



Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

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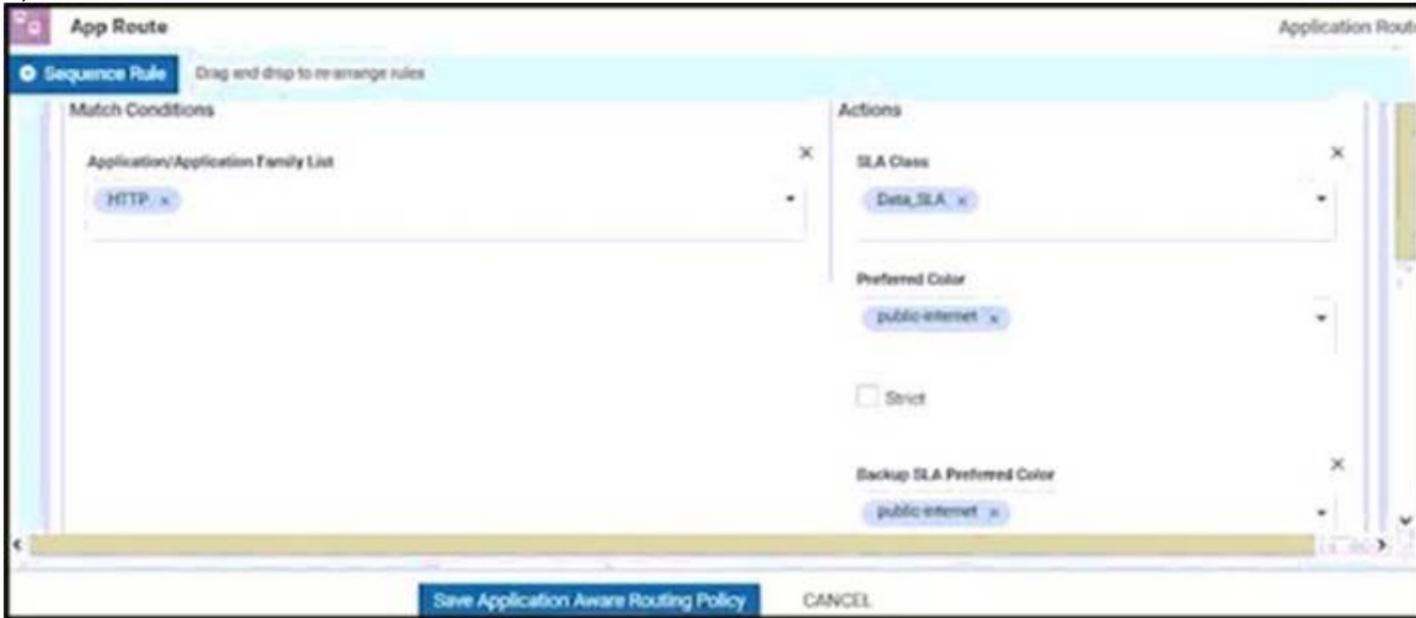
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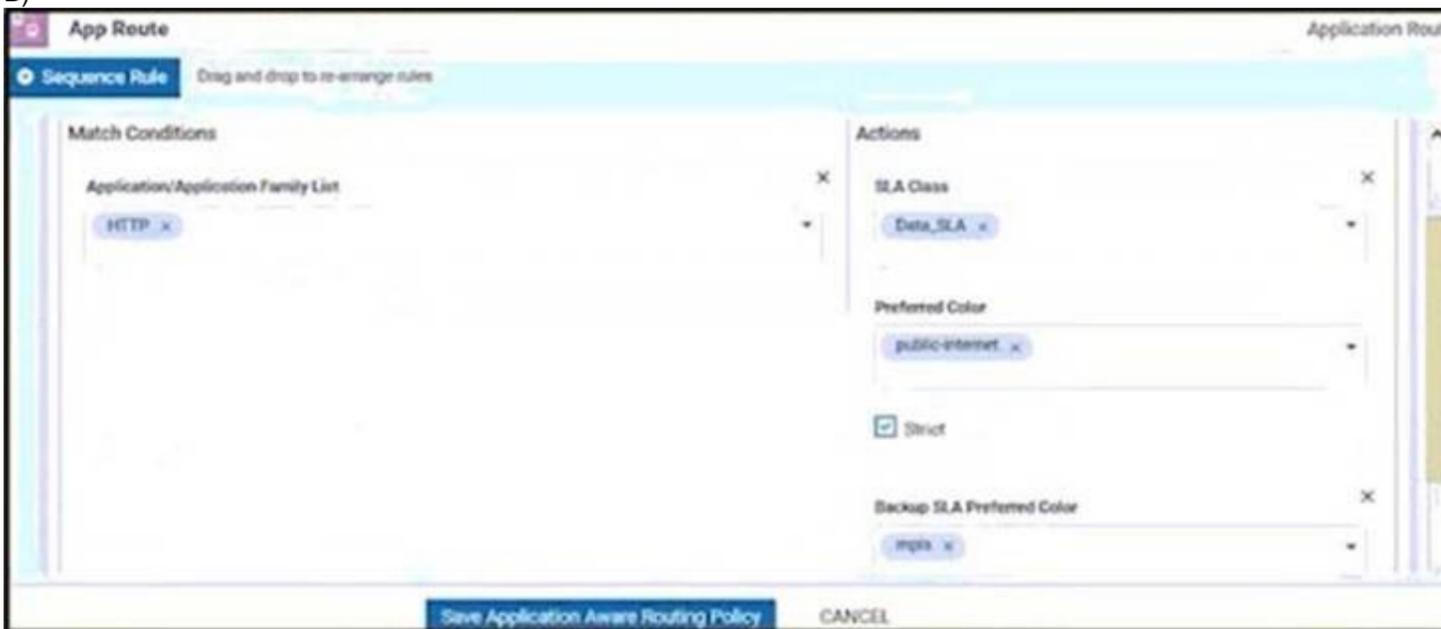
NEW QUESTION 1

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

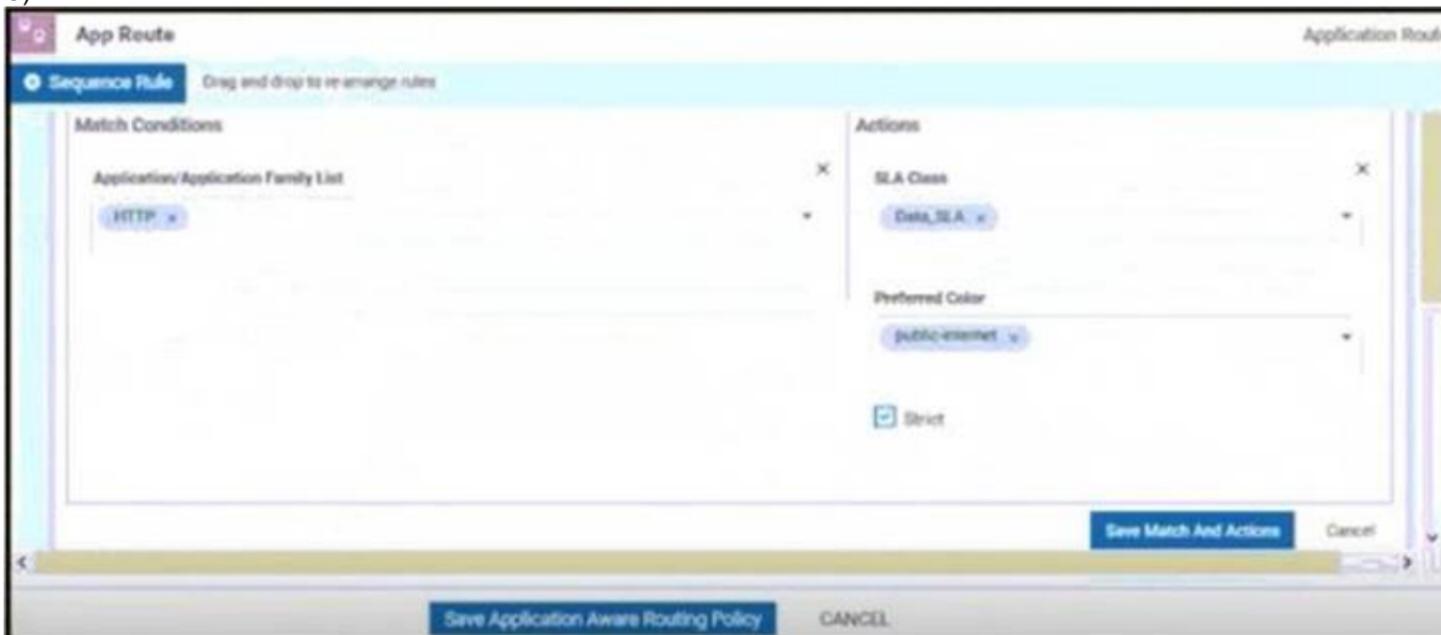
A)



