



Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

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NEW QUESTION 1

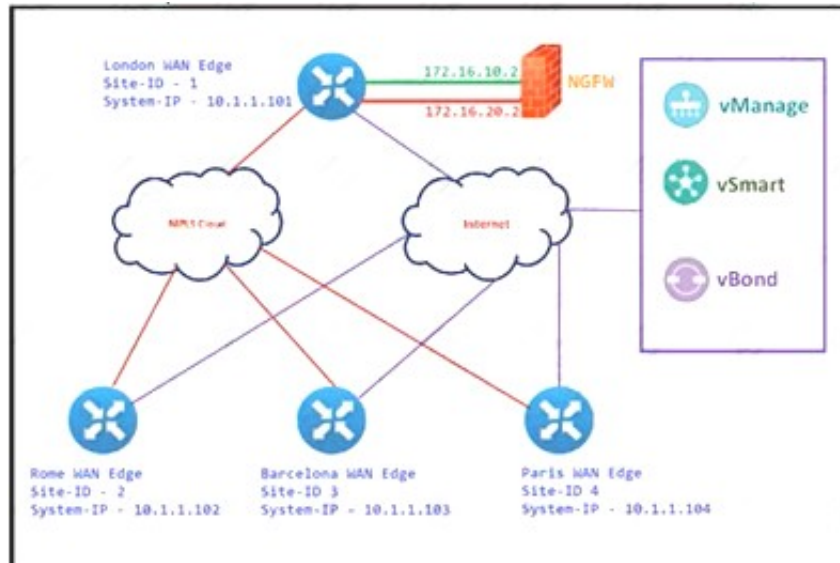
Which two image formats are supported for controller codes? (Choose two.)

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

Answer: BC

NEW QUESTION 2

Refer to the exhibit.



The Cisco SD-VYAN is deployed using the default topology. The engineer v/ants to configure a service insertion policy such that all data traffic between Rome to Paris is forwarded through the NGFW located in London. Which configuration fulfills this requirement, assuming that the Service VPN ID is 1?

A)

```

London WAN Edge
vpn 1
 service netsvc1 address 172.16.10.2
 service netsvc2 address 172.16.20.2

vSmart Policy
policy
 lists
  site-list ROME
  site-id 2
  site-list PARIS
  site-id 4
 control-policy NGFW-SI
 sequence 1
  match route
  site-id ROME
  action accept
  set service netsvc1 vpn 1
 sequence 2
  match route
  site-id PARIS
  action accept
  set service netsvc2 vpn 1
 default-action accept
 !
 apply-policy
 site-list ROME
 control-policy NGFW-SI out
 !
 site-list PARIS
 control-policy NGFW-SI out

```

B)

```

London WAN Edge
vpn 1
 service netsvc1 address 172.16.10.2
 service netsvc2 address 172.16.20.2

vSmart Policy
policy
 lists
  site-list ROME
  site-id 2
  site-list PARIS
  site-id 4
 control-policy NGFW-SI
 sequence 1
  match route
  site-id ROME
  action accept
 sequence 2
  match route
  site-id PARIS
  action accept
 default-action accept
 !
 apply-policy
 site-list ROME control-policy NGFW-SI out

```

C)

```
○ ROME WAN Edge
service FW address 10.1.1.101

PARIS WAN Edge
service FW address 10.1.1.101

vSmart Policy
policy
lists
  site-list ROME
  site-id 2
  site-list PARIS
  site-id 4
control-policy NGFW-SI
sequence 1
  match route
  site-id ROME
  action accept
  set service netsvc1 vpn 1
sequence 2
  match route
  site-id PARIS
  action accept
  set service netsvc2 vpn 1
default-action accept
!
apply-policy
site-list ROME
control-policy NGFW-SI out
!
site-list PARIS
control-policy NGFW-SI out
```

D)

```
○ ROME WAN Edge
service FW address 10.1.1.101

PARIS WAN Edge
service FW address 10.1.1.101

vSmart Policy
policy
lists
  site-list ROME
  site-id 2
  site-list PARIS
  site-id 4
control-policy NGFW-SI
sequence 1
  match route
  site-id ROME
  action accept
sequence 2
  match route
  site-id PARIS
  action accept
default-action accept
!
apply-policy
site-list ROME control-policy NGFW-SI out
```

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

Answer: A

NEW QUESTION 3

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

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

Answer: A

Explanation:

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

NEW QUESTION 4

Refer to the exhibit.

```
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 5

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 6

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

A)



The screenshot shows the 'TUNNEL' configuration page in a Cisco SD-WAN management interface. The page has a dark header with the word 'TUNNEL'. Below the header, there are several configuration sections, each with a label on the left and a control on the right. The sections are: 'Tunnel Interface' (with 'On' and 'Off' radio buttons), 'Color' (with a dropdown menu showing 'lte'), 'Restrict' (with 'On' and 'Off' radio buttons), 'Groups' (with a text input field), 'Border' (with 'On' and 'Off' radio buttons), 'Control Connection' (with 'On' and 'Off' radio buttons), 'Maximum Control Connections' (with a text input field containing '1', highlighted with a blue border), 'vBond As Stun Server' (with 'On' and 'Off' radio buttons), 'Exclude Controller Group List' (with a text input field), 'vManage Connection Preference' (with a text input field), 'Port Hop' (with 'On' and 'Off' radio buttons), and 'Low-Bandwidth Link' (with 'On' and 'Off' radio buttons).

B)

TUNNEL

Tunnel Interface

On

Off

Color

mgls

Restrict

On

Off

Groups

Border

On

Off

Control Connection

On

Off

Maximum Control Connections

vBond As Stun Server

On

Off

Exclude Controller Group List

vManage Connection Preference

Port Hop

On

Off

Low-Bandwidth Link

On

Off

- C)
Miss
D)

TUNNEL

Tunnel Interface

On

Off

Color

mgls

Restrict

On

Off

Groups

Border

On

Off

Control Connection

On

Off

Maximum Control Connections

0

vBond As Stun Server

On

Off

Exclude Controller Group List

vManage Connection Preference

Port Hop

On

Off

Low-Bandwidth Link

On

Off

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

Answer: A

NEW QUESTION 7

What is the role of the Session Traversal Utilities for NAT server provided by the vBond orchestrator?

- A. It facilitates SD-WAN toners and controllers to discover their own mapped or translated IP addresses and port numbers

- B. It prevents SD-WAN Edge routers from forming sessions with public transports among different service providers
- C. It facilitates SD-WAN Edge routers to stay behind a NAT-enabled firewall while the transport addresses of the SD-WAN controller are unNAT-ed
- D. It allows WAN Edge routers to form sessions among MPLS TLOCs using only public IP addresses

Answer: C

NEW QUESTION 8

Refer to the exhibit, which configuration configures IPsec tunnels in active and standby?

