



Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1

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

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

Answer: C

Explanation:

Centralized Policy

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

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

NEW QUESTION 2

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 3

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 4

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"

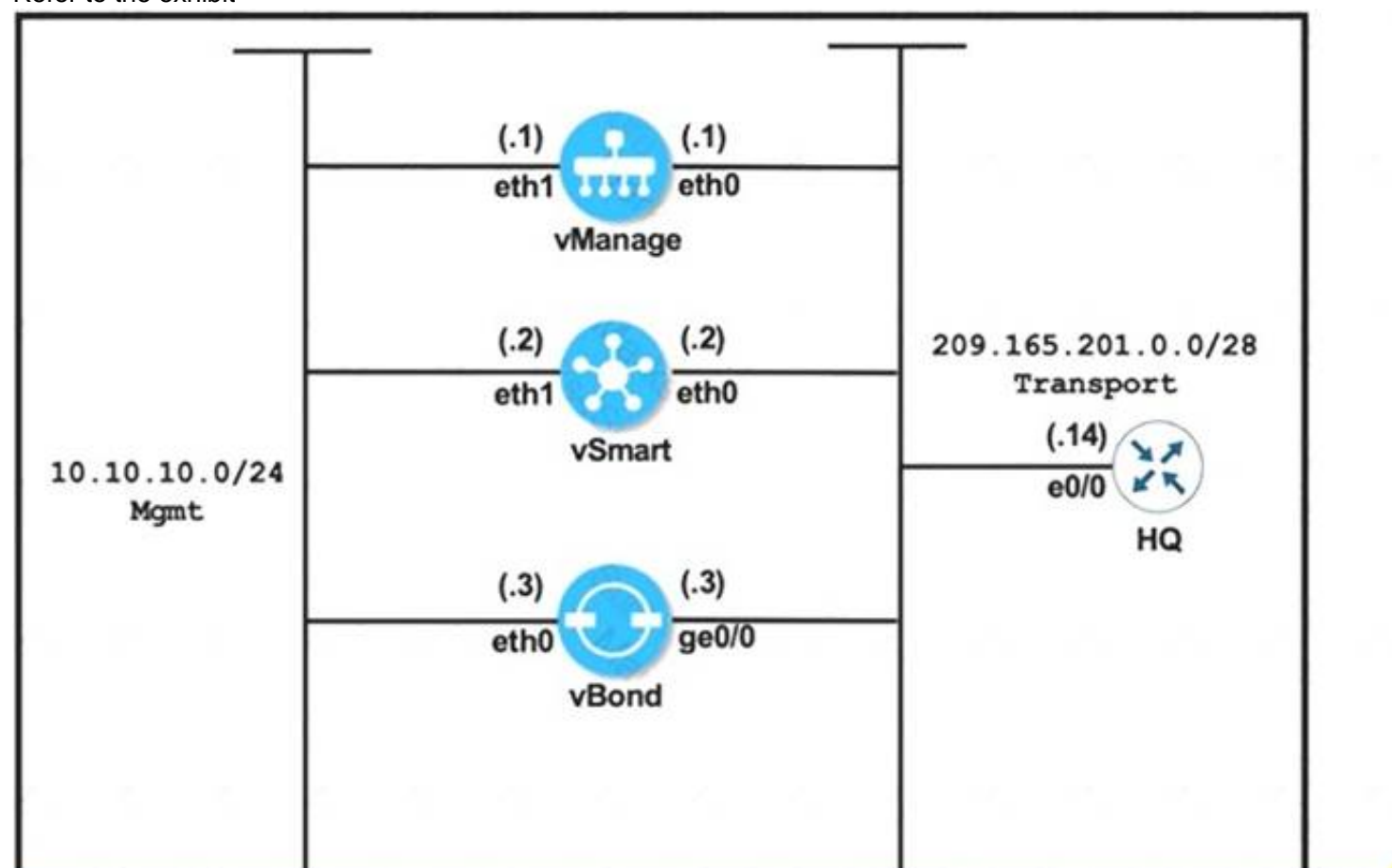
Answer: B

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 5

Refer to the exhibit



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

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

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

Answer: B

Explanation:

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

NEW QUESTION 6

Which device in the SD- WAN solution receives and categorizes event reports, and generates alarms?

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

Answer: C

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.1/vManage_NMS_Product_

NEW QUESTION 7

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 8

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 9

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

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

Answer: AC

Explanation:

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

The following figure illustrates Cisco vEdge Cloud router solution elements.



NEW QUESTION 10

What is a description of vManage NMS?

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

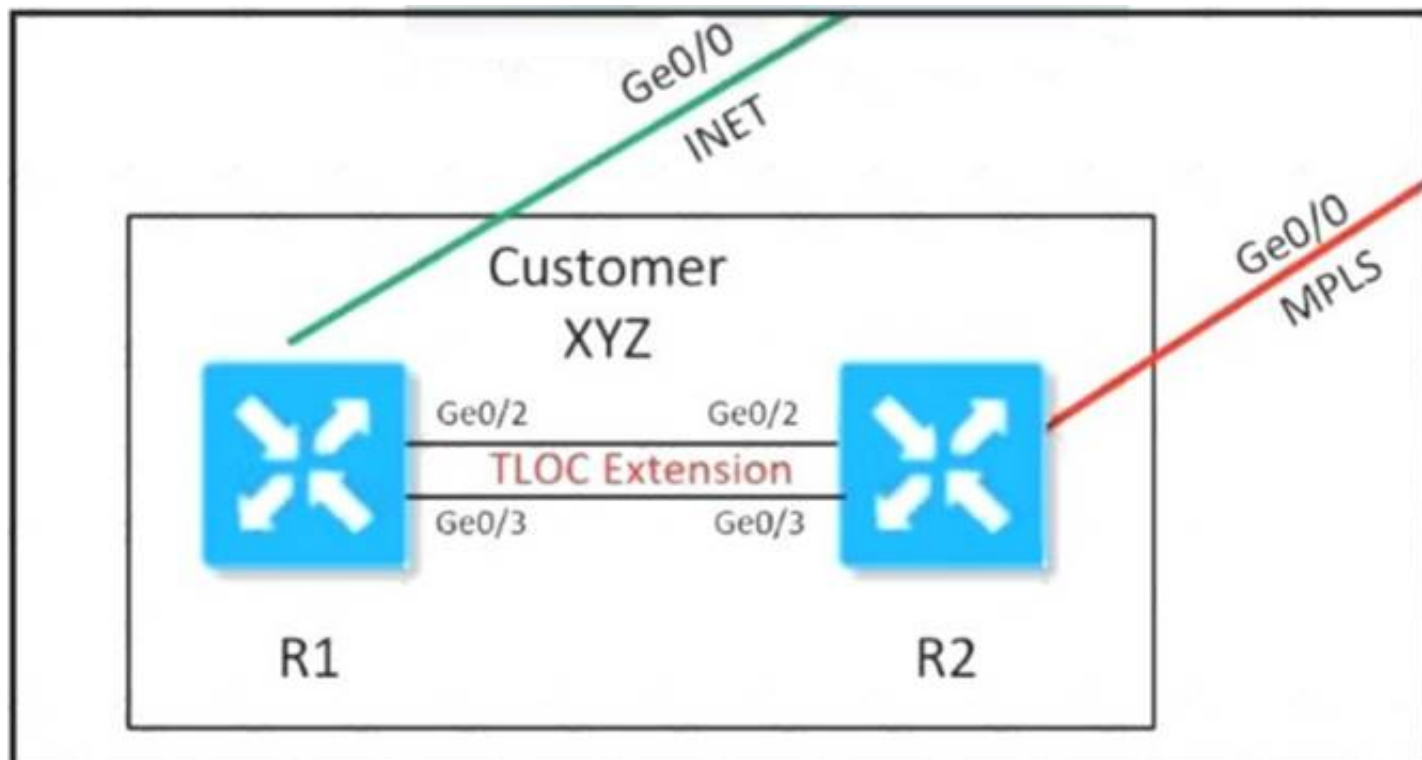
Answer: B

Explanation:

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

NEW QUESTION 10

Refer to the exhibit.



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

A.

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

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

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

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

B.

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

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

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

interface ge0/3
 ip address 34.34.34.1/30
```

C.

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

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

R2
interface ge0/2
 ip address 43.43.43.1/30

interface ge0/3
 ip address 34.34.34.1/30
```

D.