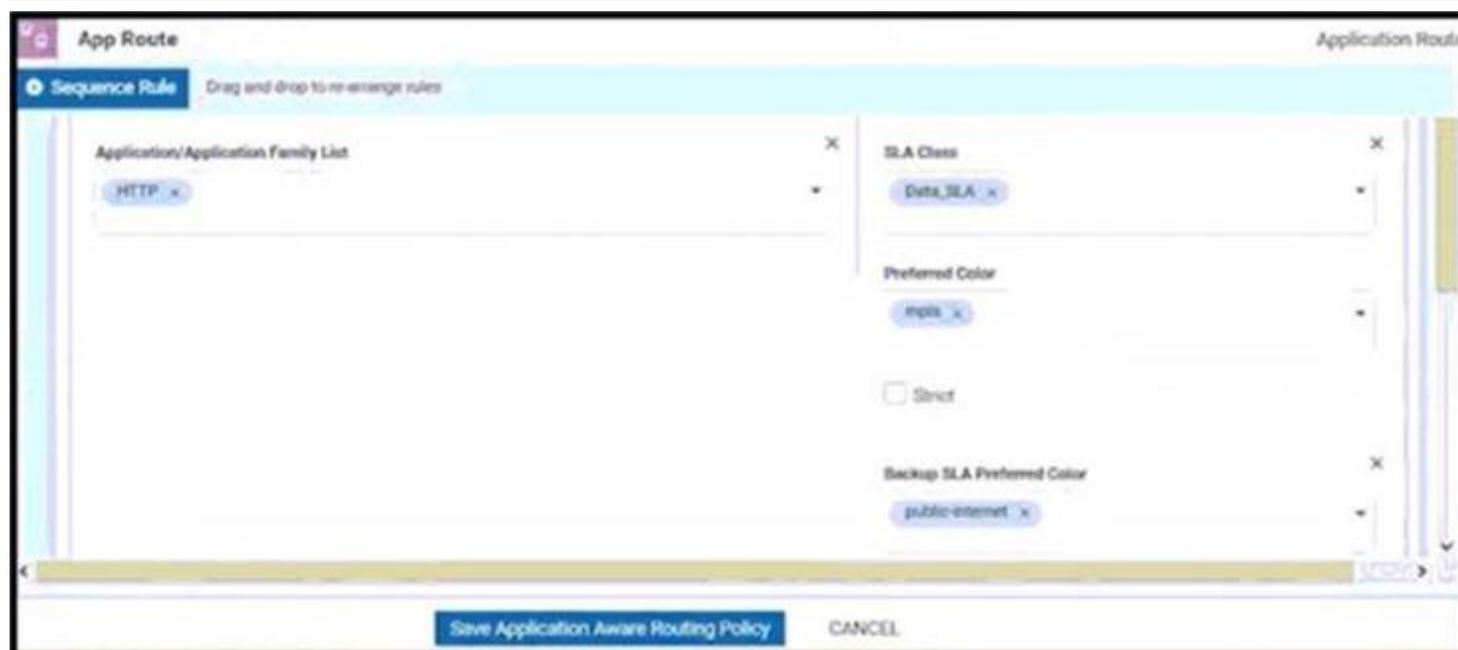
B)



C)



D)



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

Answer: C

NEW QUESTION 2

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
  
```

```

vgn 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 3

Refer to the exhibit.

```

vEdge1# show control connections

```

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

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

A)

CONFIGURATION | CERTIFICATES

WAN Edge List Controllers

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

Search Options Total Rows: 20

State	Device Model	Chassis Number	Hostname	IP Address	Serial No./Token	Validate		
🟢	vEdge Cloud	9a0cfea0-a463-7dec-c5...	vEdge1	10.10.10.1	BC42AE30	invalid	🟡	Valid
🟢	vEdge Cloud	cc5daa8e-9bb1-7c9d-fs...	vEdge2	10.10.10.2	E1F0754E	invalid	🟡	Valid
🟢	vEdge Cloud	d7b14bb6-f718-b111-8...	vEdge3	10.10.10.3	F5DA0A8D	invalid	🟡	Valid
🟢	vEdge Cloud	92b4f92b-daff-7ce2-c3...	vEdge4	10.10.10.4	BD992059	invalid	🟡	Valid
🟢	vEdge Cloud	0182a420-e93e-41f7-6f...	vEdge5	10.10.10.5	FA460EE6	invalid	🟡	Valid

B)

CONFIGURATION | DEVICES

WAN Edge List Controllers

Change Mode Upload WAN Edge List Export Bootstrap Configuration Sync Smart Account

CLI mode vManage mode

Total Rows: 20

State	Device Model#	Chassis Number	Serial No./Token	Hostname	System IP	Site ID	Mode
🟢	vEdge Cloud	9a0cfea0-a463-7dec-c586-85f9d29cd56e	BC42AE30	vEdge1	10.10.10.1	1	vManage
🟢	vEdge Cloud	cc5daa8e-9bb1-7c9d-f545-1a9657a0b0...	E1F0754E	vEdge2	10.10.10.2	2	vManage
🟢	vEdge Cloud	d7b14bb6-f718-b111-8dd1-535fa9c968a2	F5DA0A8D	vEdge3	10.10.10.3	3	vManage
🟢	vEdge Cloud	92b4f92b-daff-7ce2-c3da-622673be0329	BD992059	vEdge4	10.10.10.4	4	vManage
🟢	vEdge Cloud	0183a420-e93e-41f7-6fc6-f74bb8754881	FA460EE6	vEdge5	10.10.10.5	4	vManage

CONFIGURATION | CERTIFICATES

WAN Edge List Controllers

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

Total Rows: 20

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

CONFIGURATION | CERTIFICATES

WAN Edge List Controllers

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

Total Rows: 20

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

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

Answer: A

NEW QUESTION 4

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 5

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

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

Answer: CD

NEW QUESTION 6

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

NEW QUESTION 7

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 8

Which logs verify when a device was upgraded?

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

Answer: A

NEW QUESTION 9

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 10

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 10

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

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

Answer: C

Explanation:

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

NEW QUESTION 15

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 18

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 19

Which component is responsible for routing protocols such as BGP and OSPF in a Cisco SD-WAN solution?

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

Answer: D

Explanation:

WAN Edge router - This device, available as either a hardware appliance or software-based router, sits at a physical site or in the cloud and provides secure data plane connectivity among the sites over one or more WAN transports. It is responsible for traffic forwarding, security, encryption, quality of service (QoS), routing protocols such as Border Gateway Protocol (BGP) and Open Shortest Path First (OSPF), and more.

NEW QUESTION 24

Refer to the exhibit,

```

from-vsmart data-policy_1_ServiceInsertionIPSec
direction from-service
vpn-list 1
  sequence 1
  match destination-ip 64.102.6.247/32
  action accept
  set
  service netsvc1
  service local
  default-action accept
    
```

which configuration configures IPsec tunnels in active and standby?

- vpn 1
 service netsvc1 interface ipsec1 ipsec2

 vpn-list 1
 count ServicePsec1_275676046
 from-vsmart lists vpn-list 1
 vpn 1
- vpn 0
 service netsvc1 interface ipsec1 ipsec2

 from-vsmart lists vpn-list 0
 vpn 0
- vpn 1
 service netsvc1 interface ipsec1 ipsec2

 from-vsmart lists vpn-list 1
 vpn 1
- vpn 0
 service netsvc1 interface ipsec1 ipsec2

 vpn-list 1
 count ServicePsec1_275676046
 from-vsmart lists vpn-list 0
 vpn 0

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

Answer: C

NEW QUESTION 29

In which VPN is the NAT operation on an outgoing interface configured for direct Internet access?

- A. 1
- B. 10
- C. 512

Answer: D

NEW QUESTION 30

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

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

Answer: B

Explanation:

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

NEW QUESTION 33

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

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

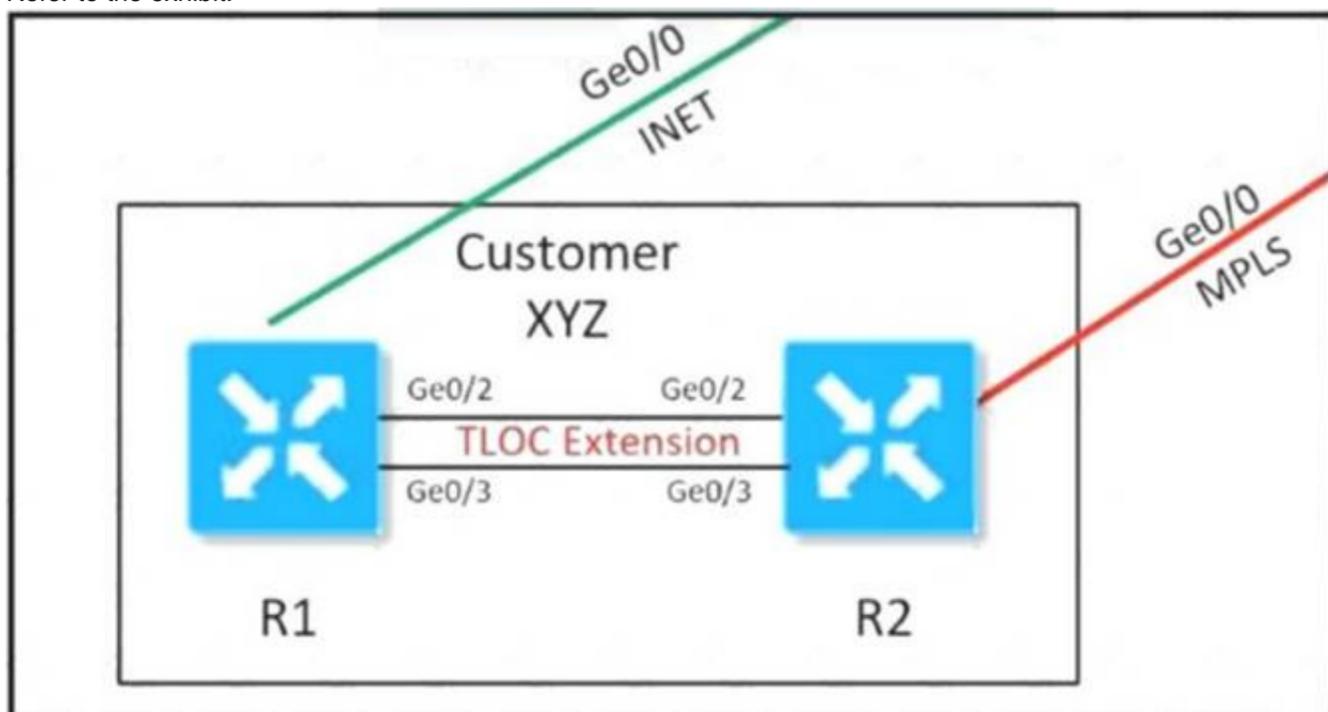
Answer: A

Explanation:

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

NEW QUESTION 35

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
            
```

```

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
C.