```
from-vsmart data-policy_1_ServiceIserctionIPSec
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
```

- ☒ 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

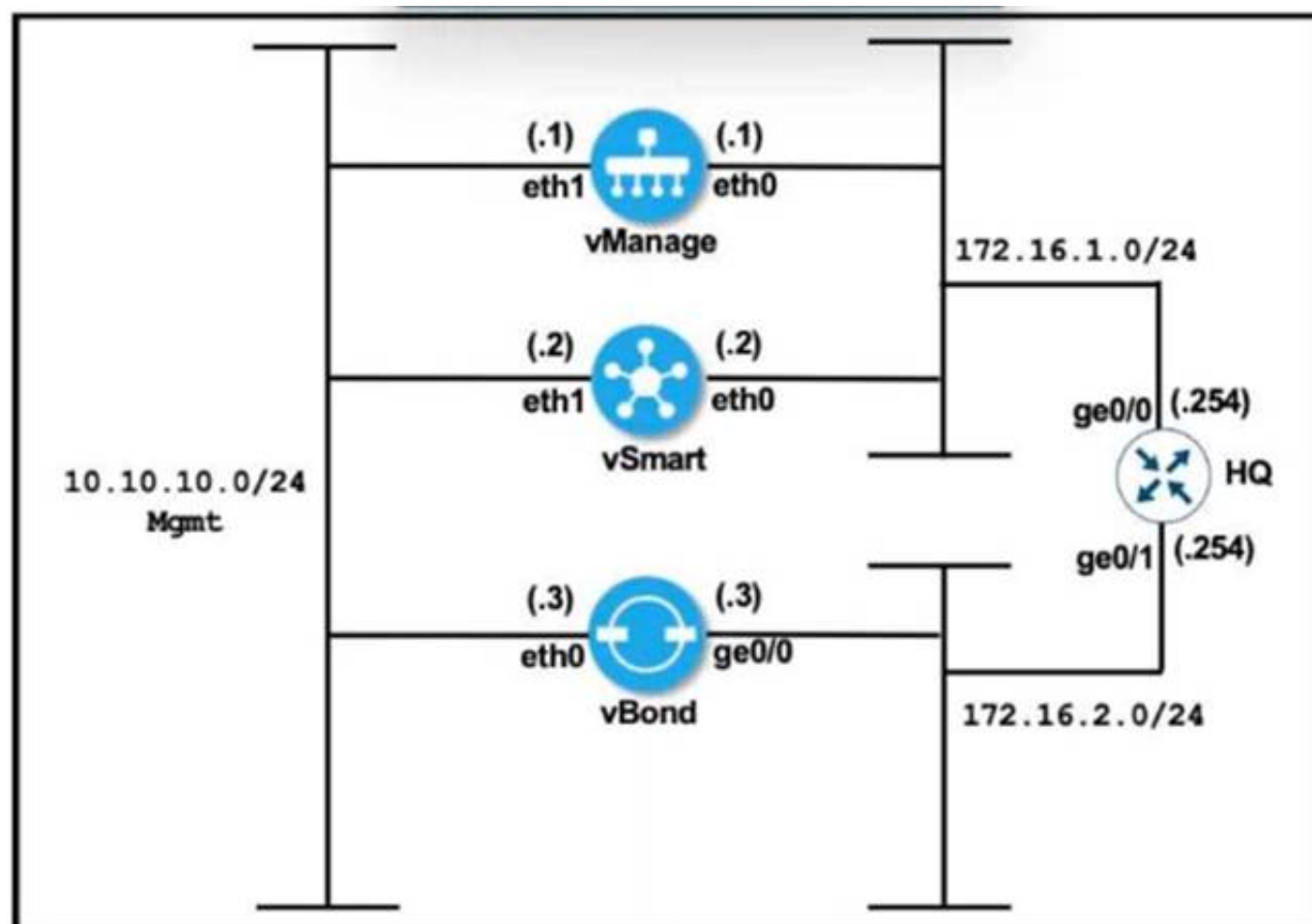
vpn-list 1
count ServicePSEC1_275676046
from-vsmart lists vpn-list 0
vpn 0

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

Answer: C

NEW QUESTION 9

Refer to the exhibit.



vManage	vBond
<pre> system system-ip 10.10.10.101 host-name vManage site-id 1 clock timezone Europe/London vbond 172.16.2.1 organization-name Cisco.com ! vpn 0 interface eth1 ip address 172.16.1.1/24 no shut tunnel-interface allow-service all ip route 0.0.0.0/0 172.16.1.254 ! commit </pre>	<pre> system system-ip 10.10.10.103 host-name vBond site-id 1 clock timezone Europe/Rome vbond 172.16.2.1 local organization-name Cisco.com ! vpn 0 interface ge0/0 ip address 172.16.2.1/24 no shut tunnel-interface encapsulation ipsec allow-service all ip route 0.0.0.0/0 172.16.1.254 ! commit </pre>

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

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

Answer: C

NEW QUESTION 10

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 10

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

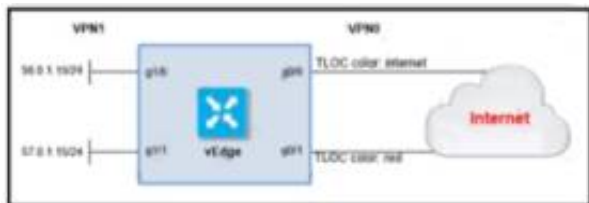
- A. To be downloaded over a SMTP connection
- B. To be downloaded over a SNMP connection
- C. To be downloaded over an out-of-band connection
- D. To be downloaded over a control plane connection

E. To be downloaded over an ICMP connection

Answer: CD

NEW QUESTION 14

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 16

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 17

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

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

Answer: A

NEW QUESTION 18

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

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

Answer: BE

NEW QUESTION 20

Refer to the exhibit

PEER	PEER	PEER	SITE	DOMAIN	PEER	PRIVATE	PEER	PUBLIC		LOCAL	REMOTE	REPEAT		
TYPE	PROTOCOL	SYSTEM	IP	ID	ID	PRIVATE IP	PORT	PUBLIC IP	PORT	COLOR	STATE	ERROR	ERROR	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 25

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

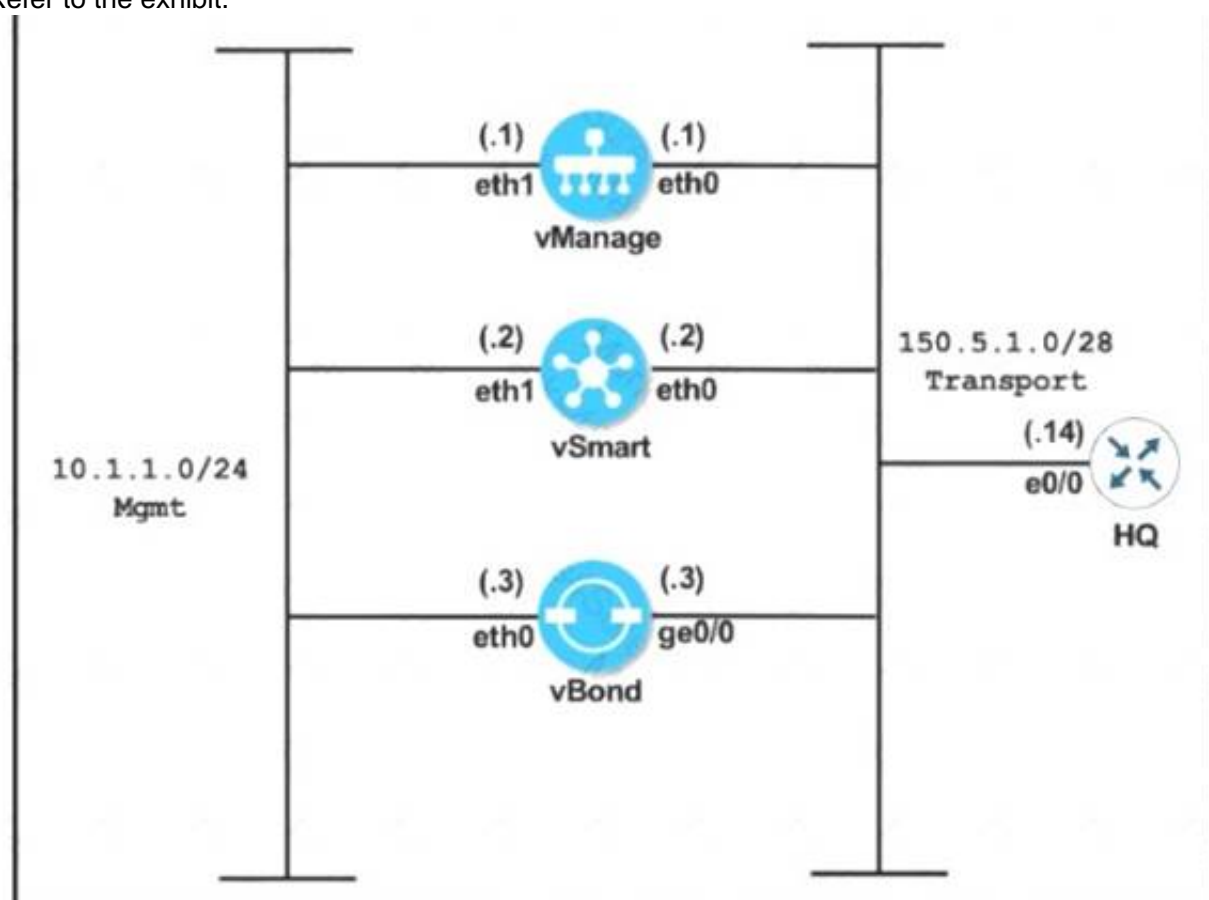
Explanation:

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

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 32

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

☐

vpn 512

interface eth1

ip address 199.1.1.1/28

tunnel-interface

allow-service netconf

no allow-service ntp

no allow-service stun

☐

vpn 0

interface eth1

ip address 199.1.1.1/28

tunnel-interface

allow-service sshd

allow-service ntp

☐

vpn 512

interface eth1

ip address 199.1.1.1/28

tunnel-interface

allow-service sshd

allow-service netconf

☐

vpn 0

interface eth1

ip address 199.1.1.1/28

tunnel-interface

allow-service sshd

allow-service netconf

no shutdown

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

Answer: D

NEW QUESTION 34

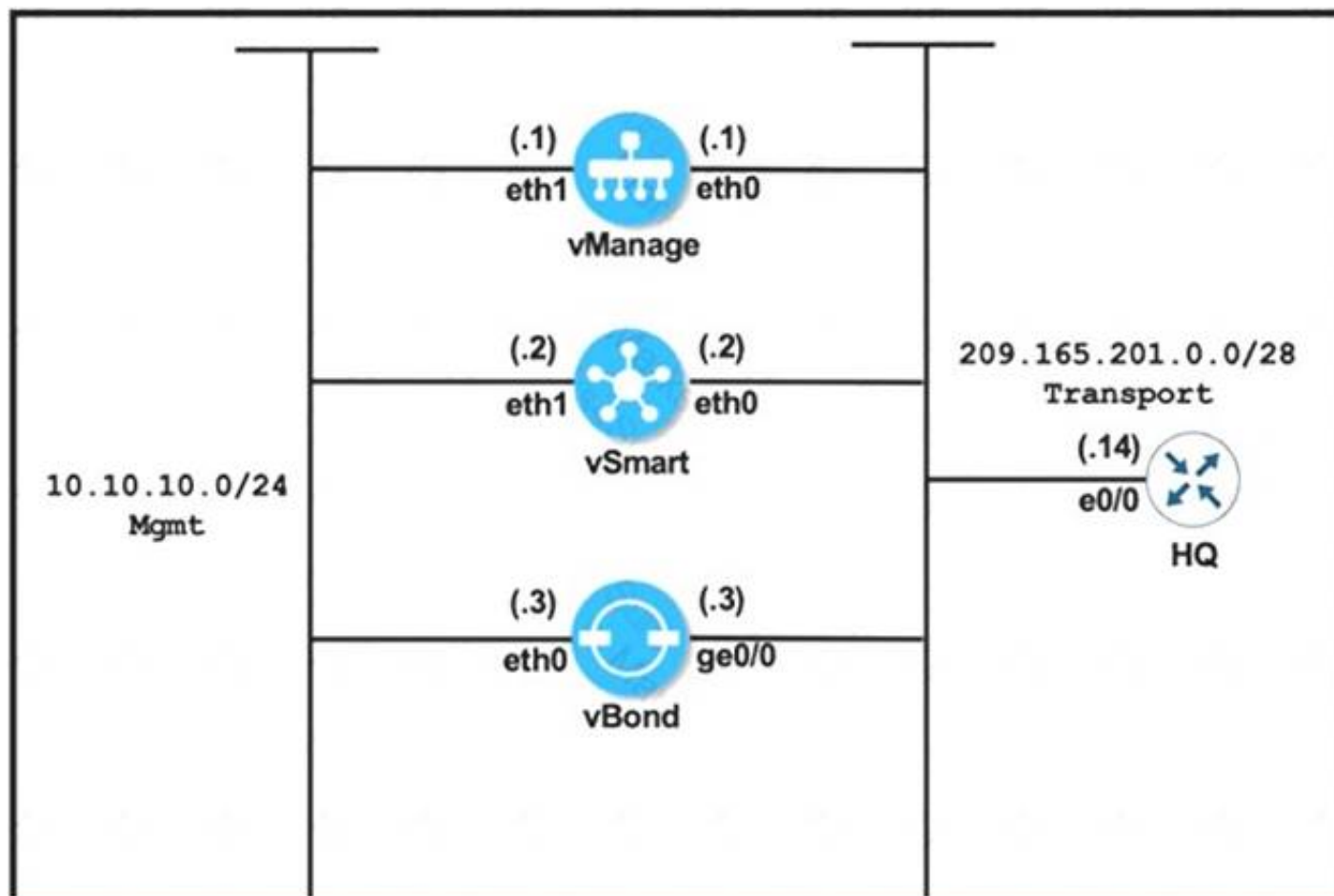
Which two virtualized environments are available for a company to install the controllers using the on-premises model? (Choose two)

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

Answer: AD

NEW QUESTION 39

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 vipteta.com.
- C. Remove the encapsulation ipsec command under the tunnel interface of vBond
- D. Configure the encapsulation ipsec command under the tunnel interface on vManage

Answer: B

Explanation:

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

NEW QUESTION 40

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

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

Answer: AB

NEW QUESTION 44

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 47

A network administrator configures SNMPv3 on a Cisco WAN Edge router from CLI for monitoring purposes. How many characters are supported by the `snmp user <username>` command?

- A. from 1 to 8
- B. from 1 to 16
- C. from 1 to 32
- D. from 1 to 48

Answer: C

NEW QUESTION 51

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 packet 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 56

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

IP address	target1
color	target2
encapsulation	target3
VPN	
service	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 60

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 63

Which two metrics must a cloud Edge router use to pick the optimal path for a SaaS application reachable via a gateway site? (Choose two.)

- A. HTTP loss and latency metrics to the SaaS application
- B. ICMP loss and latency metrics to the SaaS application
- C. BFD loss and latency metrics to the gateway site
- D. BFD loss and latency metrics to the SaaS application
- E. HTTP loss and latency metrics to the gateway site

Answer: AC

Explanation:

-The gateway vEdge uses HTTP to obtain SaaS application performance information - The client vEdge will use BFD over the IPSec tunnel to the gateway site to obtain client>gateway path performance information

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Cloud-onRamp-for-SaaS>

NEW QUESTION 68

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

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

Answer: C

NEW QUESTION 73

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

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

Answer: C

NEW QUESTION 75

Refer to the exhibit



The network team must configure application-aware routing for the Service VPN 50.0.0.0/16

The SLA must prefer MPLS for video traffic but the remaining traffic must use a public network What must be defined other than applications before the application-aware policy is create?

- A. SLA Class, Site VP
- B. Prefix
- C. Data Prefix, Site VPN TLOC
- D. Application, SLA VP
- E. Prefix
- F. Color, SLA Class, Sue, VPN

Answer: A

NEW QUESTION 80

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 85

Refer to the exhibit

