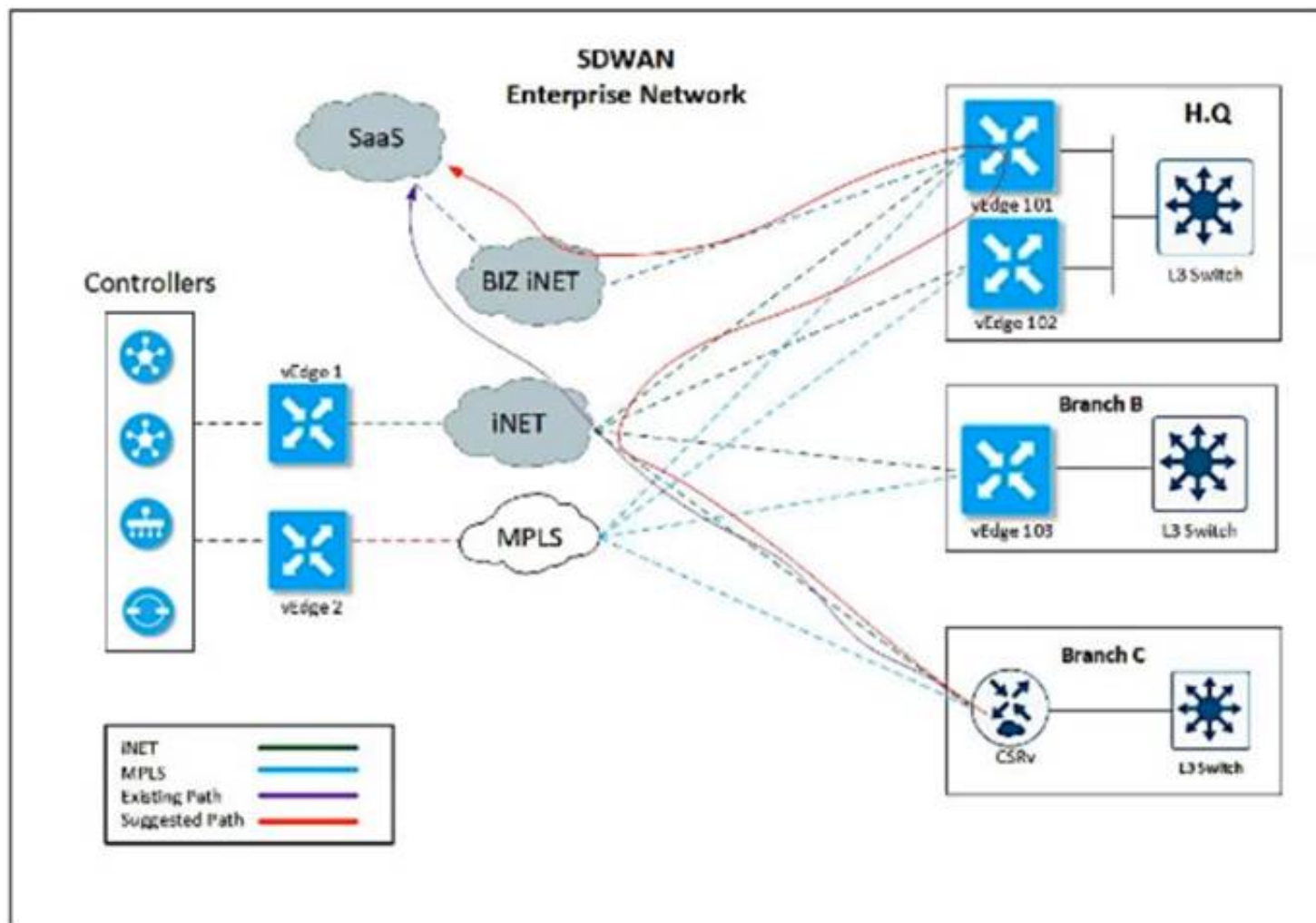
An engineer is troubleshooting a control connection issue on a WAN Edge device that shows socket errors. The packet capture shows some ICMP packets dropped between the two devices. Which action resolves the issue?