R2
interface ge0/2
 ip address 43.43.43.1/30

interface ge0/3
 ip address 34.34.34.1/30

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
D.

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 37

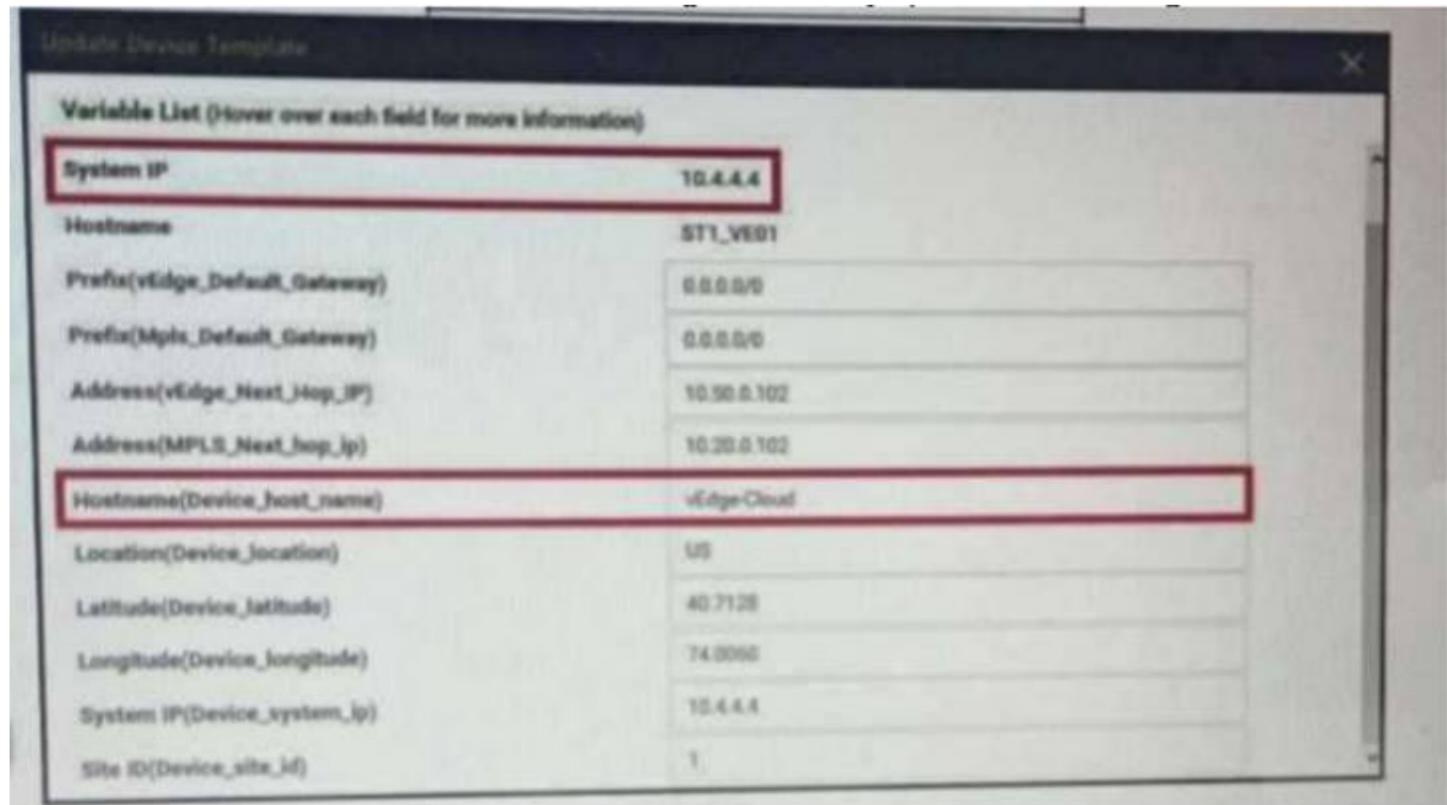
A vEdge platform is sending VRRP advertisement messages every 10 seconds. Which value configures the router back to the default timer?