```
vManage#show control local-properties
personality                vmanage
sp-organization-name       Cisco
organization-name          Cisco
system-ip                  10.1.1.10
root-ca-chain-status       Installed
certificate-status          Installed
```

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

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

Answer: D

NEW QUESTION 86

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

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

VPN 512	route-map
VPN 0	VPN 0
route-map	VPN 512
organization name	VPN 10
VPN 10	organization name

NEW QUESTION 87

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 89

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 93

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

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

NEW QUESTION 98

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

A)

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

B)

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

C)

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

D)

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


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

Answer: C

NEW QUESTION 101

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

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

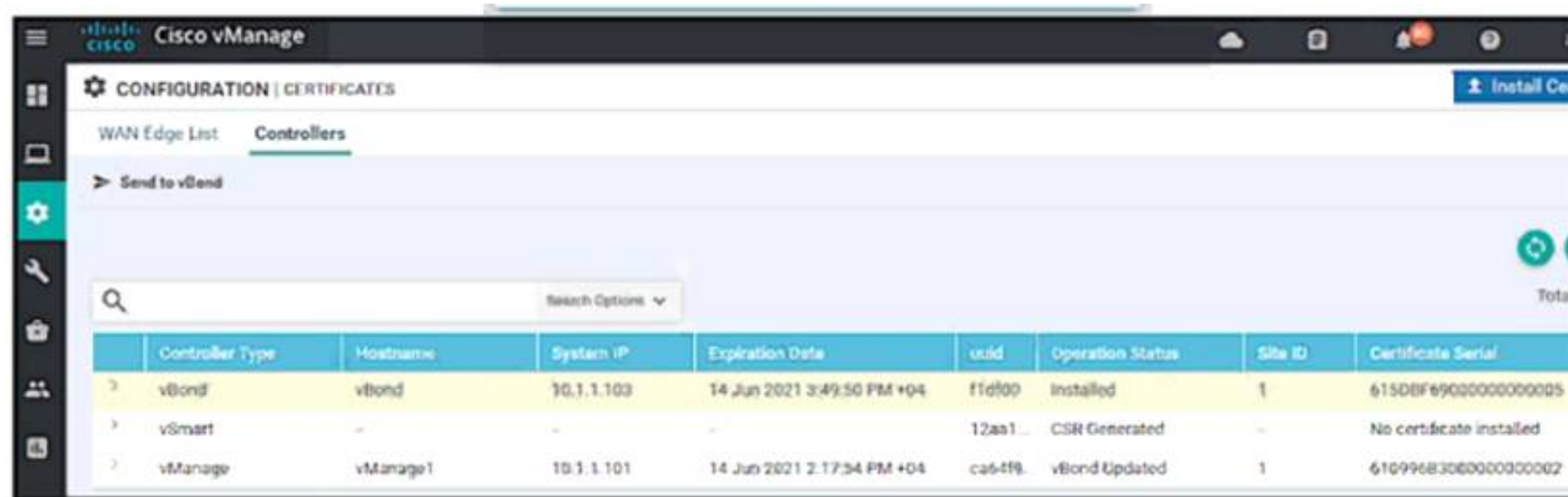
Answer: B

Explanation:

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

NEW QUESTION 106

Refer to the exhibit



	Controller Type	Hostname	System IP	Expiration Date	uuid	Operation Status	Site ID	Certificate Serial
2	vBond	vBond	10.1.1.103	14 Jun 2021 3:49:50 PM +04	f1d500	Installed	1	615DBF69000000000005
3	vSmart	-	-	-	12aa1...	CSR Generated	-	No certificate installed
2	vManage	vManage1	10.1.1.101	14 Jun 2021 2:17:34 PM +04	ca6-4f8...	vBond Updated	1	616996B3060000000002

vManage and vBond have an issue establishing a connection to vSmart Which two actions does the administrator take to fix the issue? (Choose two)
 Install the certificate received from the certificate server.

- A. Manually resync vManage and vBond
- B. Reconfigure the vSmart from CLI with the proper Hostname & System IP
- C. Delete and re-add vSmart Click Generate and validate CSR
- D. Request a certificate from the certificate server based on the CSR for the vSmart

Answer: CD

NEW QUESTION 109

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

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

Answer: B

Explanation:

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

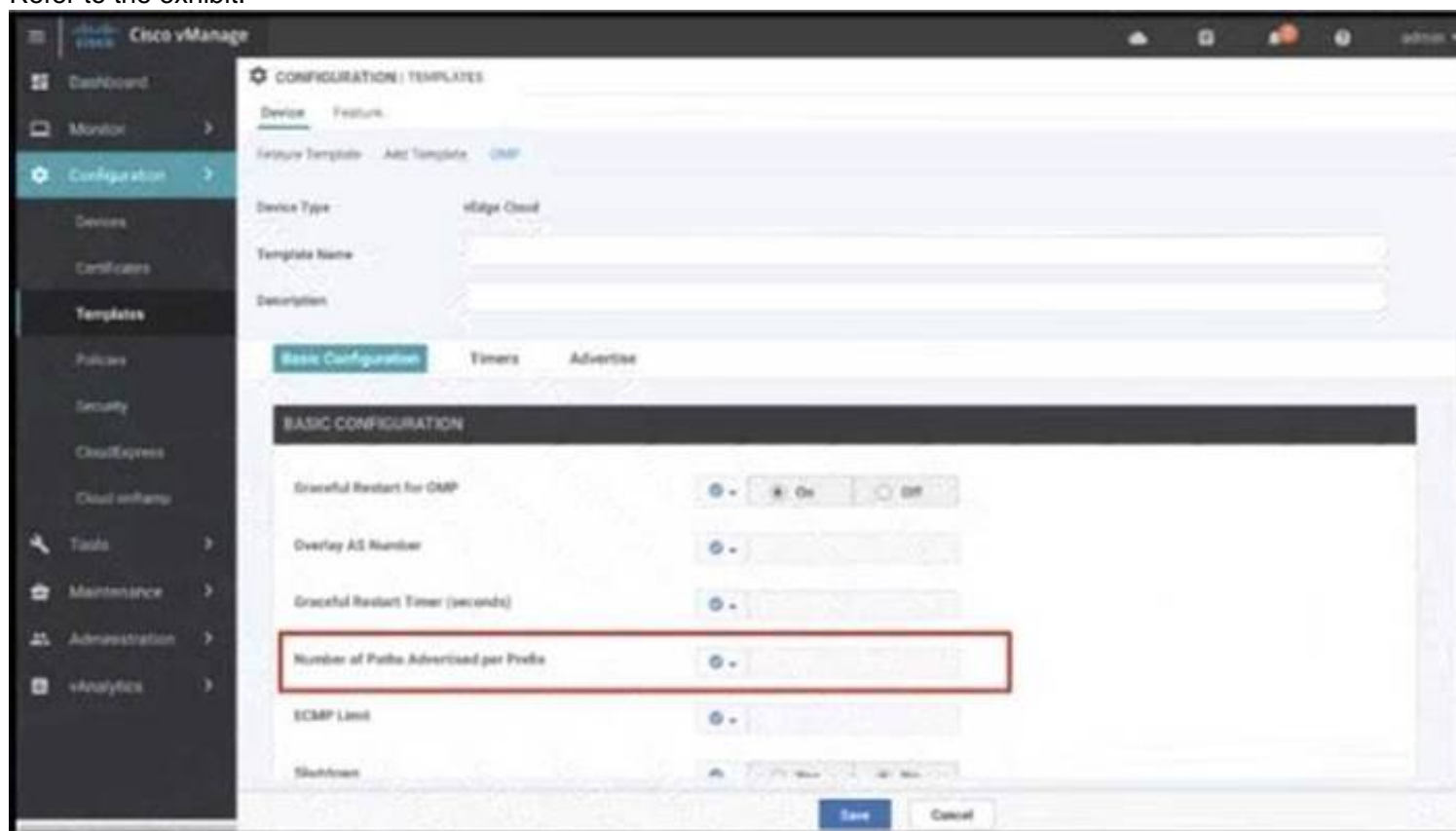
1. Use the same Autonomous System Numbers (ASN) on edge routers of the two datacenters. Because of the same ASN, the AS-PATH attribute will avoid learning the same prefixes on the edge routers that are advertised by the other datacenter towards the LAN side.

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

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

NEW QUESTION 114

Refer to the exhibit.



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

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

Answer: D

NEW QUESTION 116

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

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

Answer: C

NEW QUESTION 119

Which protocol is used between redundant vSmart controllers to establish a permanent communication channel?

- A. IPsec
- B. HTTPs
- C. DTLS
- D. SSL

Answer: C

NEW QUESTION 124

An engineer must configure local redundancy on a site. Which configuration accomplish this task?

- A. vpn 0 interface interface-name
- B. tloc extension interface name tloc extension interface interface name
- C. vpn 0 tloc extension interface
- D. interface-flame interface interface-name tloc-extension

Answer: A

NEW QUESTION 126

Refer to the exhibit.