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

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

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

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

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

Answer: A

NEW QUESTION 11

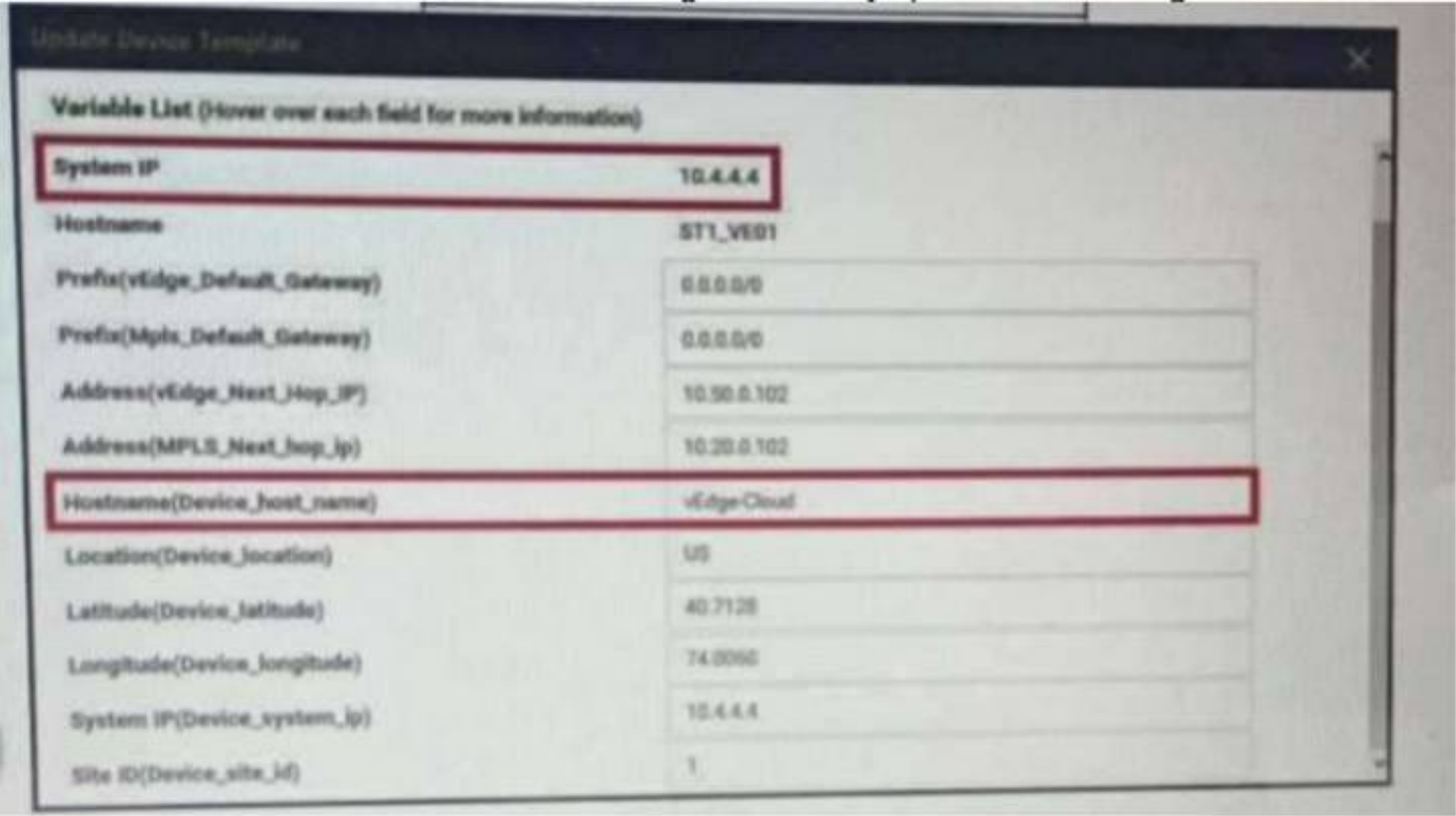
A vEdge platform is sending VRRP advertisement messages every 10 seconds. Which value configures the router back to the default timer?

- A. 2 seconds
B. 3 seconds
C. 1 second
D. 5 seconds

Answer: C

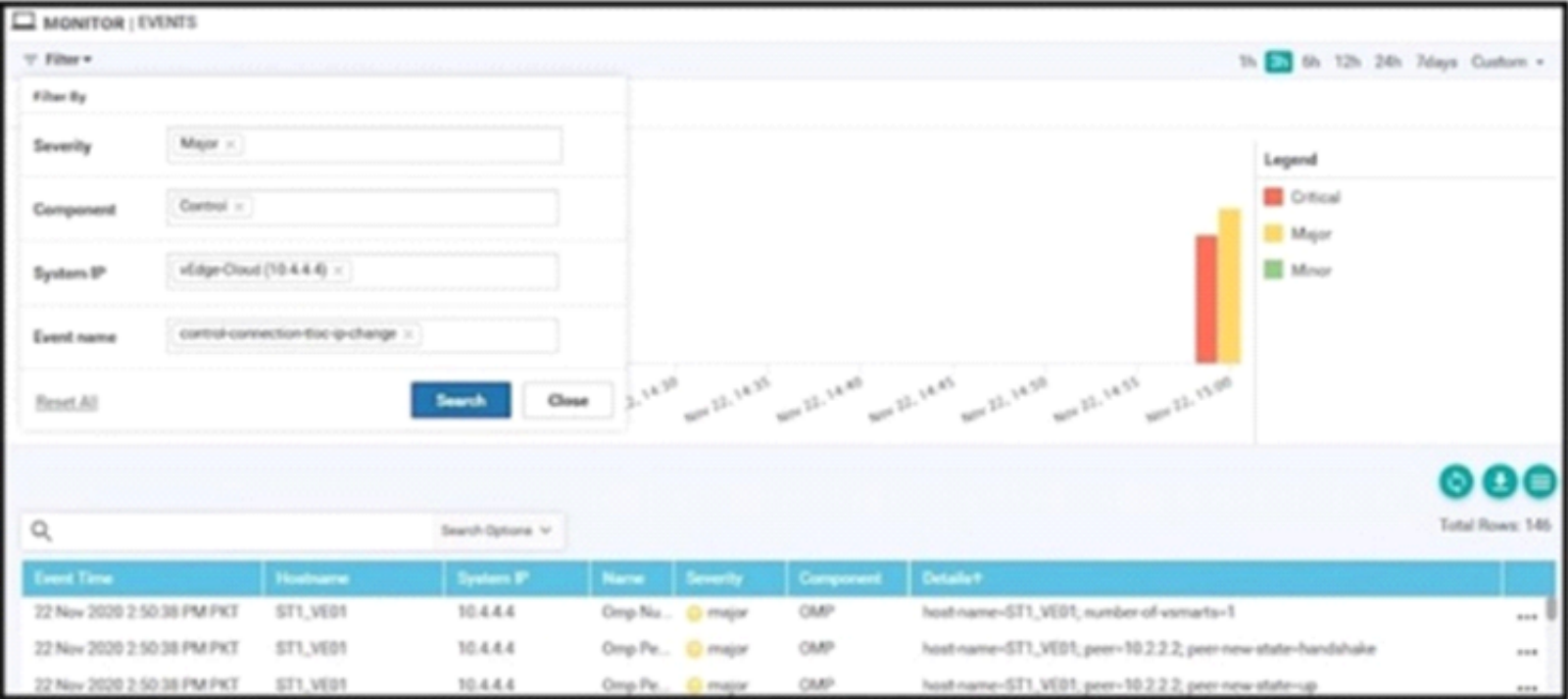
NEW QUESTION 13

Refer to the exhibit.