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

Answer: C

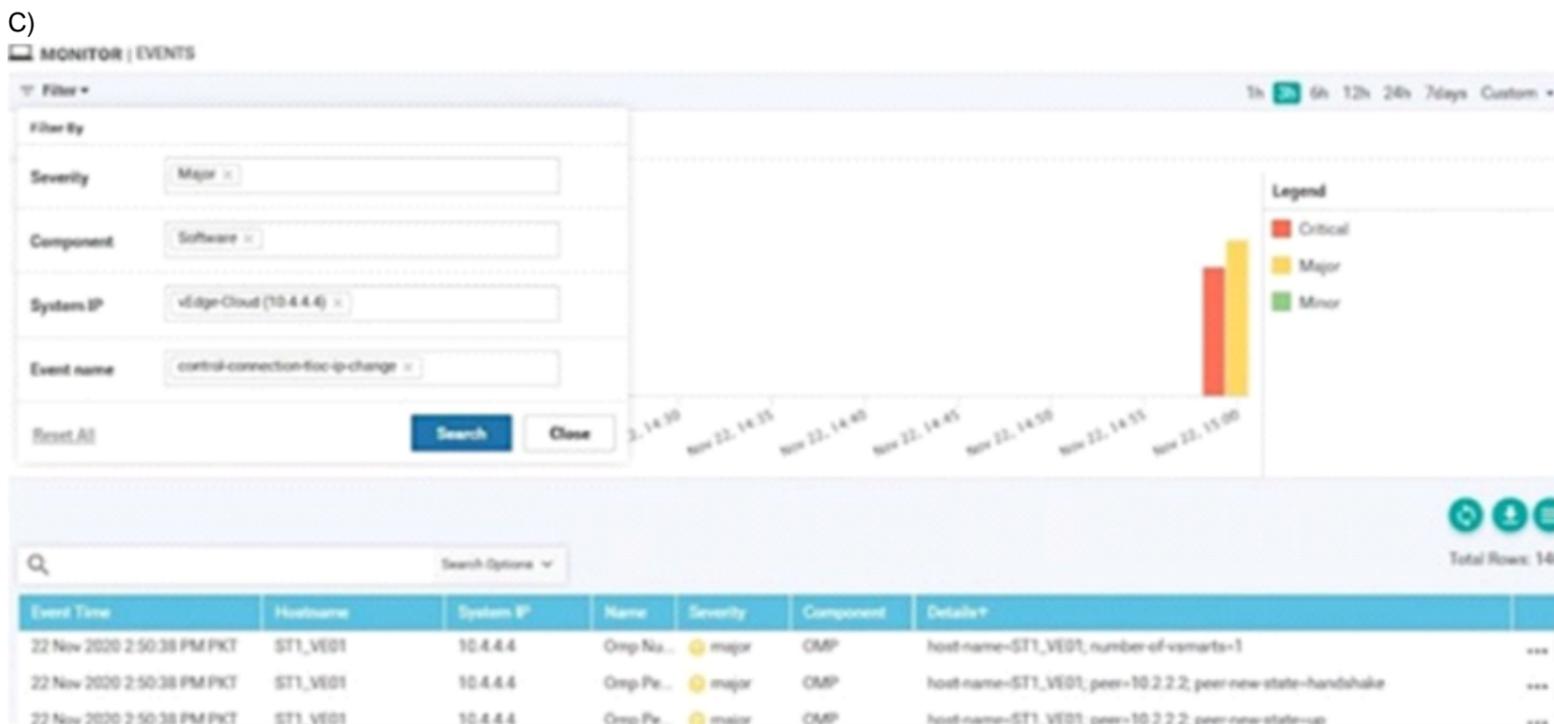
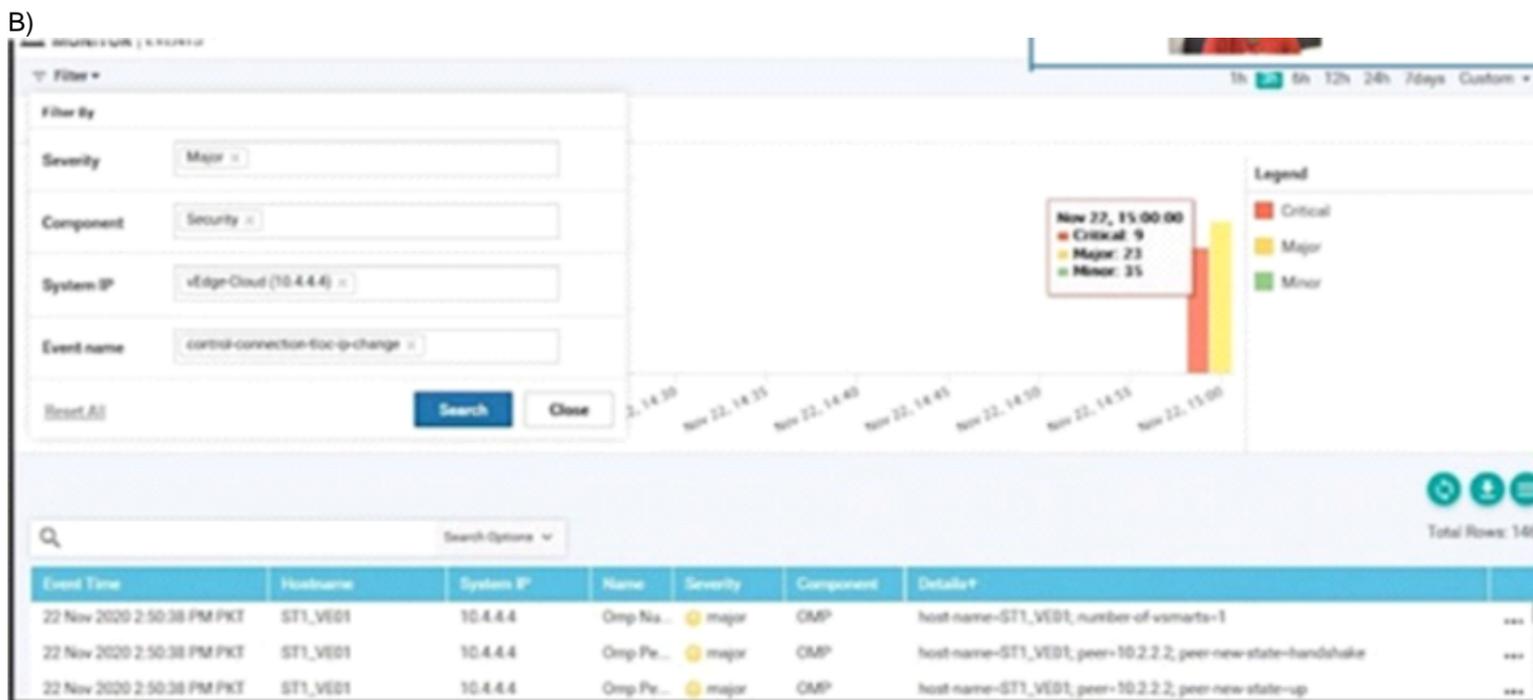
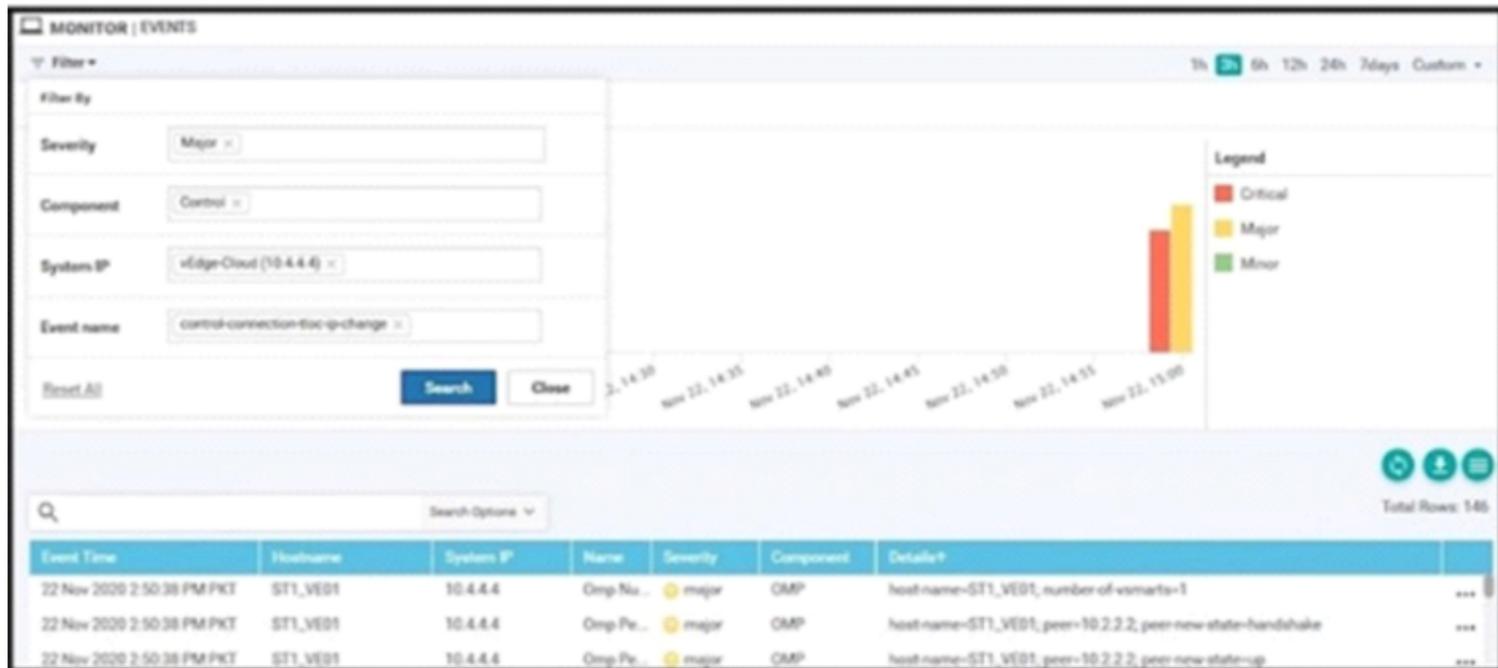
NEW QUESTION 39

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)



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

Answer: B

NEW QUESTION 40

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 45

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 47

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 51

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"> SHA-1 message digest SHA-256 message digest <p>Note 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>Note 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 55

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 59

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 62

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 67

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

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

Answer: D

NEW QUESTION 72

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 75

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

A)

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

B)

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

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

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

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

Answer: C

NEW QUESTION 79

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 81

Refer to the exhibit.

Hostname	State	System IP	Reachability	Site ID	Device Model	BFD	Control
BR1-VEGGE1	✔	10.3.0.1	reachable	300	vEdge Cloud	8	5

What does the BFD value of 8 represent?

- A. number of BFD sessions
- B. hello timer of BFD session
- C. poll-interval of BFD session.
- D. dead timer of BFD session