```

policy
lists
!
tloc-list dc-preference-east
tloc 100.100.100.100 color mpls
encap ipsec preference 200
tloc 101.101.101.101 color mpls
encap ipsec preference 400
!
site-list sites-region-west
site-id 1-20
!
site-list sites-region-east
site-id 21-40
!
site-list dc-sites
site-id 100-101

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

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

```

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

A.

```

lists
tloc-list dc-preference-west
tloc 100.100.100.100 color 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 128

Which controller is excluded from the process of checking against the authorized, allowed list?

- A. vBond
- B. PnP
- C. vSmart
- D. vManage

Answer: A

NEW QUESTION 131

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 135

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

A)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template - OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP	<input type="radio"/> On <input checked="" type="radio"/> Off
Overlay AS Number	2
Graceful Restart Timer (seconds)	300
Number of Paths Advertised per Prefix	2
ECMP Limit	2
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No

B)

Feature Template Add Template - OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP	<input type="radio"/> On <input checked="" type="radio"/> Off
Overlay AS Number	1
Graceful Restart Timer (seconds)	33200
Number of Paths Advertised per Prefix	2
ECMP Limit	2
Shutdown	<input type="radio"/> Yes <input checked="" type="radio"/> No

C)

CONFIGURATION | TEMPLATES

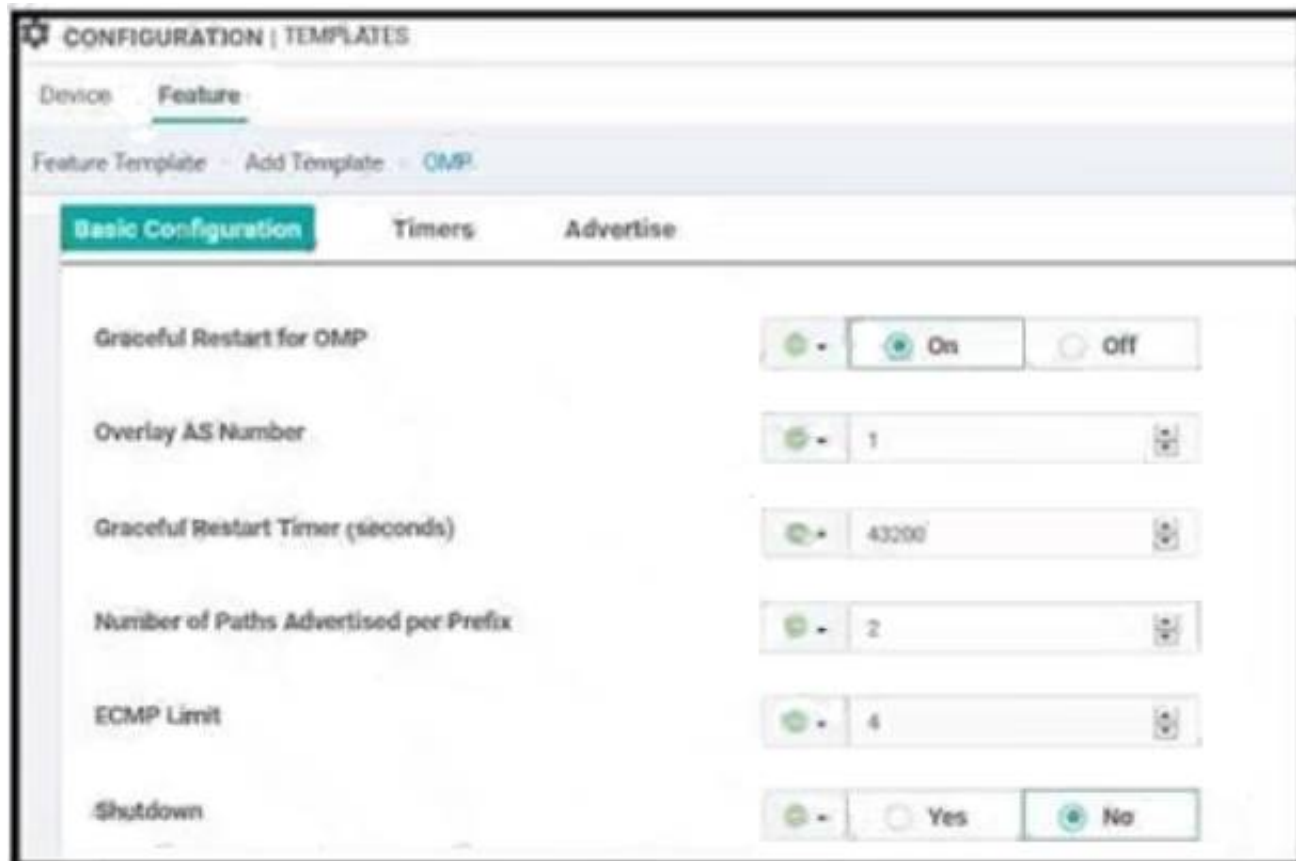
Device Feature

Feature Template Add Template - OMP

Basic Configuration Timers Advertise

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

D)



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

Answer: D

NEW QUESTION 137

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 139

Which logs verify when a device was upgraded?

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

Answer: A

NEW QUESTION 141

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

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

Answer: B

Explanation:

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

NEW QUESTION 145

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	Select the authentication mechanism for the user: <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 146

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 148

Which feature builds transport redundancy by using the cross link between two redundant WAN Edge routers?

- A. OMP
- B. zero-touch provisioning

- C. quality of service
- D. TLOC extension

Answer: D

Explanation:

Features like TLOC extension help to build transport redundancy by using the cross link between two redundant WAN Edge routers. Network level redundancy is implemented by multiple geo-redundant data centers.

NEW QUESTION 150

How should the IP addresses be assigned for all members of a Cisco vManage cluster located in the same data center?

- A. in the same subnet
- B. in overlapping IPs
- C. in each controller with a /32 subnet
- D. in different subnets

Answer: A

NEW QUESTION 155

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

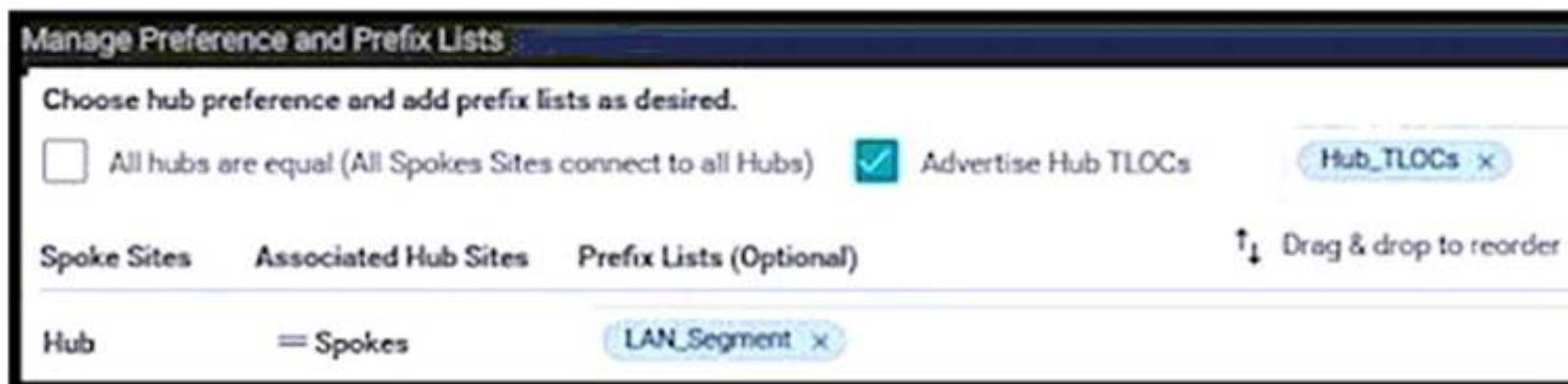
Explanation:

- 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.