- A. Recover the vManage controller that is down in a high availability cluster
- B. Change the system IP or restart the VWN Edge 4 the system IP is changed
- C. Remove IP duplication in the network and configure a unique IP address
- D. Recover vBond or wait for the controller to reload which could be caused by a reset

**Answer: C**

#### NEW QUESTION 324

Refer to the exhibit.



An enterprise decides to use the Cisco SD-WAN Cloud onRamp for SaaS feature and utilize H.Q site Biz iNET to reach SaaS Cloud for branch C. currently reaching SaaS Cloud directly. Which role must be assigned to devices at both sites in vManage Cloud Express for this solution to work?

- A. H.Q to be added as Gateway and Branch as DIA.
- B. Branch to be added as Client Sites and H.Q as DIA.
- C. Branch to be added as DIA and H.Q as Client Site.
- D. H.Q to be added as Gateway and Branch as Client Site.

**Answer: B**

#### NEW QUESTION 328

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 333**

How are policies deployed on cloud-tiosted Cisco SD-WAN controllers?

- A. Policies are created on vSmart and enforced by vSmart
- B. Policies are created on vSmart and enforced by vManage
- C. Policies are created on vManage and enforced by vManage.
- D. Policies are created on vManage and enforced by vSman

**Answer:** A

**NEW QUESTION 334**

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 335**

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

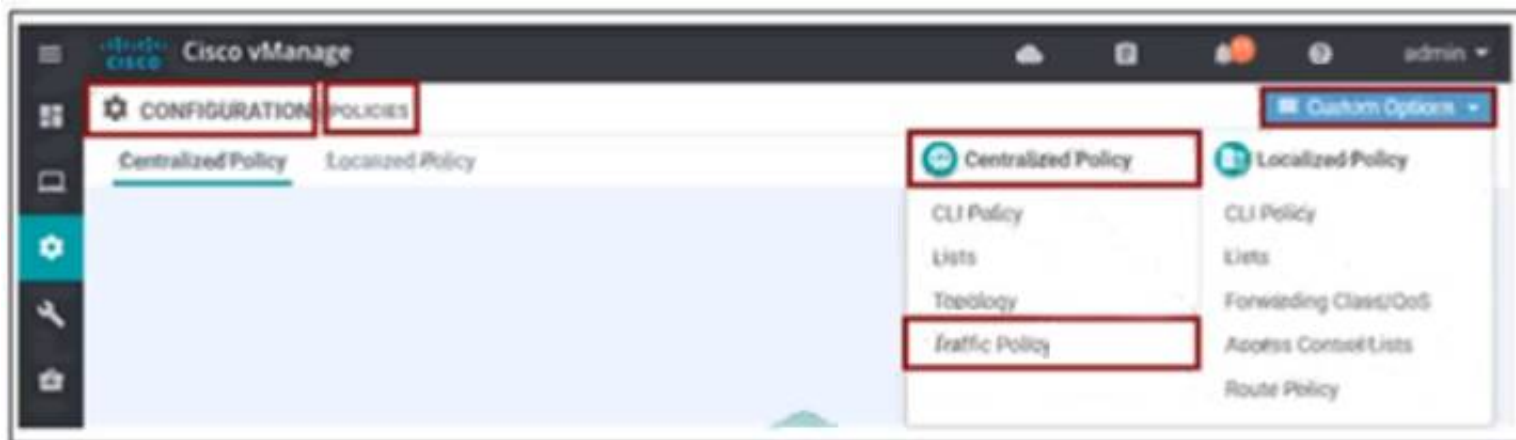
**Explanation:**

[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)