Answer: A

NEW QUESTION 85

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

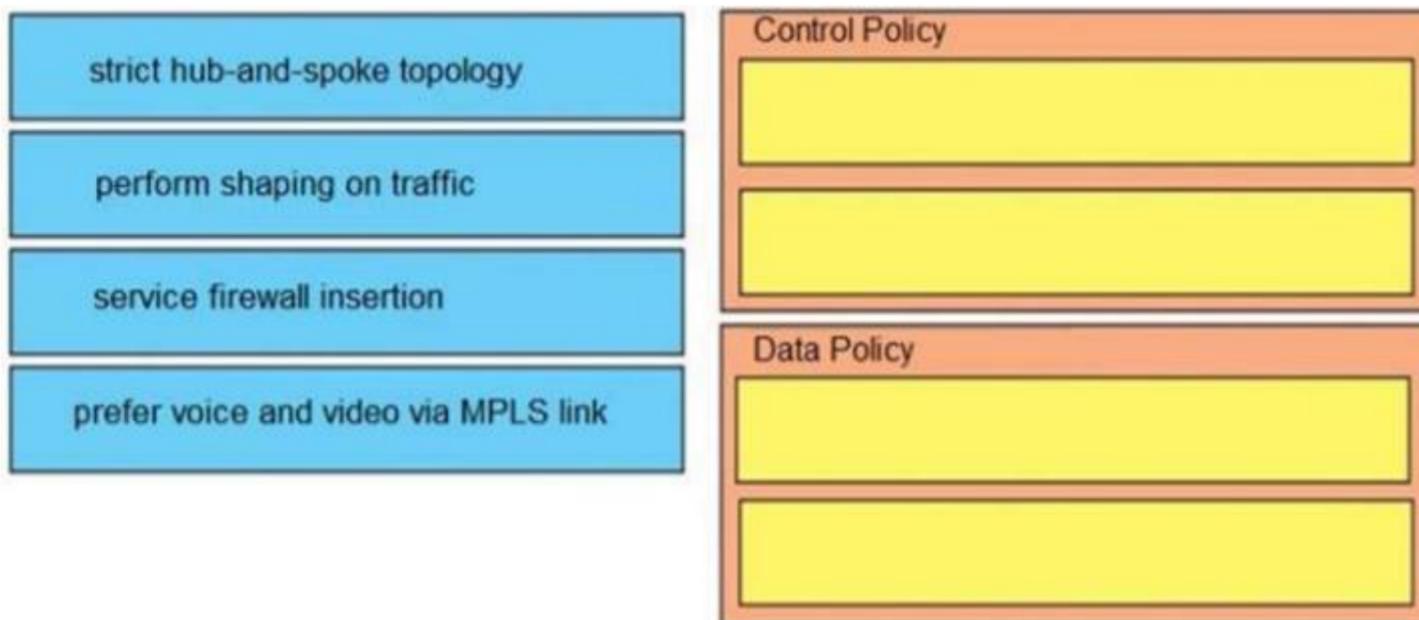
Answer: A

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 88

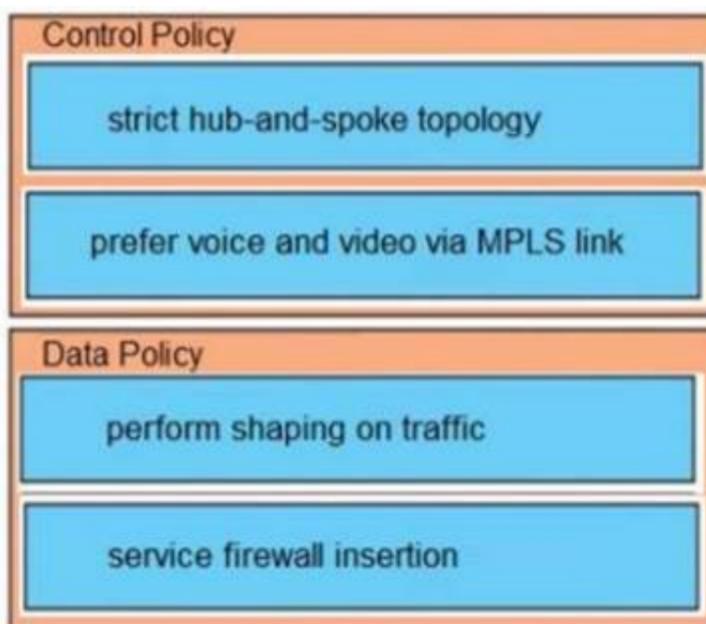
Drag and drop the policies from the left onto the correct policy types on the right.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 93

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 97

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

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

Answer: BE

Explanation:

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

NEW QUESTION 102

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 104

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

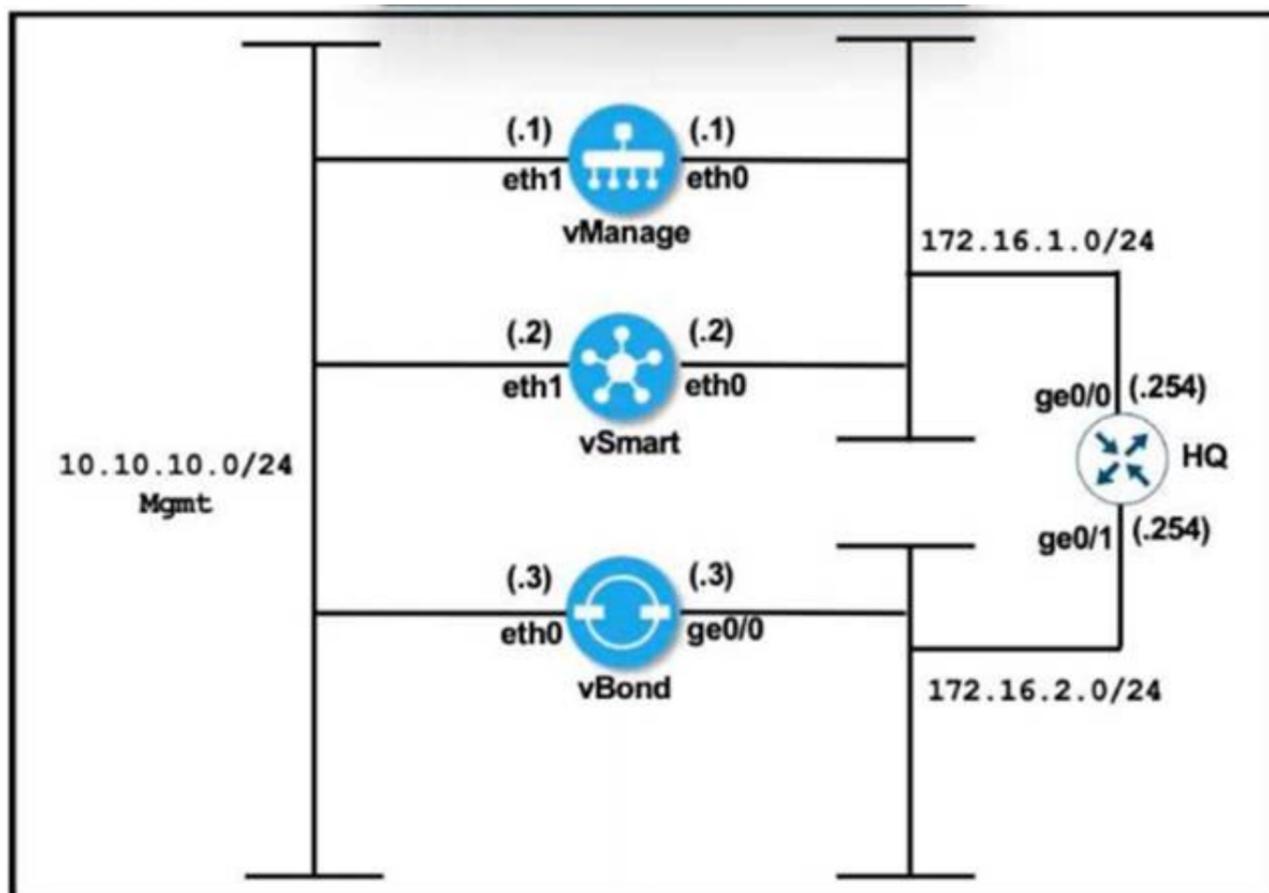
Answer: AE

Explanation:

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

NEW QUESTION 108

Refer to the exhibit.



<pre> vManage 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> vBond 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.

A.

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

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

B.

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

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

C.

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

D.

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

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

Answer: A

NEW QUESTION 119

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 124

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?

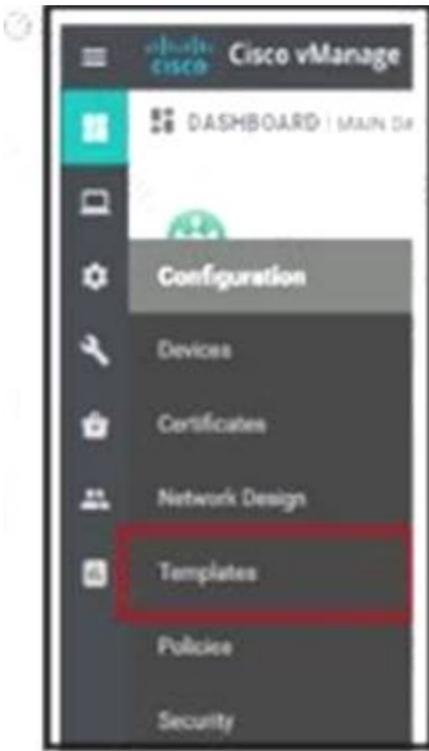
- A. BGP
- B. OSPF
- C. BFD
- D. OMP

Answer: D

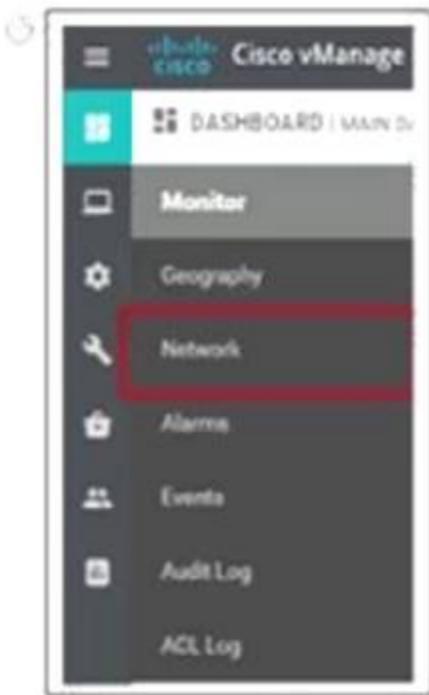
NEW QUESTION 129

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?