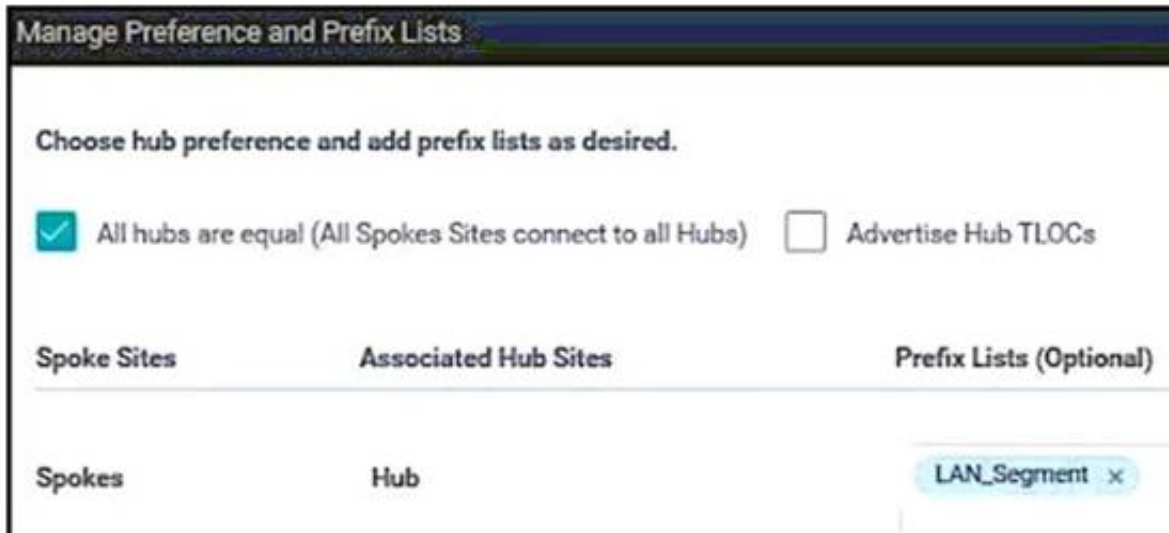
NEW QUESTION 157

After deploying Cisco SD-WAN the company realized that by default, all sites built direct IPsec VPN tunnels to each other In their previous topology all spoke sites used the head office as their next hop for the LAN segment that belongs to network 40.0.0.0/16 The company wants to deploy its previous policy, which allows the 40.0.0.0/16 network that originates at the hub to advertise to the spokes. Which configuration meets the requirement?

A)



B)



C)

Manage Preference and Prefix Lists

Choose hub preference and add prefix lists as desired.

☐ All hubs are equal (All Spokes Sites connect to all Hubs) ☒ Advertise Hub TLOCs Hub_TLOCs x

Spoke Sites	Associated Hub Sites	Prefix Lists (Optional)	Drag & drop to reorder
Spokes	Hub	LAN_Segment x	

D)

Choose hub preference and add prefix lists as desired.

☐ All hubs are equal (All Spokes Sites connect to all Hubs) ☒ Advertise Hub TLOCs Hub_TLOCs x

Spoke Sites	Associated Hub Sites	Prefix Lists (Optional)	Drag & drop to reorder
Spokes	Hub	Select one or more prefix lists	

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

Answer: D

NEW QUESTION 160

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

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

Answer: D

NEW QUESTION 161

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

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

Answer: A

NEW QUESTION 165

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

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

Answer: D

NEW QUESTION 167

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 169

Which type of connection is created between a host VNet and a transit VNet when configuring Cloud OnRamp for IaaS?

- A. Azure private endpoint
- B. GRE tunnel
- C. IPsec tunnel
- D. Azure peer link

Answer: C

NEW QUESTION 170

Which service VPN must be reachable from all WAN Edge devices and the controllers?

- A. VPN0
- B. VPN10
- C. VPN215
- D. VPN512

Answer: A

NEW QUESTION 175

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

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

Answer: A

Explanation:

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

NEW QUESTION 176

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 181

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

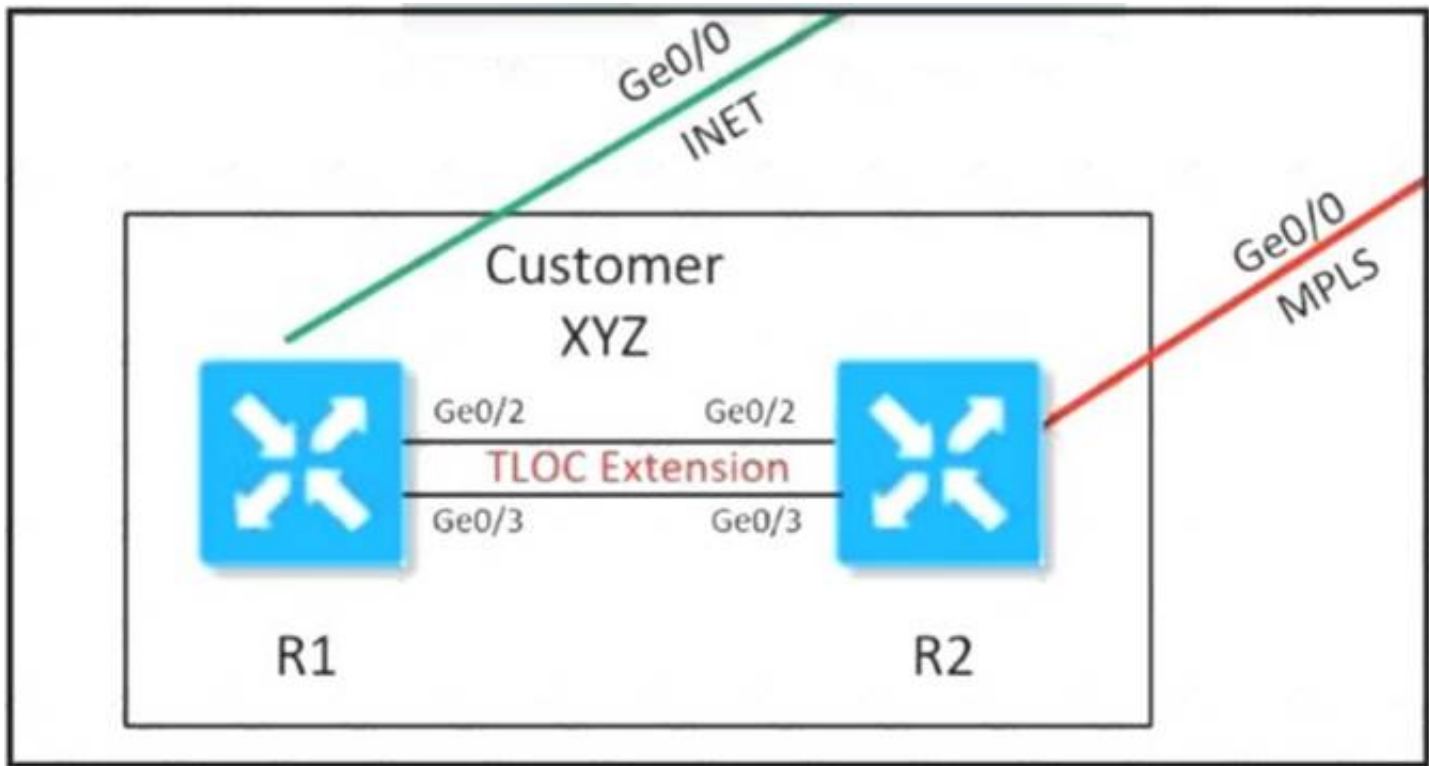
- A. BFD
- B. establishing affinity between vSmart controllers and WAN Edge routers
- C. multiple vBond orchestrators
- D. OMP

Answer: A

Explanation:

NEW QUESTION 183

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 184

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

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

Answer: C

Explanation:

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

NEW QUESTION 187

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 190

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

In which Cisco SD-WAN deployment scenario does Cisco Umbrella SIG deliver the most value?

- A. when a centralized Internet breakout solution is implemented
- B. when resource-intensive security operations are offloaded from entry-level WAN Edge devices
- C. when the identity of several WAN Edge devices is verified throughout the network throughout the network

Answer: B

NEW QUESTION 193

How are custom application ports monitored in Cisco SD-WAN controllers?

- A. Customers add custom application ports in vAnalytics and vManage.
- B. Customers add custom application ports in vAnalytics and vSmart.
- C. Cisco adds custom application ports in vAnalytics and vManage.
- D. Cisco adds custom application ports in vAnalytics and vSmart.

Answer: A

NEW QUESTION 198

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

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

Answer: B

NEW QUESTION 200

How is the software managed in Cisco SD-WAN?

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

Answer: A

NEW QUESTION 202

Refer to the exhibit.

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

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

- A. Configure the tunnel interface on all three controllers with a color of transport.
- B. Change the timezone on the vSmart to Europe/London.
- C. Configure the (11.1.1.X/24) IP addresses on the eth0 interfaces on vManage and vSmart.
- D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

Answer: B

NEW QUESTION 206

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 208

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

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

Answer: B

Explanation:

Replicators

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

NEW QUESTION 211

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 215

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 220

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 225

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 229

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

- A. In vManage NMS select (he configure policies screen, select the centralized policy tab and click add policy
- B. In vBood orchestrato
- C. select the configure > policies screen select the localized policy ta
- D. and click add policy
- E. In vManage NM
- F. select the configure policies scree
- G. select the localized policy tab- and click add policy
- H. In vSmart controller select tie configure policies screen, select the localized policy tab, and click add policy

Answer: C

NEW QUESTION 232

Refer to the exhibit.