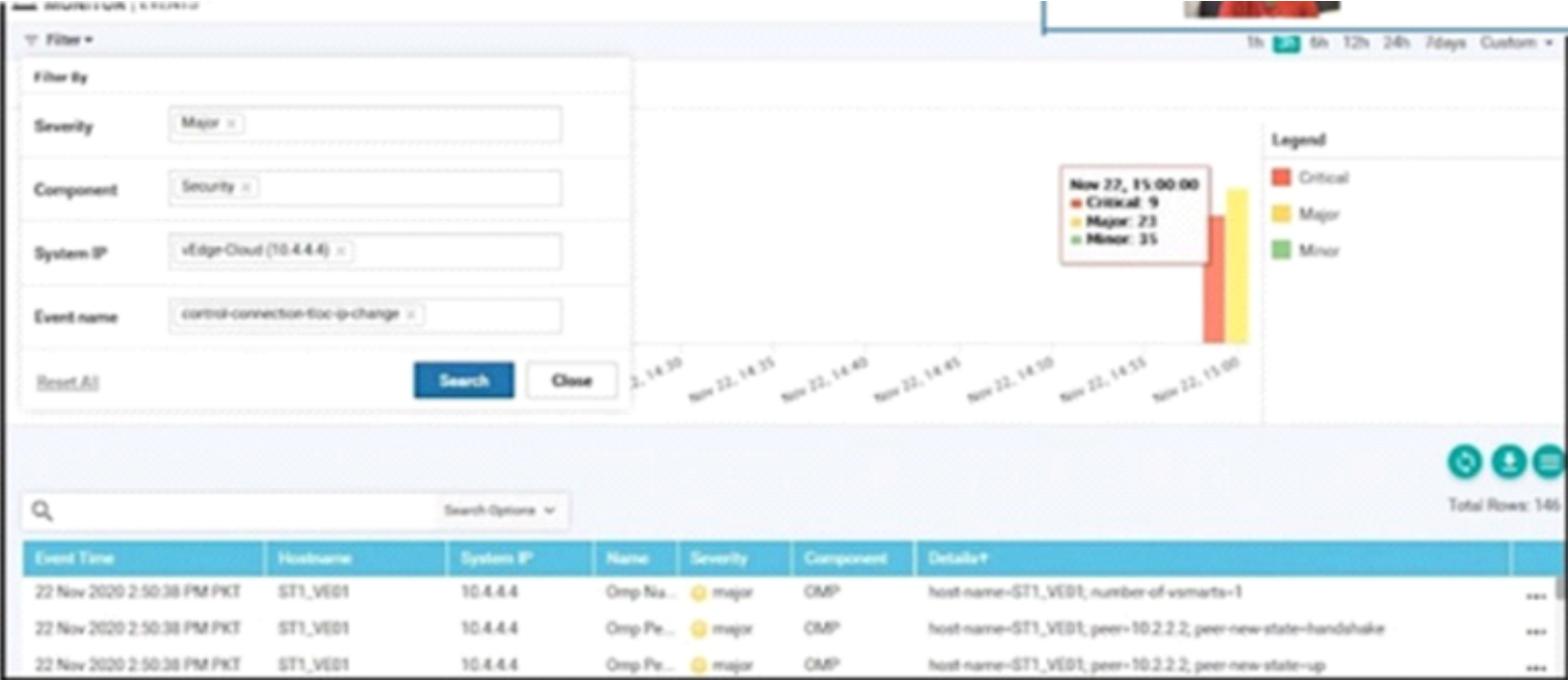


vManage logs are available for the past few months. A device name change deployed mistakenly at a critical site. How is the device name change tracked by operation and design teams?

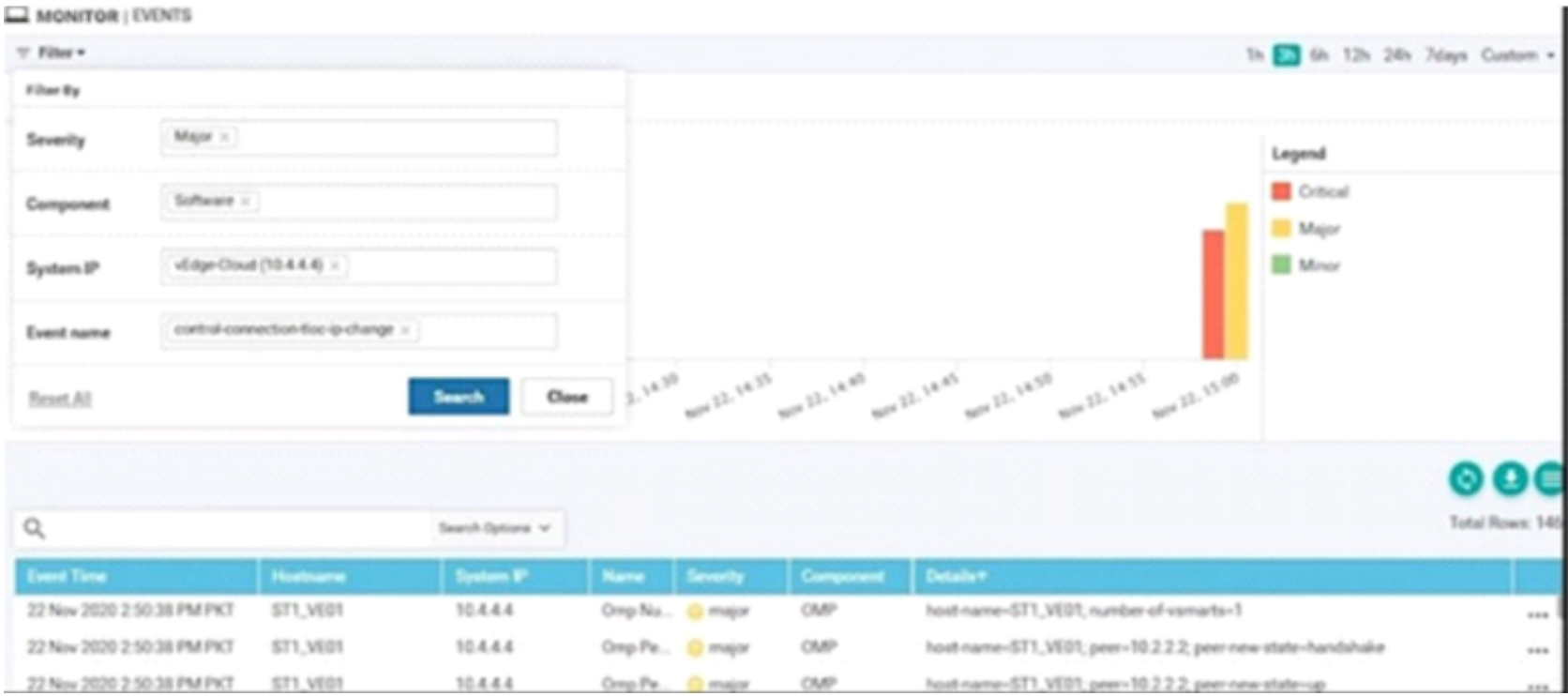
A)



B)



C)



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

Answer: B

NEW QUESTION 18

Which configuration allows users to reach YouTube from a local Internet breakout?

- A)
VPN 10
ip route 0.0.0.0/0 vpn 0
- B)
VPN 10
ip route 0.0.0.0/0 vpn 0
VPN 0
interface Gig1/1
nat
- C)


```
policy
data-policy DPI
vpn-list vpn10
sequence 10
match
app-list YouTube
destination-port 80 443
!
action accept
count Youtube
!
default-action accept
!
lists
vpn-list vpn10
vpn 10
!
app-list YouTube
app youtube
app youtube_hd
!
site-list Remote
site-id 14
site-id 15
!
!
!
apply-policy
site-list Remote
data-policy DPI from-transport
```

D)

```
policy
data-policy DPI
vpn-list vpn10
sequence 10
match
app-list YouTube
!
action drop
count Youtube
!
default-action accept
!
lists
vpn-list vpn10
vpn 10
!
app-list YouTube
app youtube
app youtube_hd
!
site-list Remote
site-id 14
site-id 15
!
apply-policy
site-list Remote
data-policy DPI from-transport

vpn 10
ip route 0.0.0.0/0 vpn 0
```

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

Answer: B

Explanation:

As explained in figure 7, within the direct Internet model, segmentation is leveraged by deploying centralized data policies or a NAT DIA route to leak Internet traffic from the service-side VPN (VPNs 0 - 511,513 - 65530) into the Internet transport VPN (VPN 0), which allows traffic to exit directly to the Internet through the NAT- enabled interface in VPN 0.

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

NEW QUESTION 19

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

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

Answer: B

NEW QUESTION 23

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Cisco NFV Infrastructure Building Blocks

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

NEW QUESTION 26

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

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

Answer: B

Explanation:

In the Add Tenant window:

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

NEW QUESTION 27

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

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

Answer: B

NEW QUESTION 32

Which vBond system configuration under VPN 0 allows for a routable public IP address even if the DNS name, hostname, or IP address of the vBond orchestrator are omitted?

- A. local

- B. vbond-only
- C. dns-name
- D. WAN

Answer: A

NEW QUESTION 37

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

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

Answer: B

Explanation:

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

NEW QUESTION 42

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

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

Answer: B

NEW QUESTION 46

Which combination of platforms are managed by vManage?

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

Answer: A

NEW QUESTION 50

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

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

Answer: AE

Explanation:

Supported Protocols

This section explains the protocols supported for unicast routing.

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

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

NEW QUESTION 52

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 54

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 58

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 61

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 62

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

- A. vSmart

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

Answer: A

Explanation:

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

NEW QUESTION 65

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

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

Answer: B

Explanation:

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

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

NEW QUESTION 67

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 70

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 73

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

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

Answer: C

Explanation:

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

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

NEW QUESTION 74

What is the minimum Red Hat Enterprise Linux operating system requirement for a Cisco SD-WAN controller deployment via KVM?