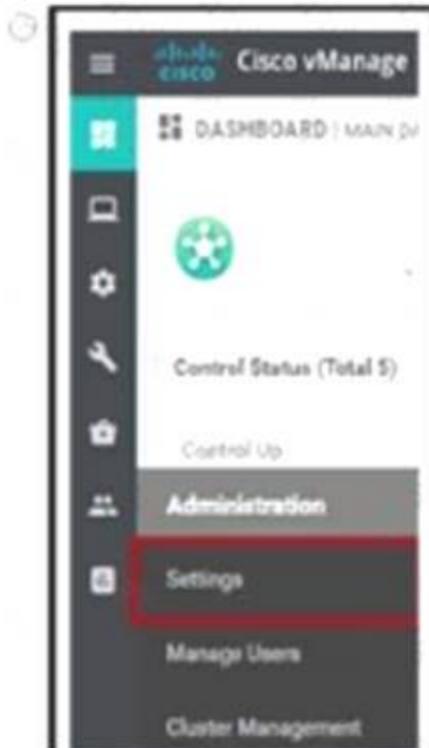
- A)



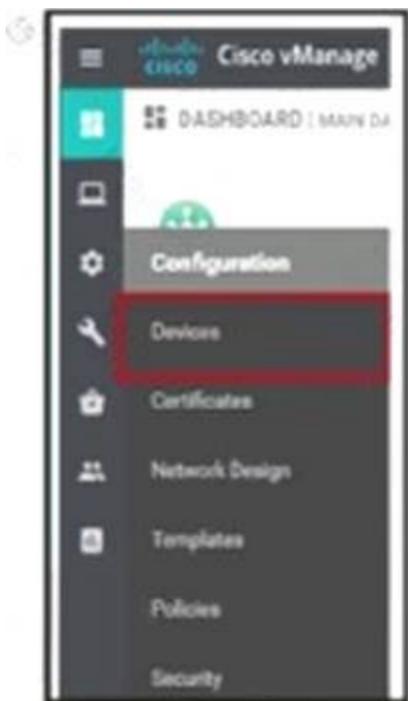
B)



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 132

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

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

Answer: D

NEW QUESTION 134

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 136

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 137

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 139

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

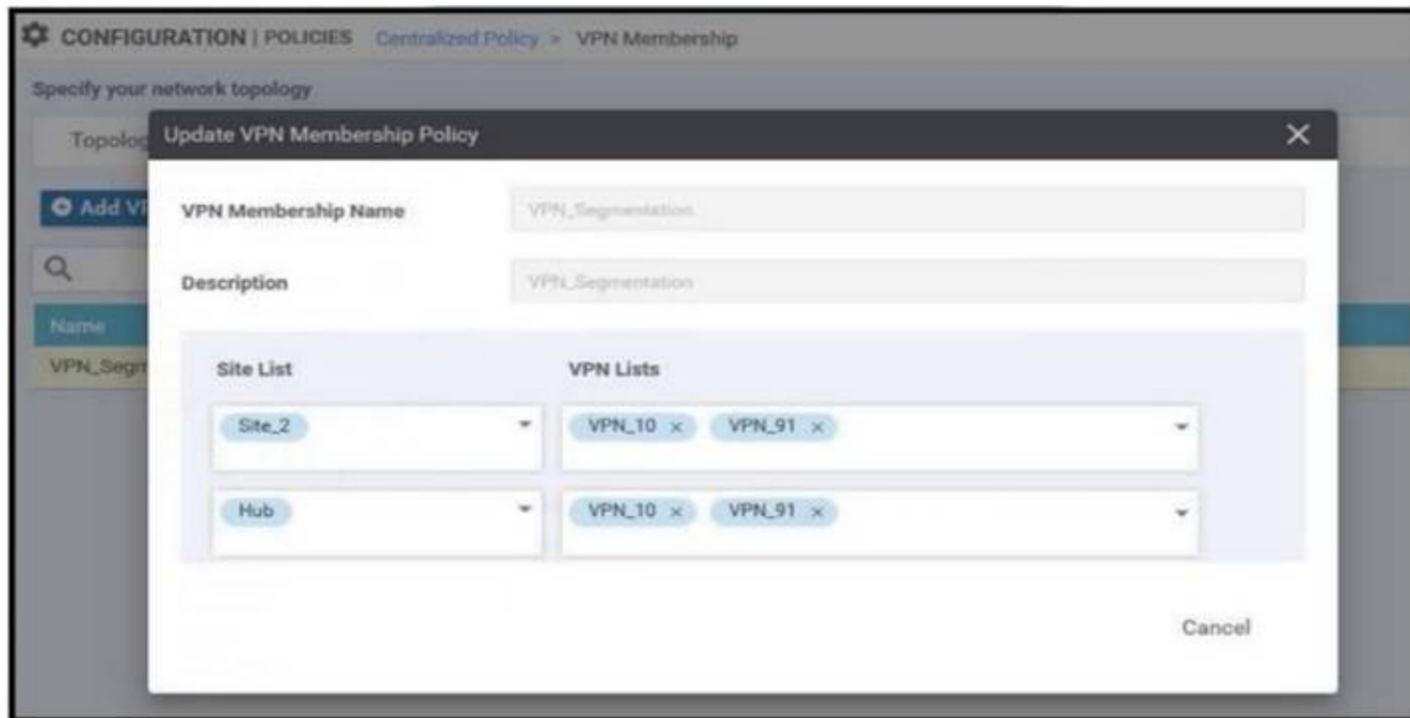
Answer: A

Explanation:

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

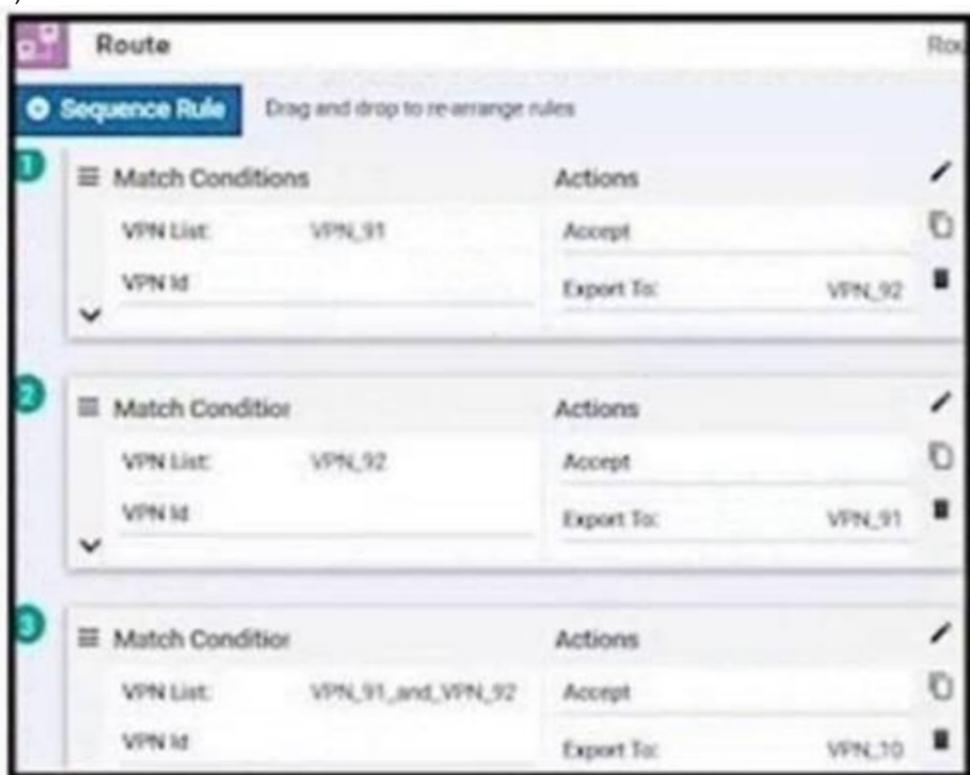
NEW QUESTION 140

Refer to the exhibit.

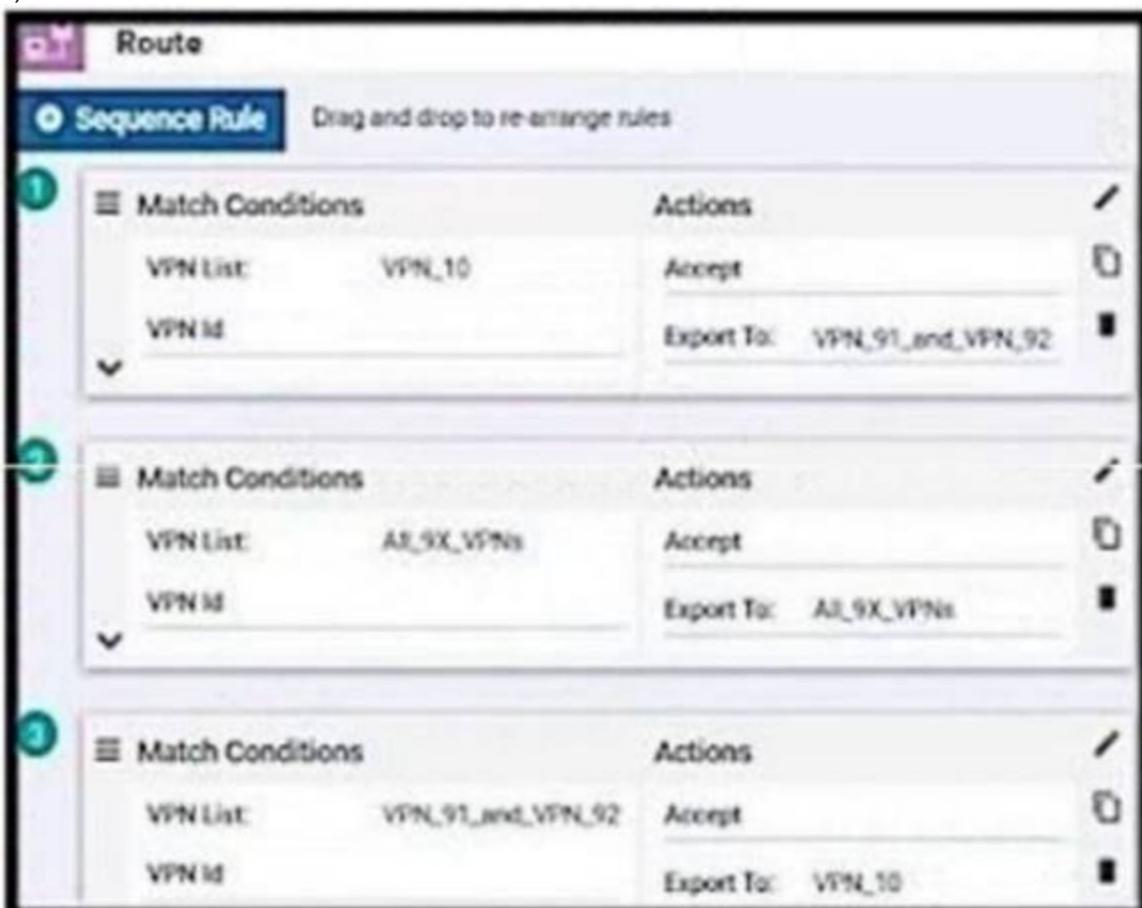


An enterprise has hub and spoke topology where it has several VPNs. An engineer must allow users in VPN91 to reach users in VPN92 and VPN10 to reach VPN91 and VPN92. Which configuration meets these requirements?