Update Device Template

Variable List (Hover over each field for more information)

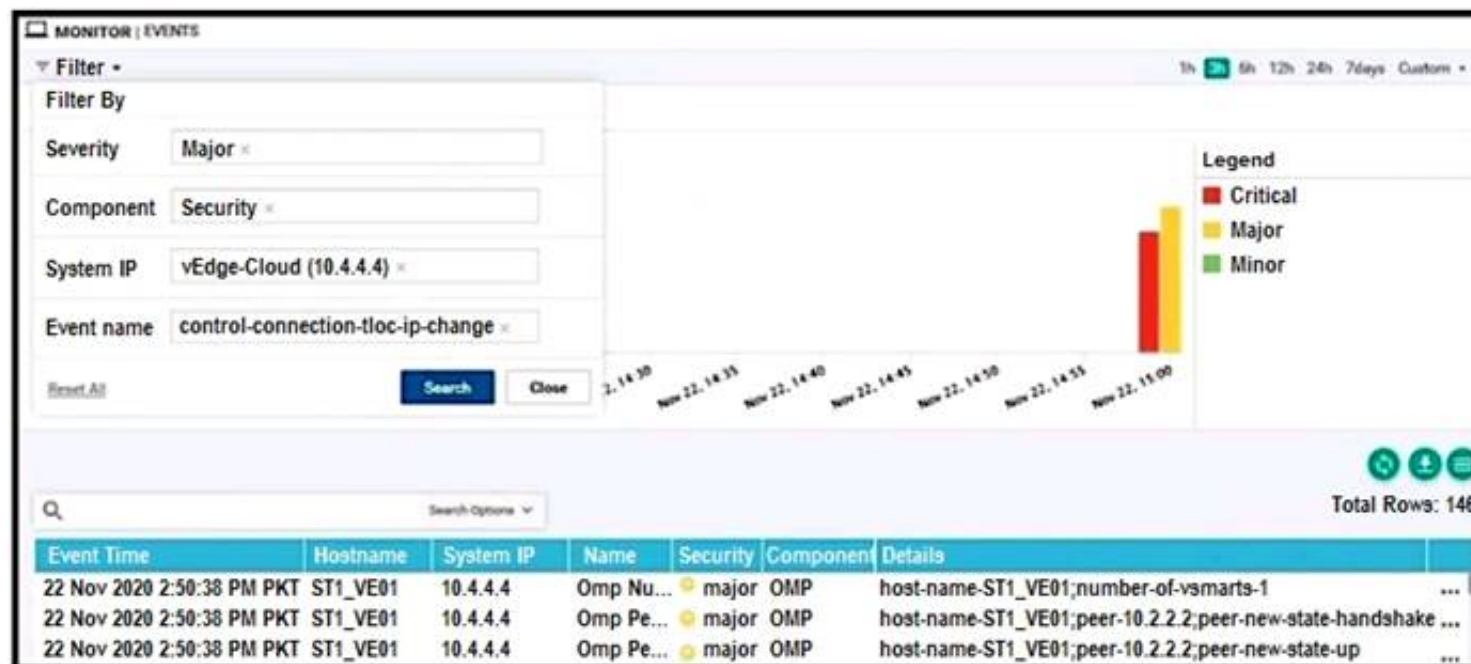
System IP	10.4.4.4
Hostname	ST1_VE01
Prefix(vEdge_Default_Gateway)	0.0.0.0/0
Prefix(Mpls_Default_Gateway)	0.0.0.0/0
Address(vEdge_Next_Hop_IP)	10.50.0.102
Address(MPLS_Next_hop_ip)	10.20.0.102
Hostname(Device_host_name)	vEdge-Cloud
Location(Device_location)	US
Latitude(Device_latitude)	40.7128
Longitude(Device_longitude)	74.0060
System IP(Device_system_ip)	10.4.4.4
Site ID(Device_site_id)	1

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?

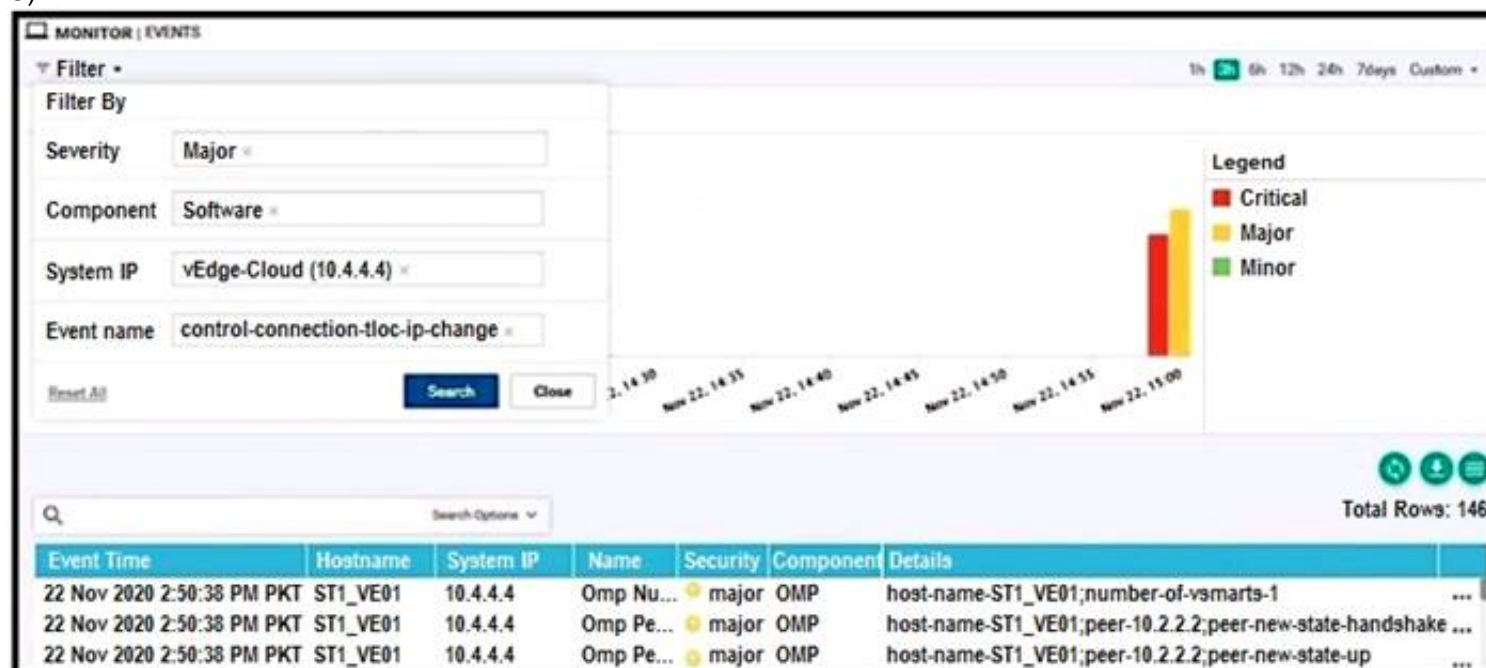
A)



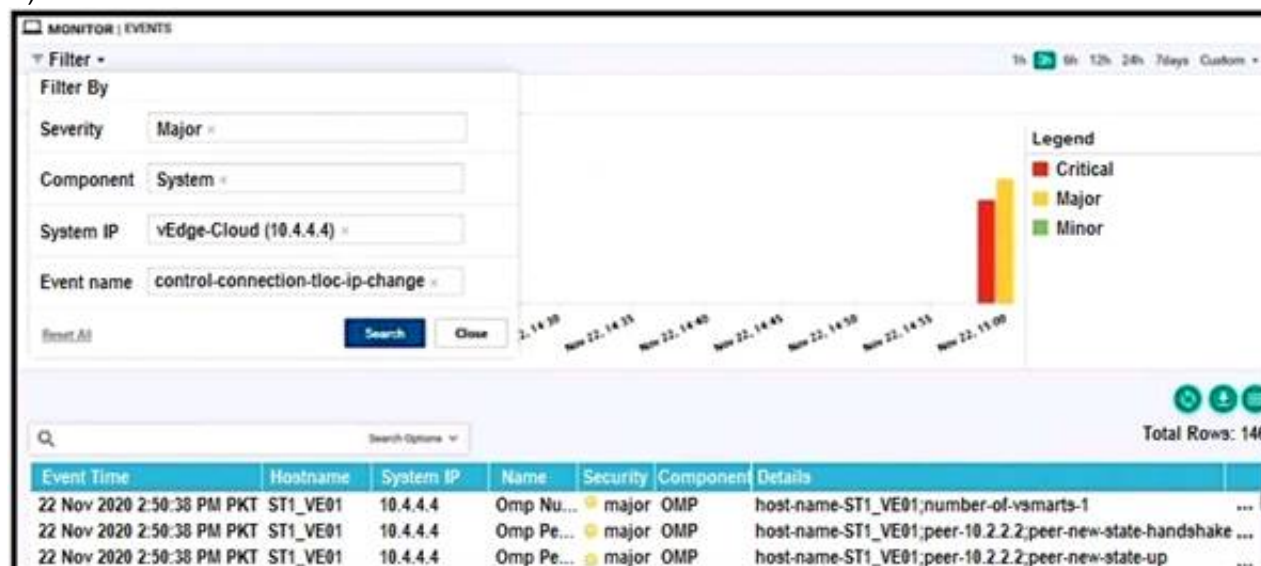
B)



C)



D)