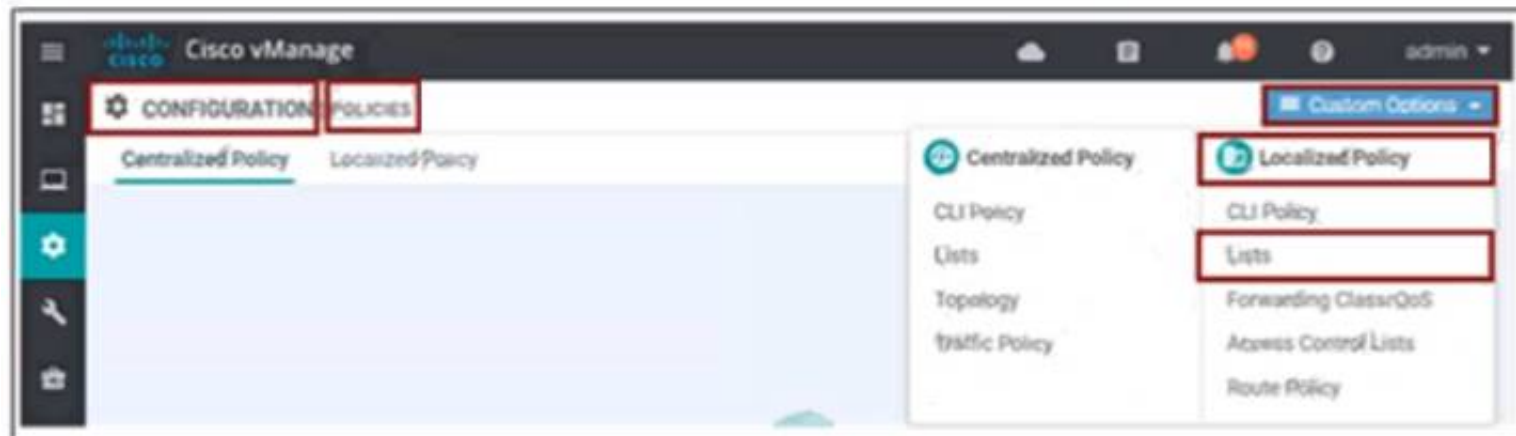
**NEW QUESTION 336**

An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

- A)



B)



C)



D)

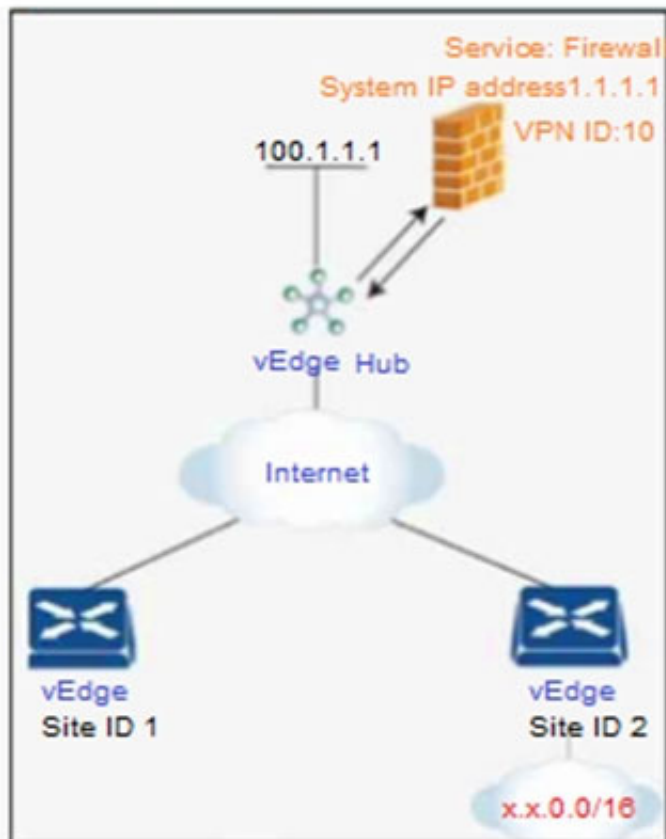


- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

### NEW QUESTION 337

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 339

Which template configures the out-of-band management VPN?