- A. RHEL7.5
- B. RHEL 6.5
- C. RHEL4.4
- D. RHEL 6.7

Answer: D

NEW QUESTION 76

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

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

Answer: B

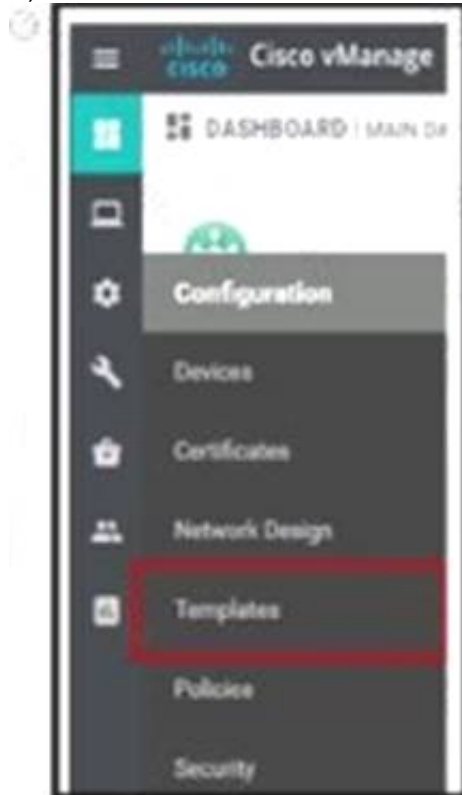
Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices

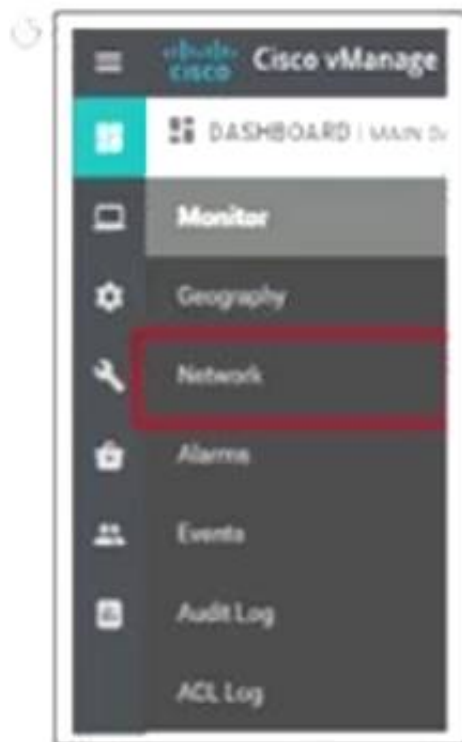
NEW QUESTION 79

Company ABC has decided to deploy the controllers using the On-Prem method. How does the administrator upload the WAN Edge list to the vManage?

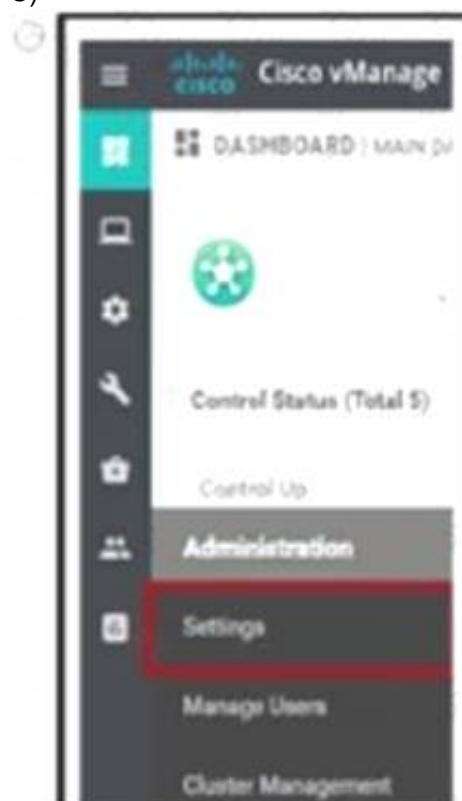
A)



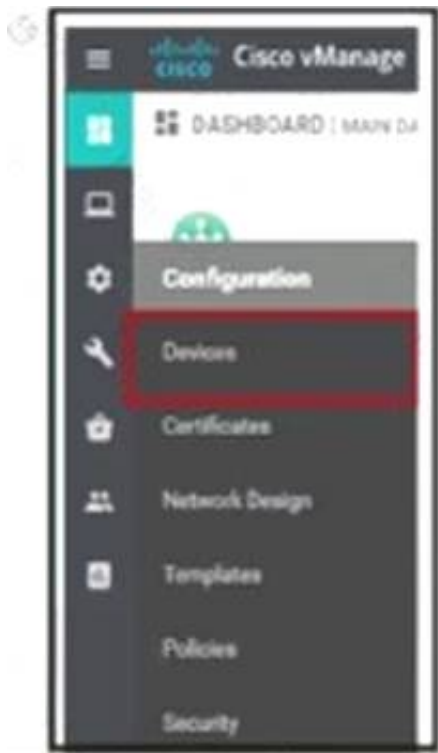
B)



C)



D)



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

Answer: D

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices

NEW QUESTION 81

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 83

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

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

Answer: D

Explanation:

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

NEW QUESTION 88

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

- A)
- ```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color mpls
```
- B)
- ```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color public-internet
```
- C)
- ```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color biz-internet
```
- D)

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

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

**Answer:** B

#### NEW QUESTION 89

An engineer is adding a tenant with location JD 306432373 in vManage. What is the maximum number of alphanumeric characters that are accepted in the tenant name field?

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

**Answer:** B

#### Explanation:

In the Add Tenant window:

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

#### NEW QUESTION 93

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

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

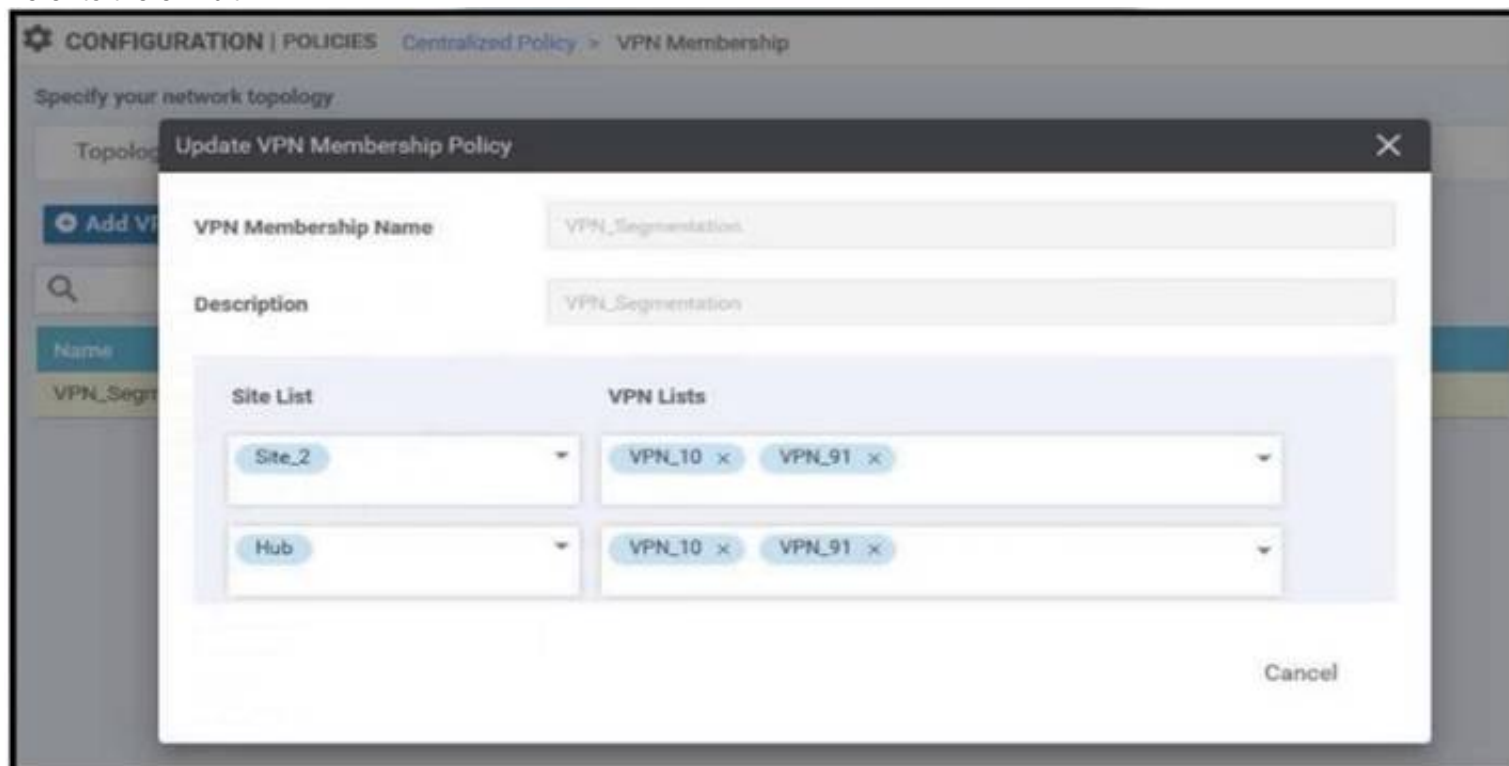
**Answer:** AE

#### Explanation:

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

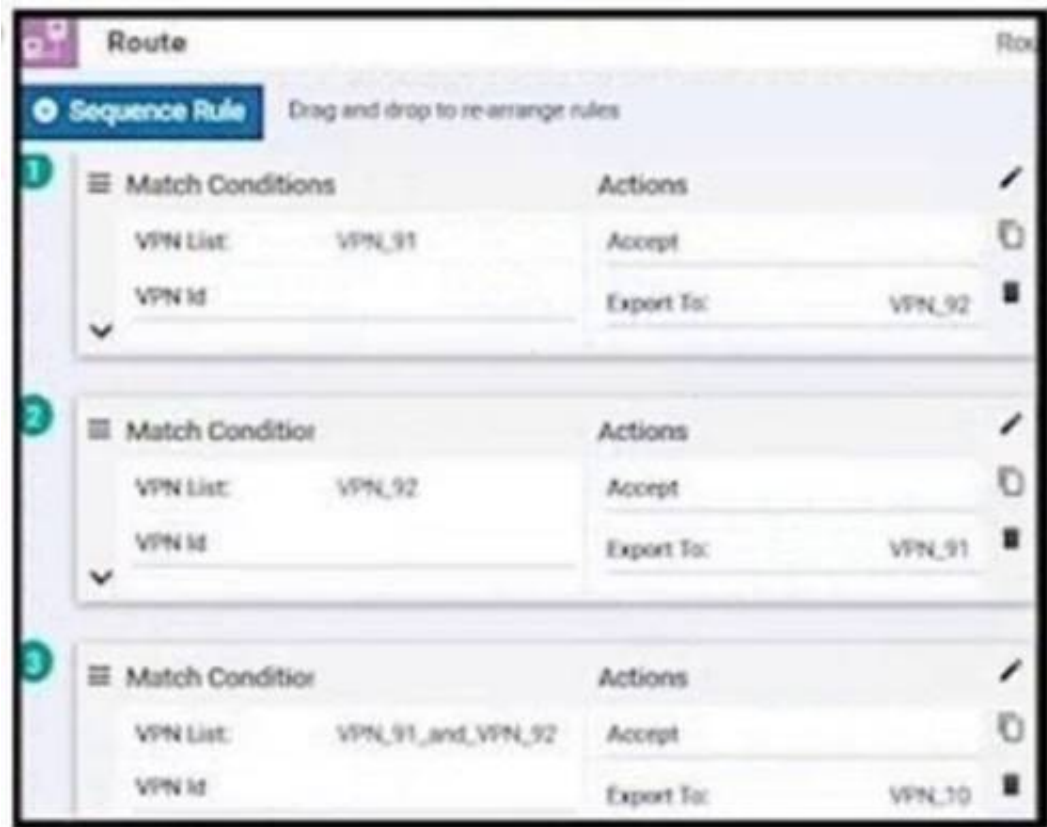
#### NEW QUESTION 96

Refer to the exhibit.

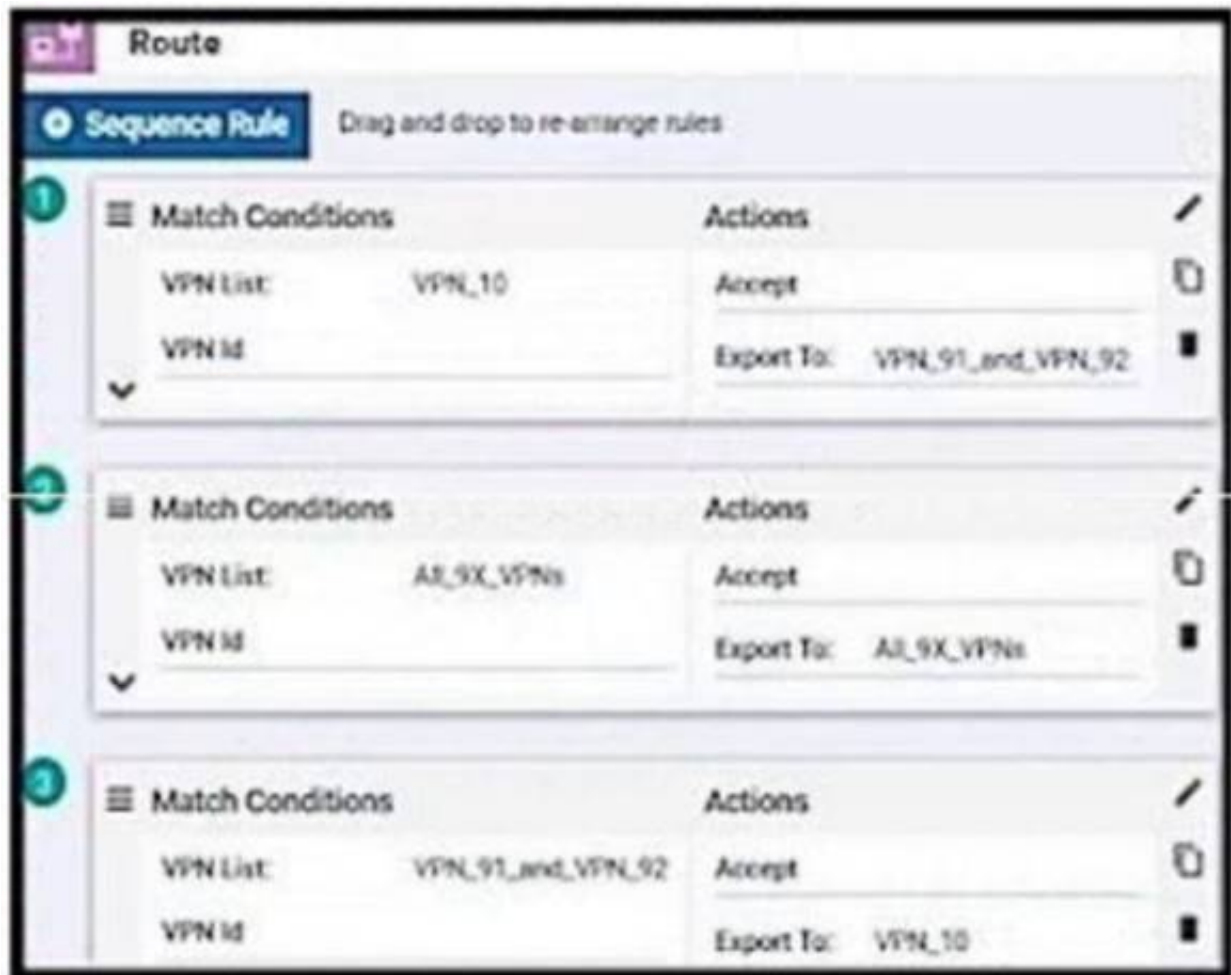


An enterprise has hub and spoke topology where it has several VPNs. An engineer must allow users in VPN91 to reach users in VPN92 and VPN10 to reach VPN91 and VPN92. Which configuration meets these requirements?