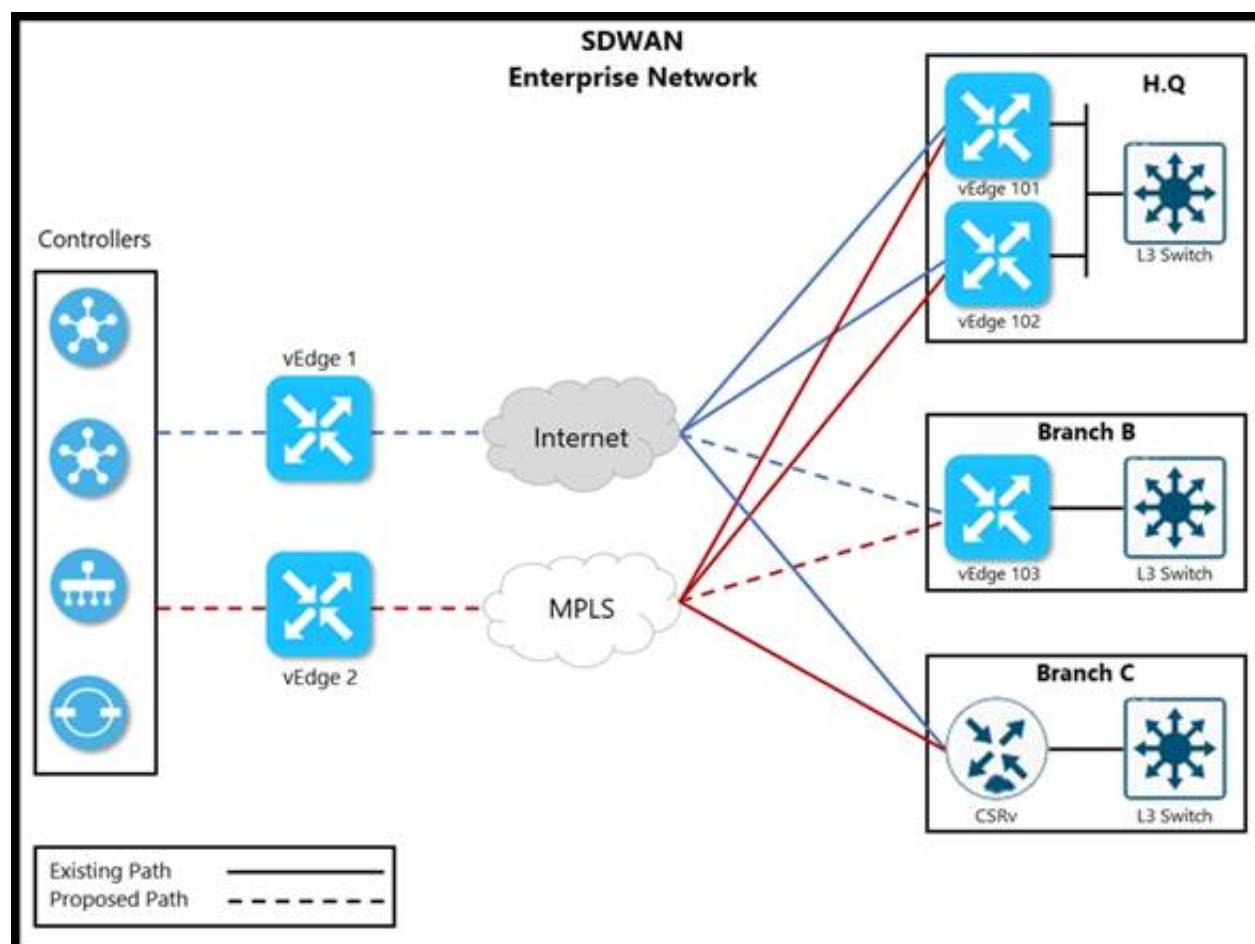


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

NEW QUESTION 237

Refer to the exhibit.



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

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

omp
no shutdown
graceful-restart

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

Which configuration meets the requirement?

A)

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

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

B)

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

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

C)

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

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

D)

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

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

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

Answer: A

NEW QUESTION 239

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

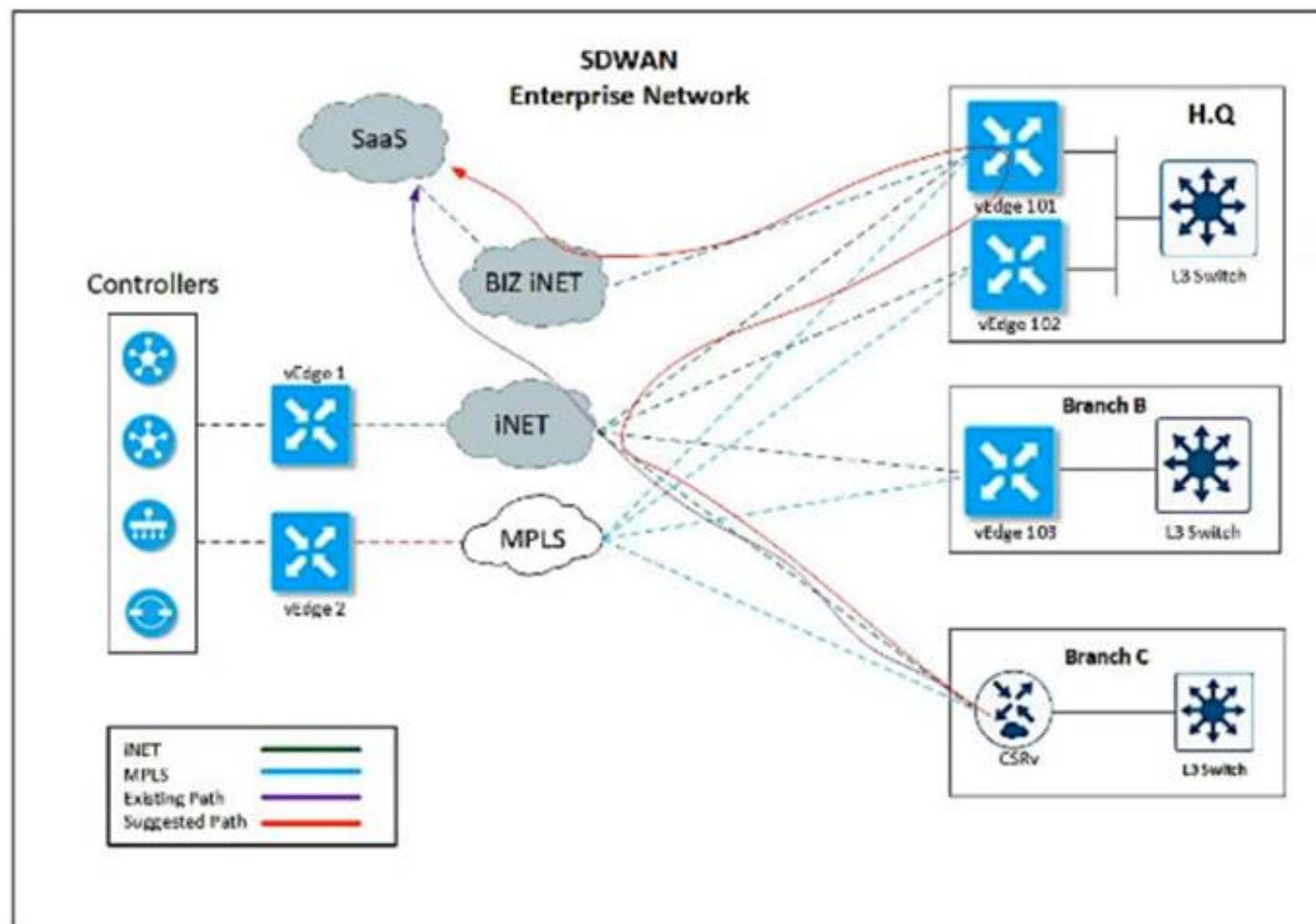
Answer: AE

Explanation:

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

NEW QUESTION 243

Refer to the exhibit.



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

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

Answer: B

NEW QUESTION 248

How is the software managed in Cisco SD-WAN?

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

Answer: A

NEW QUESTION 249

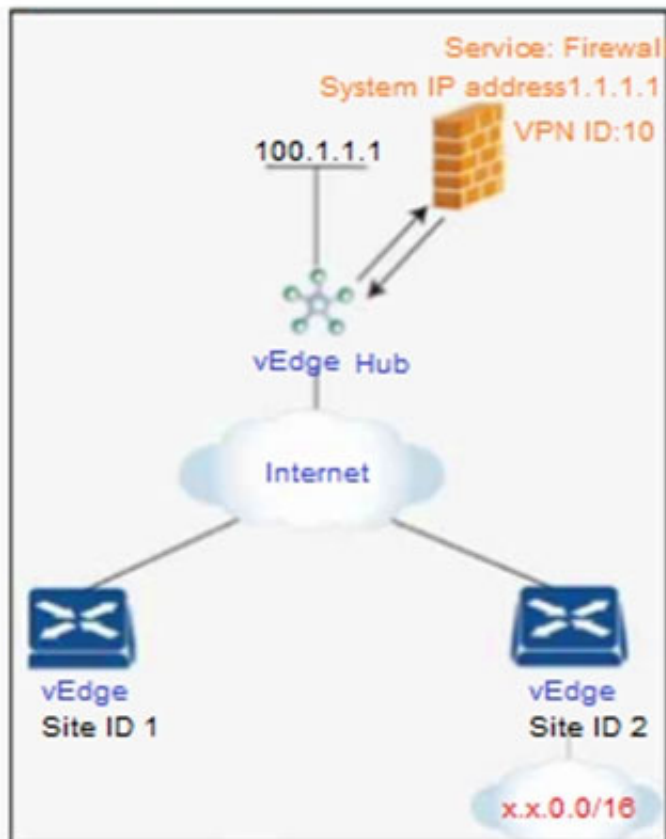
How are policies deployed on cloud-hosted Cisco SD-WAN controllers?

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

Answer: A

NEW QUESTION 252

Refer to the exhibit.



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

A)

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

B)

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

C)

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

D)

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

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

Answer: B

Explanation:

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

NEW QUESTION 257

Refer to exhibit. An engineer is troubleshooting tear of control connection even though a valid CertificateSerialNumber is entered. Which two actions resolve Issue? (Choose two)

PEER PEER INSTANCE COLOR	PEER TYPE STATE	PEER PRIVATE PROTOCOL ERROR	PEER SYSTEM IP ERROR	SITE ID COUNT	DOMAIN PUBLIC ID DOWNTIME	PRIVATE IP	LOCAL PORT	REMOTE PUBLIC IP	REPEAT PORT REMOTE
0 tear_down	vbond	dtls	0.0.0.0	9	0 2019-06-01T19:06:32+0200	192.168.0.231	12346	192.168.0.231	12346 default

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

Answer: BC

NEW QUESTION 260

Which type of route advertisement of OMP can be verified?