A)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Global	No
	Interface Name	Global	loopback0
IPv4 configuration	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn1_lo0_int_ip_addr/maskbits

B)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Global	No
	Interface Name	Device Specific	vpn512_mgt_int_mgmt0_or_gex/x
	Description	Global	Management Interface
IPv4 configuration	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn512_mgt_int_ip_addr/maskbits

C)

Section	Parameter	Type	Variable/value
Basic configuration	VPN	Global	512
	Name	Global	Management VPN
IPv4 Route	Prefix	Global	0.0.0.0/0
	Gateway	Radio button	Next Hop
	Next Hop	Device Specific	vpn512_mgt_next_hop_ip_addr

D)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Device Specific	vpn1_lan_int2_shutdown
	Interface Name	Device Specific	vpn1_lan_int2_gex/x
IPv4 configuration	Description	Device Specific	vpn1_lan_int2_description
	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn1_lan_int2_ip_addr/maskbits

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

Answer: C

### NEW QUESTION 344

Which two mechanisms are used by vManage to ensure that the certificate serial number of the WAN Edge router that is needed to authenticate is listed in the WAN Edge Authorized Serial Number Hst' (Choose two)

- A. Synchronize to the PnP
- B. Manually upload it to vManage
- C. The devices register to vManage directly as the devices come online
- D. The vManage is shipped with the list



E. Synchronize to the Smart Account

Answer: BE

NEW QUESTION 345

Which SD-WAN component allows an administrator to manage and store software images for SD-WAN network elements?

- A. vGond controllers
- B. WAN Edge routers
- C. vSman controllers
- D. vManage NMS

Answer: D

NEW QUESTION 347

Drag and drop the route verification output from show omp tlocs from the left onto the correct explanations on the right.

shows if the route was chosen to enter the routing table or not	system ID
ENCAPSULATION	attribute of WAN link
COLOR	type of tunnel being used
TLOC IP	TLOC route status

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

shows if the route was chosen to enter the routing table or not	TLOC IP
ENCAPSULATION	COLOR
COLOR	ENCAPSULATION
TLOC IP	shows if the route was chosen to enter the routing table or not

NEW QUESTION 352

A policy is created to influence routing in the network using a group of prefixes. What policy application will achieve this goal when applied to a site list?

- A. Vpn-membership policy
- B. Control-policy
- C. cflowd-template
- D. App-route policy

Answer: B

Explanation:

Control policy, which is similar to standard routing policy, operates on routes and routing information in the control plane of the overlay network. Centralized control policy, which is provisioned on the Cisco vSmart Controller, is the Cisco SD-WAN technique for customizing network-wide routing decisions that determine or influence routing paths through the overlay network. Local control policy, which is provisioned on a Cisco vEdge device, allows customization of routing decisions

NEW QUESTION 353

Which multicast component is irrelevant when defining a multicast replicator outside the local network without any multicast sources or receivers?

- A. PIM interfaces
- B. TLOC
- C. overlay BFD
- D. OMP

Answer: A

**NEW QUESTION 354**

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 357**

Refer to the exhibit

PEER PRIVATE IP	PEER PRIVATE PORT	PEER PUBLIC IP	PEER PUBLIC PORT	REMOTE COLOR	STATE	LOCAL ERROR
10.0.2.73	23456	10.0.2.73	23456	default	trying	DCONFALL