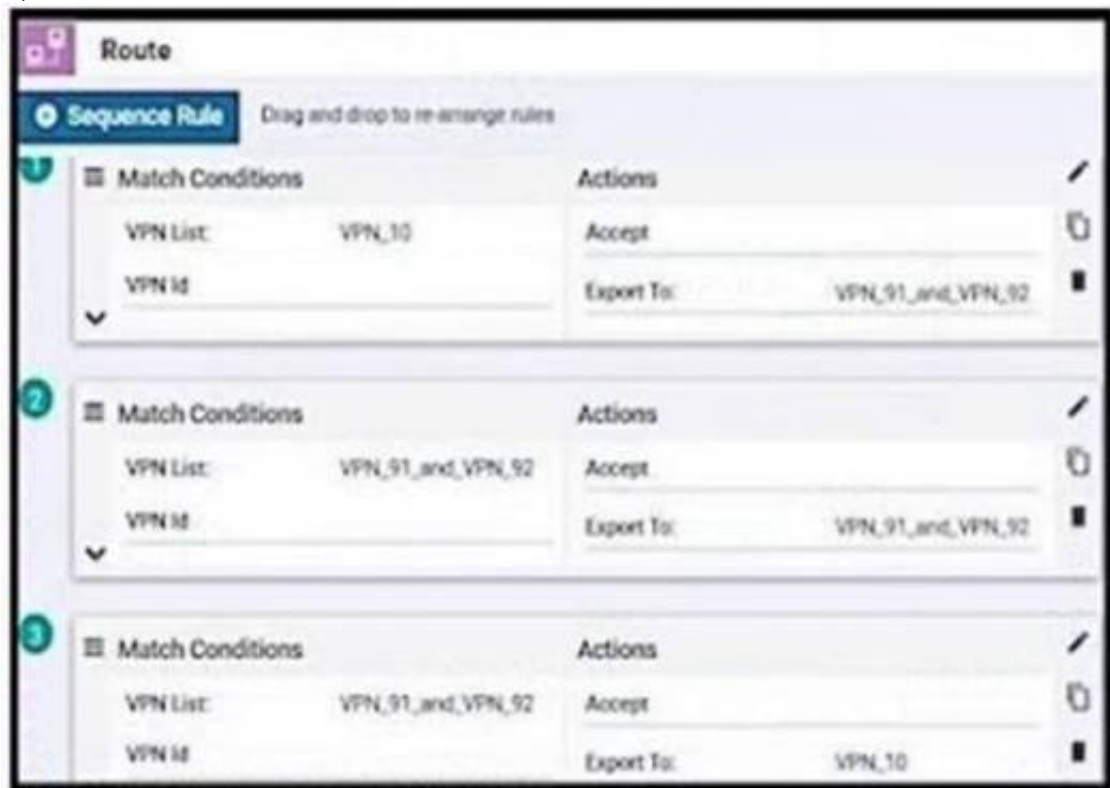
A)



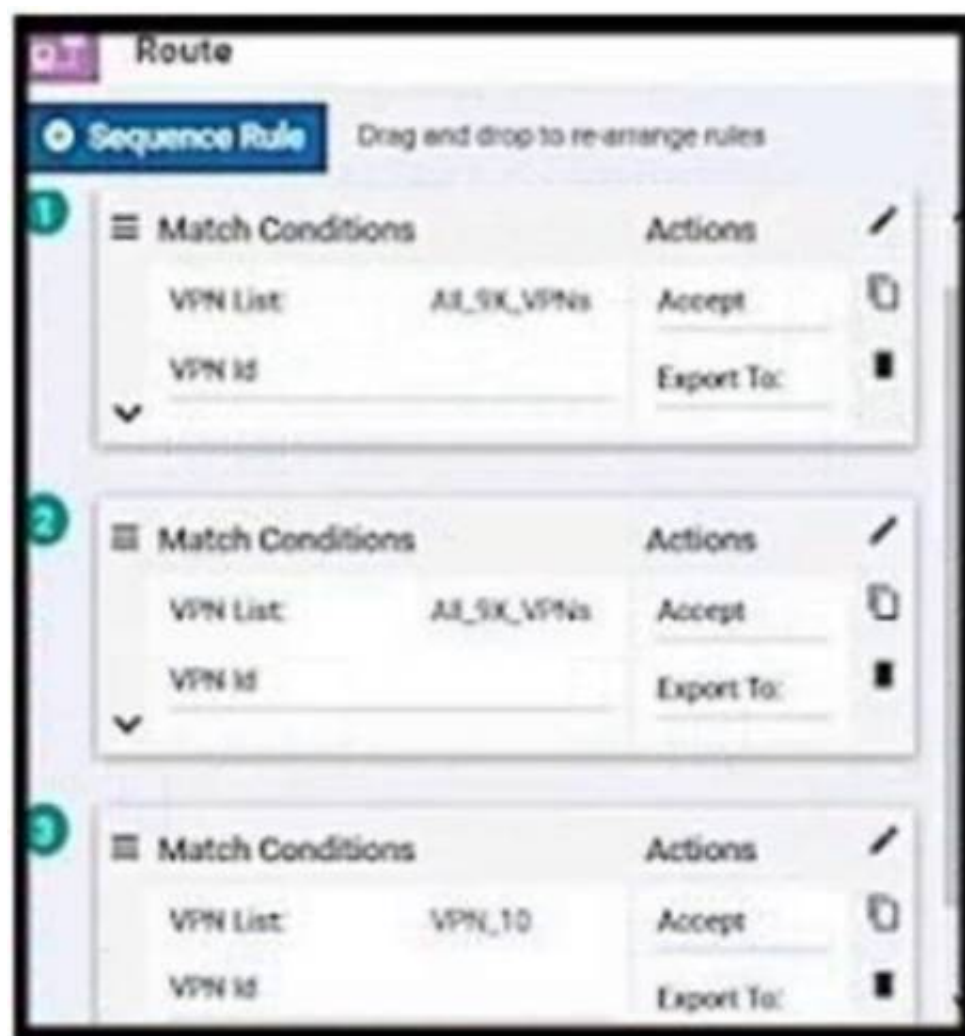
B)



C)



D)



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

**Answer:** C

#### NEW QUESTION 100

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

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

**Answer:** A

#### Explanation:

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

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

#### NEW QUESTION 101

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

- A. HP ProLiant DL360 Generation10 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 106

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

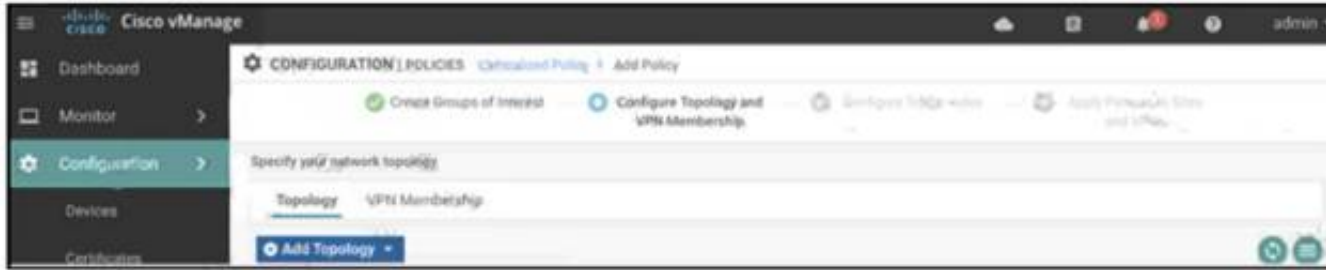
- A. TLS
- B. DTLS
- C. SSL VPN
- D. IPsec

**Answer:** D

#### NEW QUESTION 109



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 113

An engineer must deploy a QoS policy with these requirements:

- policy name: App-police
- police rate: 1000000
- burst: 1000000
- exceed: drop

Which configuration meets the requirements?

- A. 

```
vpn-list VPN10
sequence 1
match
app-list youtube
action accept
set
policer App-police
```
- B. 

```
policy
data-policy policy-name
vpn-list 10
sequence 1
action accept
set
policer App-police
```
- C. 

```
vpn 10
interface ge0/0/0
set
policer App-police in
default action accept
```
- D. 

```
policy
action accept
set
policer App-police
```

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

**Answer: B**

### NEW QUESTION 116

Which two platforms for the Cisco SD-WAN architecture are deployable in a hypervisor on-premises or in IAAS Cloud? (Choose two.)

- A. CSR 1000v
- B. vEdge 100c
- C. vEdge Cloud
- D. vEdge 2000
- E. ISR 4431

**Answer: AC**

### NEW QUESTION 117

What prohibits deleting a VNF image from the software repository?

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

**Answer: D**

#### NEW QUESTION 121

Which attributes are configured to uniquely Identify and represent a TLOC route?

- A. system IP address, link color, and encapsulation
- B. firewall, IPS, and application optimization
- C. site ID, tag, and VPN
- D. origin, originator, and preference

**Answer:** A

#### Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Design-2018OCT.pdf>

#### NEW QUESTION 123

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 128

Refer to the exhibit.

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

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

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

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 130

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

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








**Answer:** C

#### Explanation:

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

### NEW QUESTION 133

Refer to the exhibit.