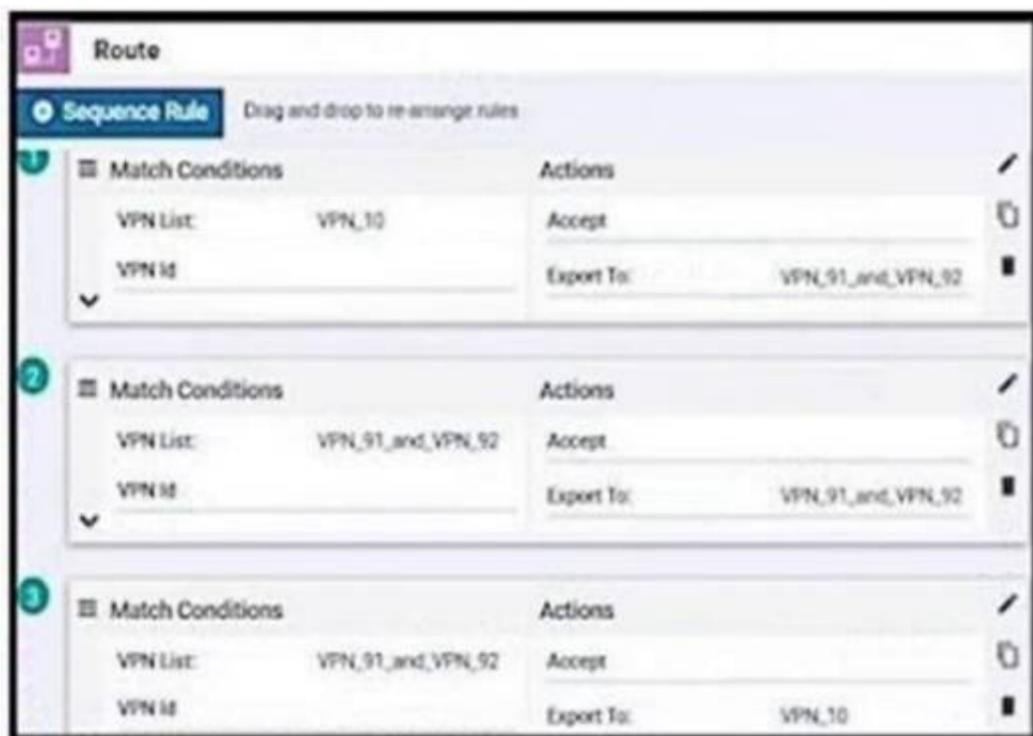
A)



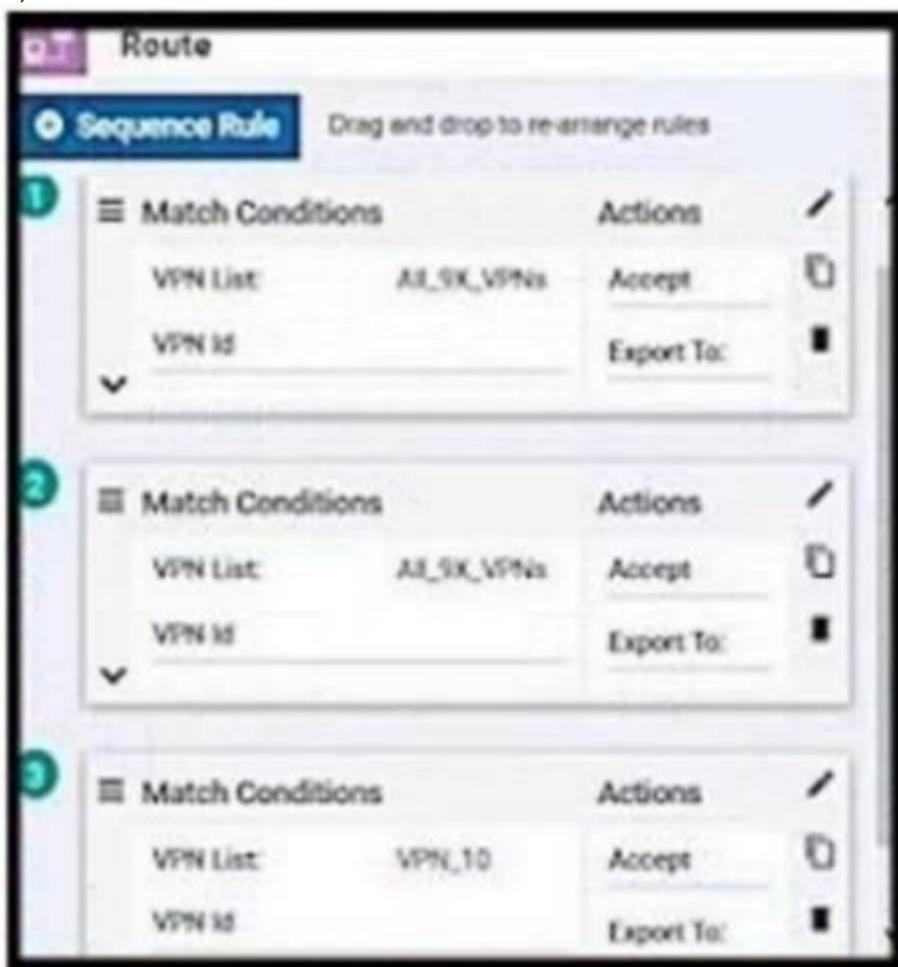
B)



C)



D)



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

Answer: C

NEW QUESTION 144

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 145

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 146

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

- A. https://vmanage_IP_address/dataservice/system/device/{{model}}
- B. http://vmanage_IP_address/dataservice/system/device/{{model}}
- C. http://vmanage_IP_address/api-call/system/device/{{model}}
- D. 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 147

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 152

A Cisco SD-WAN customer has a requirement to calculate the SHA value for files as they pass through the device to see the returned disposition and determine if the file is good, unknown or malicious. The customer also wants to perform real-time traffic analysis and generate alerts when threats are detected Which two Cisco SD-WAN solutions meet the requirements? (Choose two.)

- A. Cisco Trust Anchor Module
- B. Cisco Threat Grid
- C. Cisco Snort IPS
- D. Cisco AMP
- E. Cisco Secure Endpoint

Answer: CD

NEW QUESTION 155

Which feature template configures OMP?

A)

Section	Parameter	Type	Variable/value
Authentication	Authentication Order	Drop-down	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
	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)

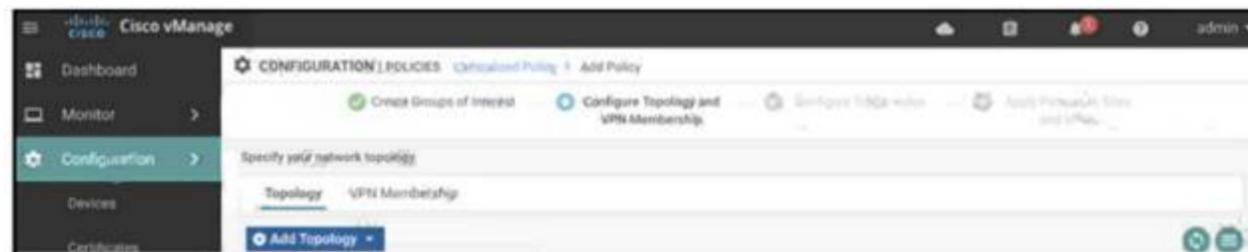
Section	Parameter	Type	Variable/value
Basic configuration	VPN	Global	512
	Name	Global	Management VPN
IPv4 Route	Prefix	Global	0.0.0.0/0
	Gateway	Radio button	Next Hop
	Next Hop	Device Specific	vpn512_mgt_next_hop_ip_addr

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

Answer: B

NEW QUESTION 158

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 161

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?

- ```

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

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

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

policy
action accept
D. set
policer App-police

```

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

**Answer: B**

#### NEW QUESTION 165

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 170

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 174

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

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

**Answer: D**

#### NEW QUESTION 177

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 178

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

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

**Answer:** D

#### NEW QUESTION 182

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

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

**Answer:** A

#### NEW QUESTION 186

How is TLOC defined?

- A. It is represented by a unique identifier to specify a site in an 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 a group of QoS policies applied to a WAN Edge router.