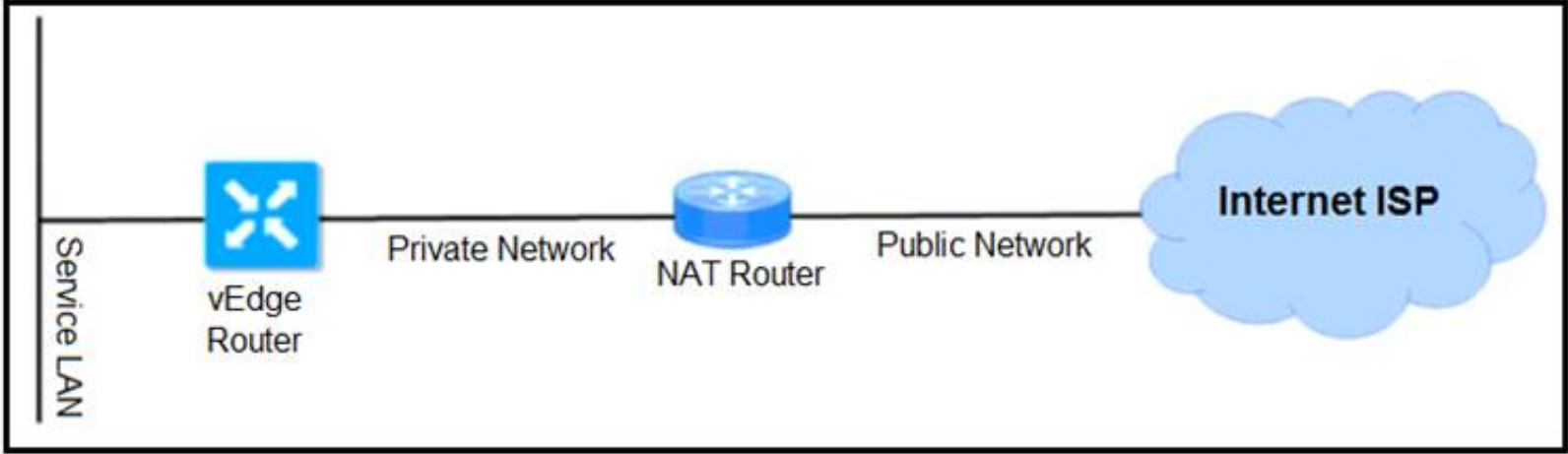
Cisco SD-WAN is deployed with controllers hosted in a data center All branches have WAN Edge devices with dual connections to the data center one via Internet and the other using MPLS Three branches out of 20 have issues with their control connections on MPLS circuit The local error refers to Control Connection Failure Which action resolves the issue\*?

- A. Rectify any issues with the underlay routing configuration
- B. Match the TLOC color on the controllers and all WAN Edge devices
- C. Match certificates for the DTLS connection and Root CA must be installed first on WAN Edge devices
- D. Update the system IP on vManage and then resend it to the controllers

**Answer:** A

**NEW QUESTION 358**

Refer to the exhibit



Which NAT types must the engineer configure for the vEdge router to bring up the data plane tunnels?

- A. Enable Full Cone NAT on the vEdge interface
- B. Use public color on the TLOC
- C. Use private color on the TLOC
- D. Enable Symmetric MAT on the vEdge interface

**Answer:** A

**NEW QUESTION 360**

What happens if the intelligent proxy is unreachable in the Cisco SD-WAN network?

- A. The grey-listed domains are unresolved
- B. The Cisco Umbrella Connector locally resolves the DNS request
- C. The block-listed domains are unresolved
- D. The Cisco Umbrella Connector temporarily redirects HTTPS traffic