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Address Family             |  <input checked="" type="radio"/> On <input type="radio"/> Off                                    |
| Address Family             |  ipv4-unicast  |
| Maximum Number of Prefixes |  <input type="text"/>                                                                             |
| Route Policy In            |  <input type="radio"/> On <input checked="" type="radio"/> Off                                  |
| Route Policy Out           |  <input checked="" type="radio"/> On <input type="radio"/> 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

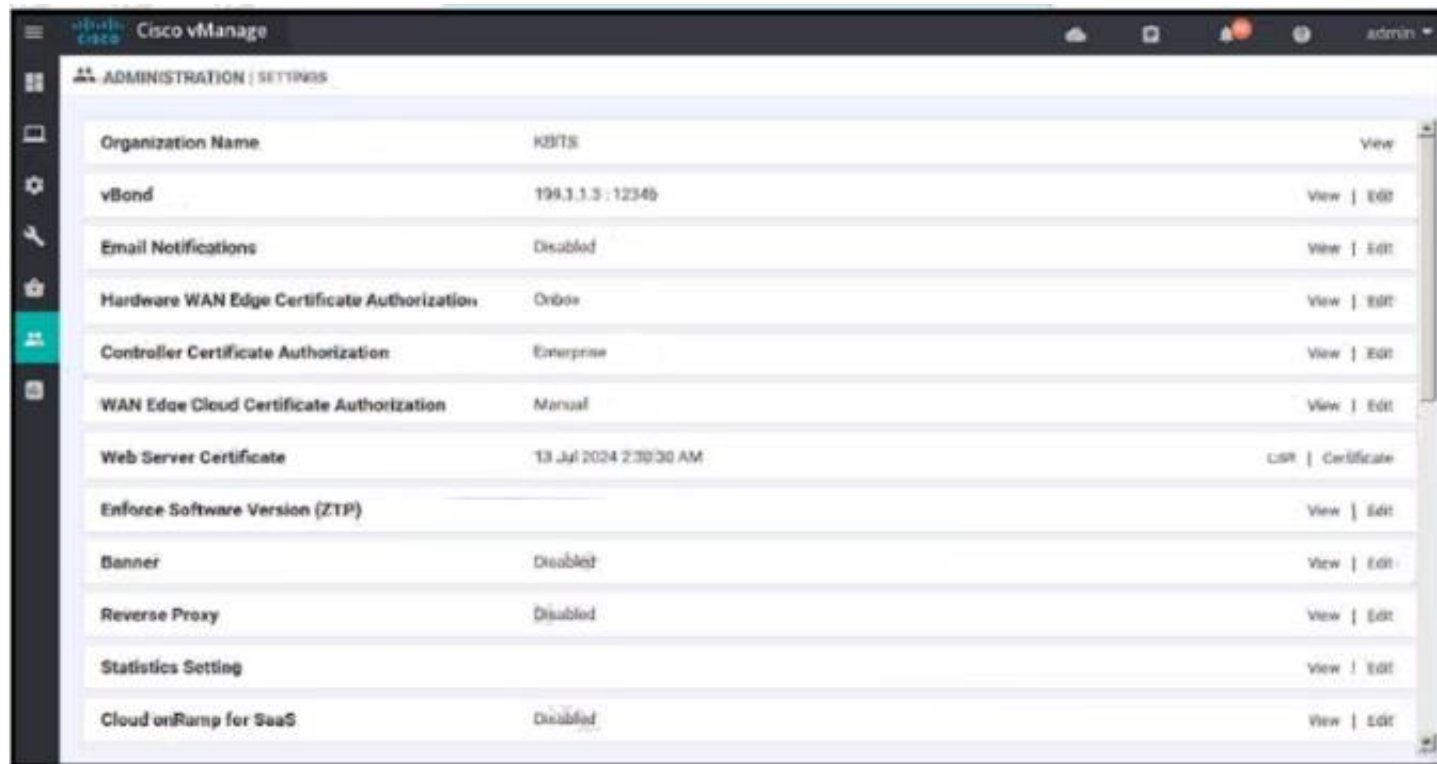
```

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

**Answer:** D

#### NEW QUESTION 135

Refer to the exhibit.



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

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

**Answer:** AE

#### Explanation:

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

#### NEW QUESTION 137

Which configuration step is taken on vManage after WAN Edge list is uploaded?

- A. Send the list to controllers
- B. Enable the ZTP process
- C. Verify the device certificate
- D. Set the device as valid

**Answer:** D

#### Explanation:

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

device state must be moved from staging to valid. In vManage under **Configuration > Certificates > WAN Edge List**, select the WAN Edge device(s) and change the state to **valid** under the **Validity** column and click **Send to Controllers**.

#### NEW QUESTION 141

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

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

**Answer:** C

#### Explanation:

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



#### NEW QUESTION 143

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

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

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

**Answer:** A

#### Explanation:

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_17.2/Configuration/Templates/O](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.2/Configuration/Templates/O)

#### NEW QUESTION 146

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

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 148

Refer to the exhibit.



**Explanation:**

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

**NEW QUESTION 149**

Which component of the Cisco SD-WAN architecture oversees the control plane of overlay network to establish, adjust, and maintain the connections between the WAN Edge devices that form the Cisco SD-WAN fabric?

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

**Answer: C**

**Explanation:**

Cisco vSmart Controller

The Cisco vSmart Controller oversees the control plane of the Cisco SD-WAN overlay network, establishing, adjusting, and maintaining the connections that form the Cisco SD-WAN fabric.

**NEW QUESTION 154**

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 157**

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

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

**Answer: A**

**Explanation:**

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

**NEW QUESTION 160**

Refer to the exhibit.

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

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

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

**Answer: C**

#### NEW QUESTION 163

Which command on a WAN Edge device displays the information about the colors present in the fabric that are learned from vSmart via OMP?

- A. show omp tlocs
- B. show omp sessions
- C. show omp peers
- D. show omp route

**Answer:** A

#### NEW QUESTION 165

What is the procedure to upgrade all Cisco SD-WAN devices to a recent version?

- A. The upgrade is performed for a group of WAN Edge devices first to ensure data-plane availability when other controllers are updated.
- B. The upgrade is performed first on vManage, then on WAN Edge devices, then on vBond and finally on vSmart. The reboot must start from WAN Edge devices.
- C. Upgrade and reboot are performed first on vManage then on vBond then on vSmart and finally on the Cisco WAN Edge devices.
- D. and finally on the Cisco WAN Edge devices.
- E. Upgrade and reboot are performed first on vBond then on vSmart and finally on the Cisco WAN Edge devices.
- F. then on vSmart
- G. and finally on the Cisco WAN Edge devices.

**Answer:** C

#### NEW QUESTION 169

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 173

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 175

WAN Edge routers are configured manually to use UDP port offset to use nondefault offset values when IPsec tunnels are created. What is the offset range?

- A. 1-19
- B. 0-18
- C. 0-19
- D. 1-18

**Answer:** C

#### NEW QUESTION 179

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 181

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



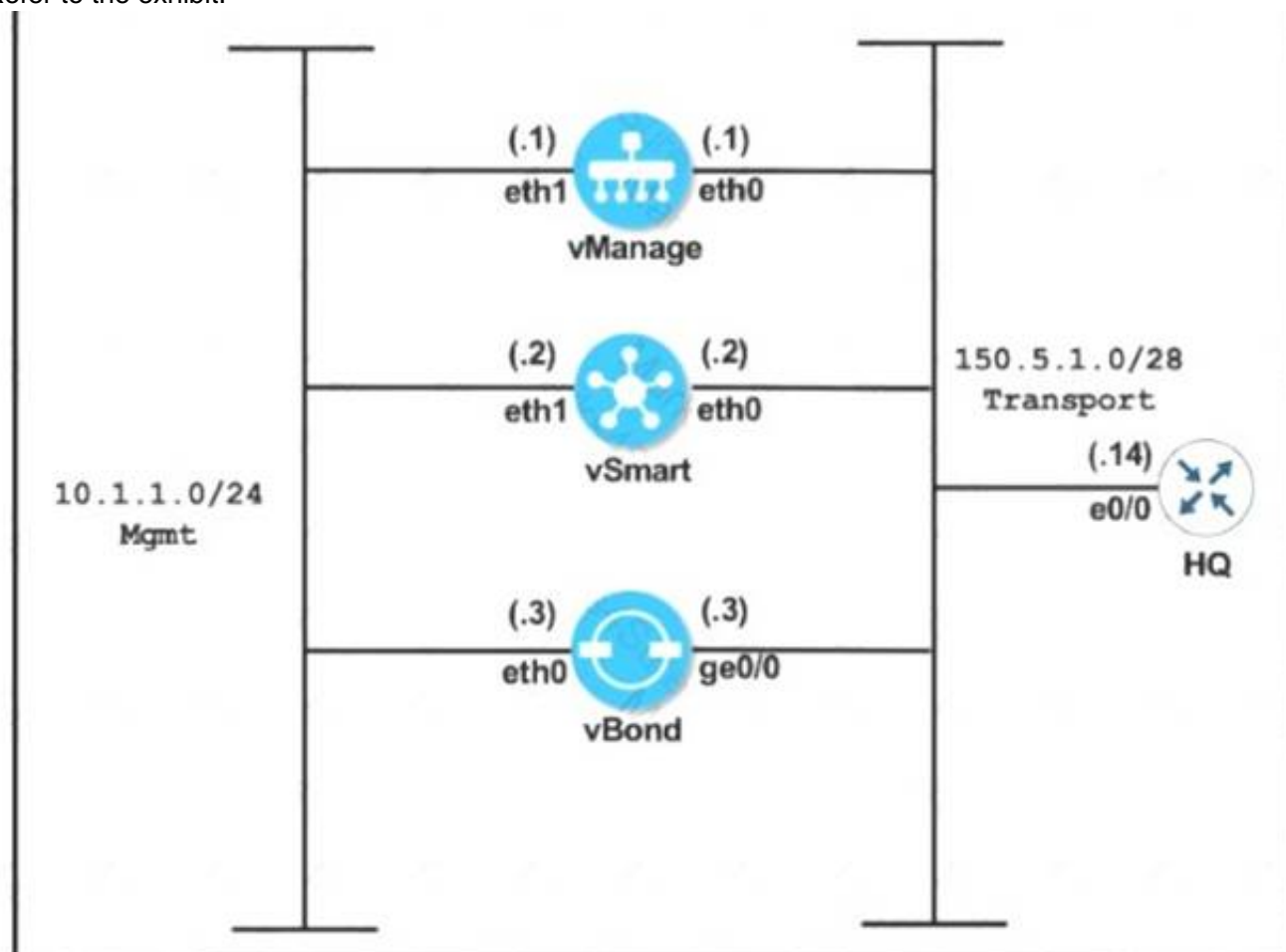
task?

- A. Create groups of interest
- B. Configure network topology.
- C. Configure traffic rules.
- D. Apply policies to sites and VPNs.

Answer: A

#### NEW QUESTION 184

Refer to the exhibit.