**Answer:** C

#### NEW QUESTION 191

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

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

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

**Answer:** C

#### Explanation:

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

## Command Hierarchy

sdwan

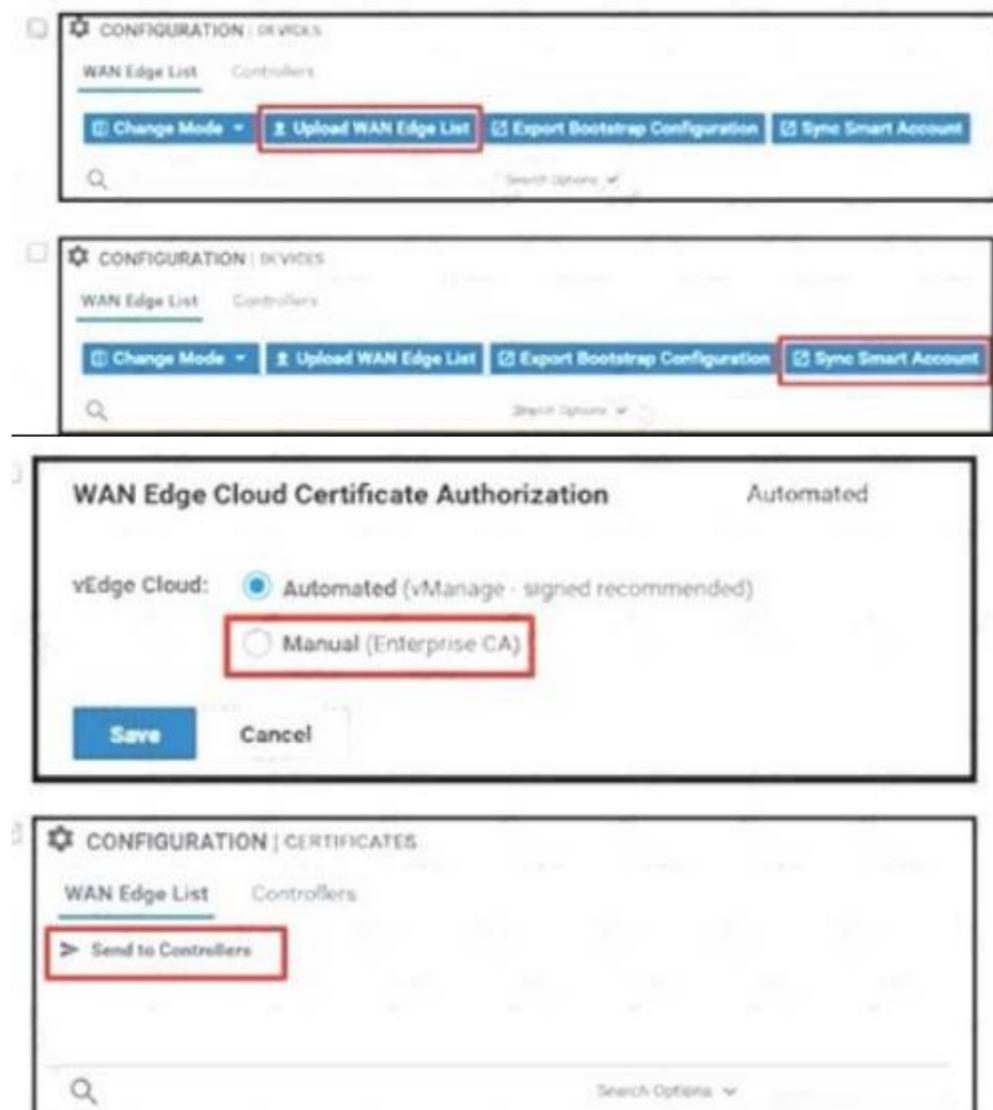
interface interface-name

tunnel-interface

tloc-extension-gre-to extended-interface-ip-address

### NEW QUESTION 192

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



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

**Answer:** AB

#### Explanation:

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

### NEW QUESTION 197

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 202**

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 203**

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 204**

Refer to the exhibit.

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

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

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

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

**Answer:** B

#### NEW QUESTION 207

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 212

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 215**

Refer to the exhibit

| PEER TYPE | PEER PROTOCOL | PEER SYSTEM | SITE IP | DOMAIN ID | PEER ID         | PRIVATE IP | PRIVATE PORT    | PEER PUBLIC IP | PUBLIC PORT  | LOCAL COLOR | STATE      | LOCAL ERROR | REMOTE ERROR | REPEAT COUNT |
|-----------|---------------|-------------|---------|-----------|-----------------|------------|-----------------|----------------|--------------|-------------|------------|-------------|--------------|--------------|
| vbond     | dtls          | -           | 0       | 0         | 209.165.200.230 | 12346      | 209.165.200.230 | 12346          | biz-internet | tear_down   | CTORGNMMIS | NOERR       | 14           |              |
| vbond     | dtls          | -           | 0       | 0         | 209.165.201.137 | 12346      | 209.165.201.137 | 12346          | biz-internet | tear_down   | CTORGNMMIS | NOERR       | 13           |              |

An engineer is getting a CTORGNMMIS error on a controller connection Which action resolves this issue?

- A. Configure a valid serial number on the WAN Edge
- B. Configure a valid organization name
- C. Configure a valid certificate on vSMART
- D. Configure a valid product ID

Answer: B

**NEW QUESTION 219**

Refer to the exhibit.

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

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

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

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

Answer: BC

**NEW QUESTION 224**

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

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

Answer: BC

**NEW QUESTION 227**

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 230**

Refer to the exhibit.

| PEER TYPE | PEER UPTIME | PEER PROTOCOL ID | PEER SYSTEM | SITE IP | PEER DOMAIN ID | PEER PRIVATE IP | PEER PRIVATE PORT | PEER PUBLIC IP | PUBLIC PORT | CONTROLLER LOCAL | CONTROLLER COLOR | GROUP 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 233**

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 236**

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

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

Answer: D

**Explanation:**

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

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

**NEW QUESTION 237**

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

A)

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

B)

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

C)

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

D)

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

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

**Answer: B**

**Explanation:**

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

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

**NEW QUESTION 239**

Which third-party Enterprise CA server must be used (or a cloud-based vSmart controller)?

- A. RootCert
- B. Microsoft
- C. RADIUS
- D. VeriSign

**Answer: A**

**NEW QUESTION 240**

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

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

**Answer:** CE

**Explanation:**

2. Virtual platforms

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

#### NEW QUESTION 242

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 246

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 251

Which value is verified in the certificates to confirm the identity of the physical WAN Edge device?

- A. Serial Number
- B. OTP
- C. System-IP
- D. Chassis-ID

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 255

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 256

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 258

Refer to the exhibit.

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

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

- logs
  - audit-disable
  - netconf-disable
- logs
  - netconf-disable
- logging
  - disk netconf-disable
- logging
  - disk
  - audit-disable
  - netconf-disable

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

**Answer: B**

**Explanation:**

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

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

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

**NEW QUESTION 261**

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 262**

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 265**

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

```
vManage# show certificate installed

Server certificate

Certificate:
 Data:
 Version: 1 (0x0)
 Serial Number:
 d0:d1:f0:e0:63:52:c9:3a
 Signature Algorithm: sha256WithRSAEncryption
 Issuer: C=UK, ST=ENG, L=London, O=ABC, CN=SDWAN.lab
 Validity
 Not Before: Jul 30 19:42:30 2020 GMT
 Not After : Jul 30 19:42:30 2021 GMT
 Subject: C=US, ST=California, L=San Jose, OU=ABC,
 O=vIPTela Inc, CN=vmanage-6842d5cf-ce74-41a0-9ff5-
 10e810f9ddab-0.vm
 Subject Public Key Info:
```

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

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

A)

```
Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

B)

```
Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

C)

```
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 268**

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 273**

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

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

**Answer:** A

**NEW QUESTION 276**

Which issue triggers the Cisco Umbrella resolver to forward DNS requests to the intelligent proxy? Which issue triggers the Cisco Umbrella resolver to forward DNS requests to the intelligent proxy?

- A. A domain is nonexistent.
- B. A domain is block-listed.
- C. A domain is locally reachable.
- D. A domain is grey-listed.

**Answer:** D

**NEW QUESTION 281**

An engineer configures policing with a rate of 125 Bps and a burst rate of 8000 bits, as shown here:

```
policy
 policer p1
 rate
 burst
 exceed drop
!
access-list acl1
 sequence 1
 match
 source-ip 2.2.0.0/16
 destination-ip 10.1.1.0/24 100.1.1.0/24
 destination-port 20 30
 protocol 6 17 23
!
action accept
 policer p1
!
default-action drop
!
vpn 1
 interface ge0/4
 description Policy ID: B413:A88D:76G7::4
 ip address 10.20.24.15/24
 no shutdown
 access-list acl1 out
!
```

Which configuration completes this task?

- A. Configure 125 for rate and 1000 for burst.
- B. Configure 1000 for rate and 64000 for burst
- C. Configure 125 for rate and 8000 for burst
- D. Configure 1000 for rate and 1000 for burst

**Answer:** D

**NEW QUESTION 283**

What is a default protocol for control plane connection?

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

D. DTLS

**Answer:** D

**NEW QUESTION 285**

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

A)

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

B)

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

C)

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

D)

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

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

**Answer:** B

**NEW QUESTION 286**

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

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

**Answer:** A

**NEW QUESTION 291**

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 295**

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

- vpn 0  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service sshd  
allow-service netconf  
no shutdown
- A.
- vpn 512  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service sshd  
allow-service netconf
- B.
- vpn 0  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service sshd  
allow-service ntp
- C.
- vpn 512  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service netconf  
no allow-service ntp  
no allow-service stun
- D.

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

**Answer: A**

#### NEW QUESTION 299

What is an attribute of TLOC'?

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

**Answer: C**

#### NEW QUESTION 303

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