**Answer:** A

#### NEW QUESTION 364

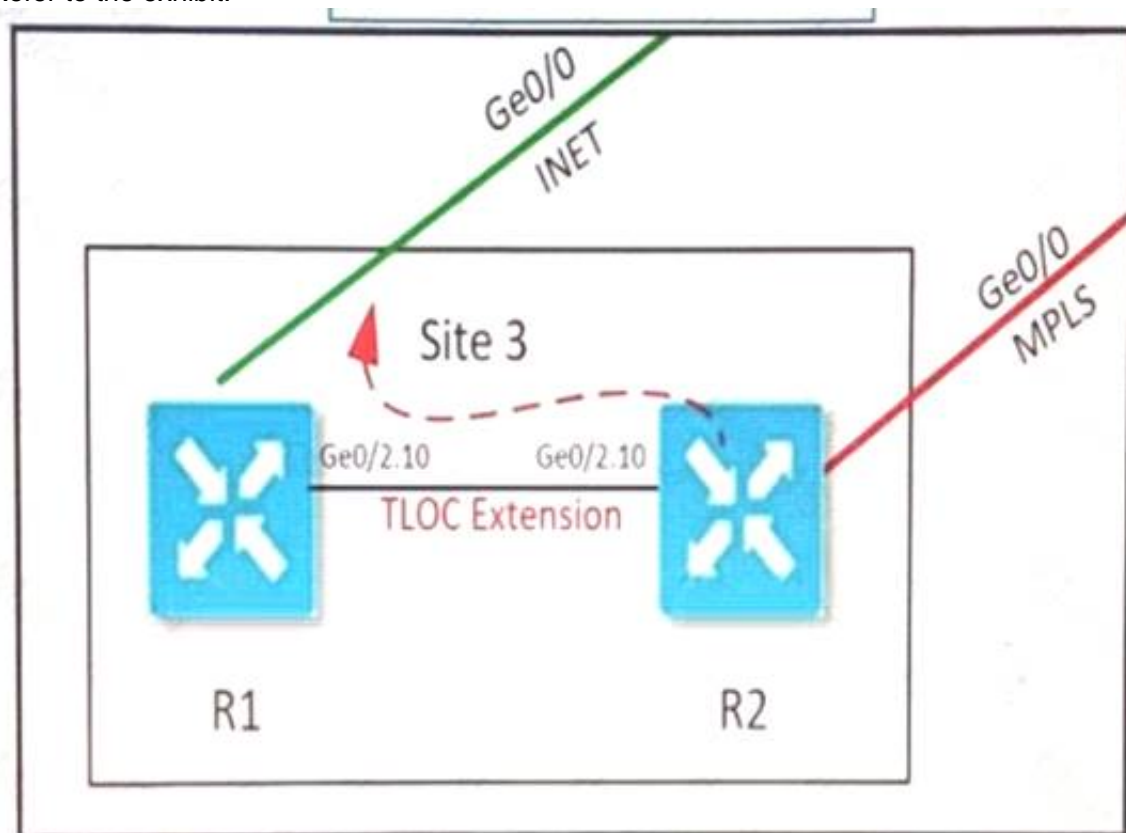
Which routing protocol is used to exchange control plane information between vSmart controllers and WAN Edge routers in the Cisco SD-WAN secure extensible network?

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

Answer: D

#### NEW QUESTION 365

Refer to the exhibit.



Which configuration extends the INET interface on R1 to be used by R2 for control and data connections?

A)

```
R1
interface ge0/2
no shutdown
interface ge0/2.10
ip address 43.43.43 2/30
tloc-extension ge0/0

R2
interface ge0/2
no shutdown
interface ge0/2.10
ip address 43.43.43 1/30
tloc-extension ge0/0
```

B)

```
R1
interface ge0/2
interface ge0/2.10
ip address 43.43.43 2/30
tloc-extension ge0/0
tunnel-interface
color public-internet

R2
interface ge0/2
interface ge0/2.10
ip address 43.43.43 1/30
tunnel-interface
color public-internet
```

C)

```
R1
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43 2/30
tloc-extension ge0/0

R2
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43 1/30
tunnel-interface
color public-internet
```



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

Answer: C

Explanation:

<https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKRST-2091.pdf>

Subinterfaces require a physical, parent interface to be defined in VPN 0, and also require the subinterface MTU to be four bytes lower than the physical interface due to the 802.1q tag. It is recommended to configure the parent physical interface for an MTU of 1504 to take care of this requirement.

NEW QUESTION 366

REST applications communicate over HTTP or HTTPS to make calls between network devices. Which two HTTPS standard methods are included? (Choose two.)

- A. Array
- B. DELETE
- C. POST
- D. Scalar
- E. Object

Answer: BC

NEW QUESTION 369

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 372

Which two products are used to deploy Cisco WAN Edge Router virtual platforms? (Choose two.)

- A. HP ProLiant DL360 Generatton10 running HP-UX
- B. Cisco ENCS 5000 Series
- C. Sun SPARC Node running AIX
- D. Cisco UCS
- E. Sun Enterprise M4000 Server running Sun Solans

**Answer:** BD

#### Explanation:

<https://www.cisco.com/c/en/us/products/collateral/routers/5400-enterprise-network-compute-system/datasheet-c>

#### NEW QUESTION 375

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 378

Which type of lists are used to group related items via an application-aware routing policy under the policy lists command hierarchy on vSmart controllers?

- A. data prefix, sh
- B. and VPN
- C. OSCP value, application, and VPN
- D. data prefix, application, and SLA class
- E. DSCP value, site, and VPN

**Answer:** C

#### NEW QUESTION 382

.....

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