```

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

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

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

```

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

- A. Reconfigure the vBond command on the vBond as vBond 150.5.1.3 local

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

**Answer:** A

**Explanation:**

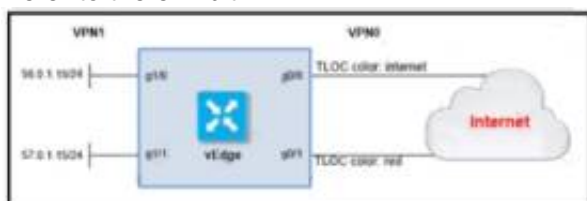
Configure the IP address of Cisco vBond Orchestrator. Cisco vBond Orchestrator's IP address must be a public IP address, to allow all Cisco vEdge devices in the overlay network to reach Cisco vBond Orchestrator:

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

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

**NEW QUESTION 187**

Refer to the exhibit.



The ge0/0 interface connects to a 30-MB link. A network administrator wants to always have 10 MB available for high priority traffic. When lower-priority traffic bursts exceed 20 MB. Traffic should be redirected to the second WAN interface ge0/1. Which set of configurations accomplishes this task?

A)

```
policy
 policer bursty-traffic
 rate 10000
 burst 20000
 exceed drop
 access-list policer-bursty-traffic
 sequence 10
 match
 source-ip 56.0.1.0/24
 action accept
 policer bursty-traffic
 default-action accept
```

B)

```
policy
 policer bursty-traffic
 rate 100000
 burst 20000
 exceed continue
 access-list policer-bursty-traffic
 sequence 10
 match
 source-ip 56.0.1.0/24
 action accept
 policer bursty-traffic
 default-action accept
```

C)

```
policy
 policer bursty-traffic
 rate 1000000
 burst 20000
 exceed remark
 access-list policer-bursty-traffic
 sequence 10
 match
 source-ip 56.0.1.0/24
 action accept
 policer bursty-traffic
 default-action accept
```

D)

```
policy
 policer bursty-traffic
 rate 10
 burst 20
 exceed remark
 access-list policer-bursty-traffic
 sequence 10
 match
 source-ip 56.0.1.0/24
 action accept
 policer bursty-traffic
 default-action accept
```

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

**Answer:** C

**Explanation:**

```
policy
 policer bursty-traffic
 rate 1000000
 burst 20000
 exceed remark
 access-list policer-bursty-traffic
 sequence 10
 match
 source-ip 56.0.1.0/24
 action accept
 policer bursty-traffic
 default-action accept
```

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=546>

#### NEW QUESTION 189

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 191**

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 194

Refer to the exhibit



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

```
vManage# show certificate installed
```

```
Server certificate
```

```
Certificate:
```

```
Data:
```

```
Version: 1 (0x0)
```

```
Serial Number:
```

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

```
Signature Algorithm: sha256WithRSAEncryption
```

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

```
Validity
```

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

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

```
Subject: C=US, ST=California, L=San Jose, OU=ABC,

O=vIPTela Inc, CN=vmanage-6842d5cf-ce74-41a0-9ff5-

10e810f9ddab-0.vm
```

```
Subject Public Key Info:
```

**Public Key Algorithm: rsaEncryption**  
**Public-Key: (2048 bit)**

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

A)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

B)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

C)

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

D)

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**

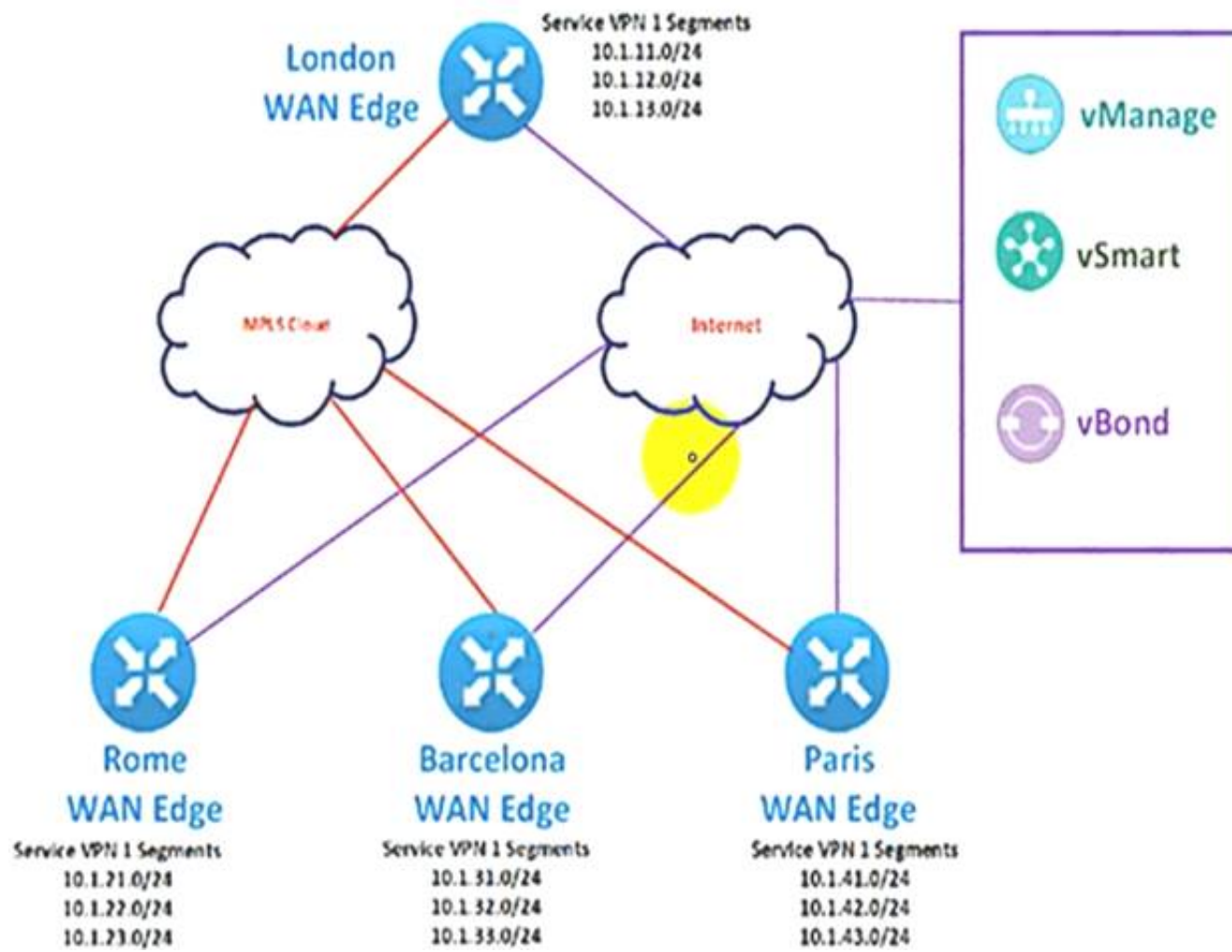
**Explanation:**

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 195**

Refer to the exhibit.



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

A)



B)



C)



D)





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

**Answer:** A

#### NEW QUESTION 196

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 200

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

- A. 

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

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

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

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

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

**Answer:** A

#### NEW QUESTION 205

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