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

Answer: D

NEW QUESTION 261

Which feature allows reachability to an organization's internally hosted application for an active DNS security policy on a device?

- A. local domain bypass
- B. DHCP option 6
- C. DNSCrypt configurator
- D. data pokey with redirect

Answer: A

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/ios-xe-16/security-book-xe/umbrell>

- Local domain bypass list is global and each VRF can enable or disable the local domain bypass list. If enabled, the DNS packet will be matched against the local domain list.

NEW QUESTION 266

Refer to the exhibit

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

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

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

Answer: A

NEW QUESTION 271

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

A)

App Route Application Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP x

Actions

SLA Class

Data_SLA x

Preferred Color

public-internet x

☐ Strict

Backup SLA Preferred Color

public-internet x

Save Application Aware Routing Policy CANCEL

B)

App Route Application Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP x

Actions

SLA Class

Data_SLA x

Preferred Color

public-internet x

☒ Strict

Backup SLA Preferred Color

impls x

Save Application Aware Routing Policy CANCEL

C)

App Route Application Route

Sequence Rule Drag and drop to re-arrange rules

Match Conditions

Application/Application Family List

HTTP x

Actions

SLA Class

Data_SLA x

Preferred Color

public-internet x

☒ Strict

Save Match And Actions

Save Application Aware Routing Policy CANCEL

D)

App Route Application Route

Sequence Rule Drag and drop to re-arrange rules

Application/Application Family List

HTTP x

SLA Class

Data_SLA x

Preferred Color

impls x

☐ Strict

Backup SLA Preferred Color

public-internet x

Save Application Aware Routing Policy CANCEL

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

Answer: C

NEW QUESTION 274

What is the OMP graceful restart default value on vSmart controllers and WAN Edge routers?

- A. 21,600 seconds
- B. 43,200 seconds
- C. 86,400 seconds
- D. 604,800 seconds

Answer: B

NEW QUESTION 277

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 279

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 281

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-plabe 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 vSmar
- D. and finally on the Cisco WAN Edge devices.
- E. Upgrade and reboot are performed first on vBon
- F. then on vSmar
- G. and finally on the Cisco WAN Edge devices.

Answer: C

NEW QUESTION 282

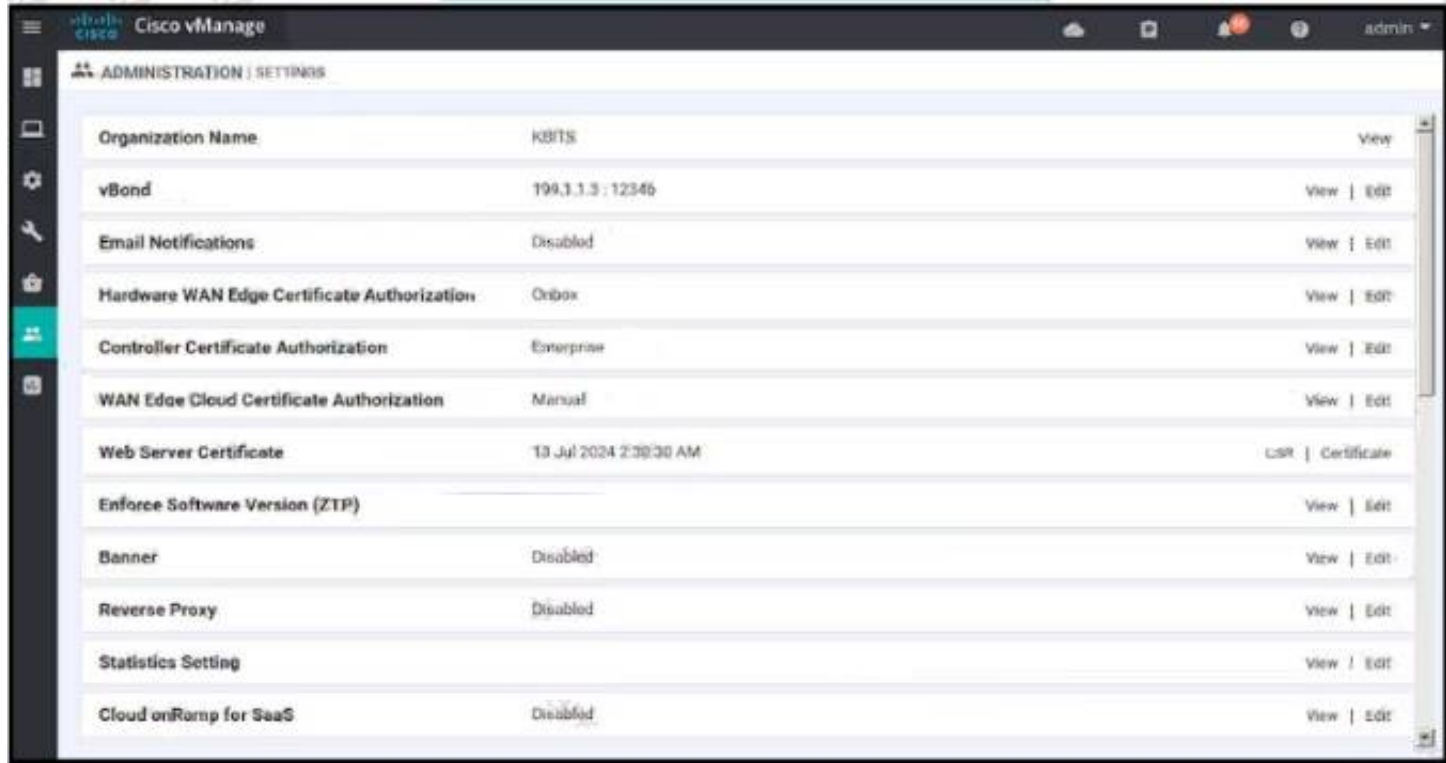
REST applications communicate over HTTP or HTTPS to make calls between network devices. Which two HTTPS standard methods are included? (Choose two.)

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

Answer: BC

NEW QUESTION 287

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

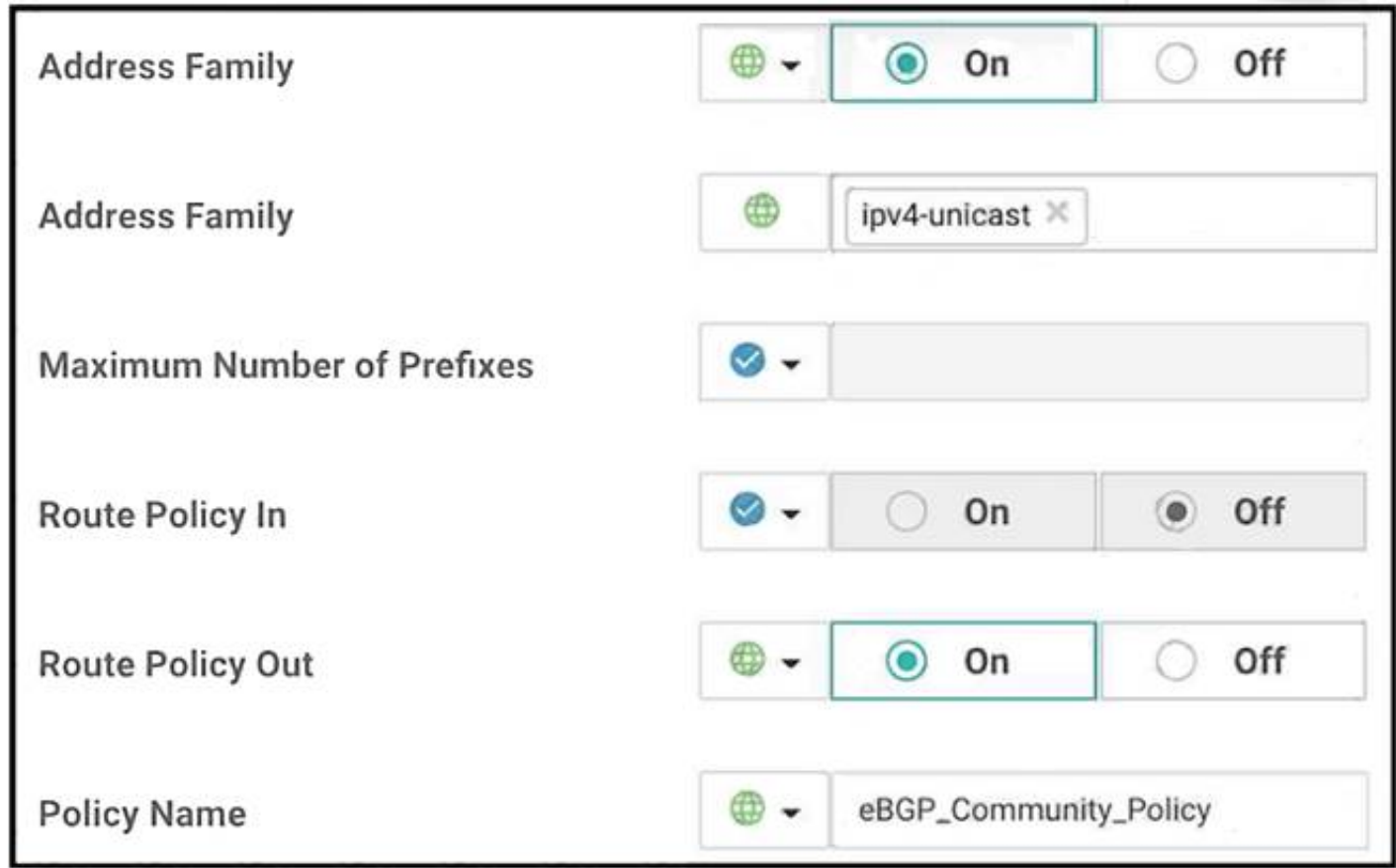
Answer: AE

Explanation:

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

NEW QUESTION 291

Refer to the exhibit.



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 294

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 299

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 304

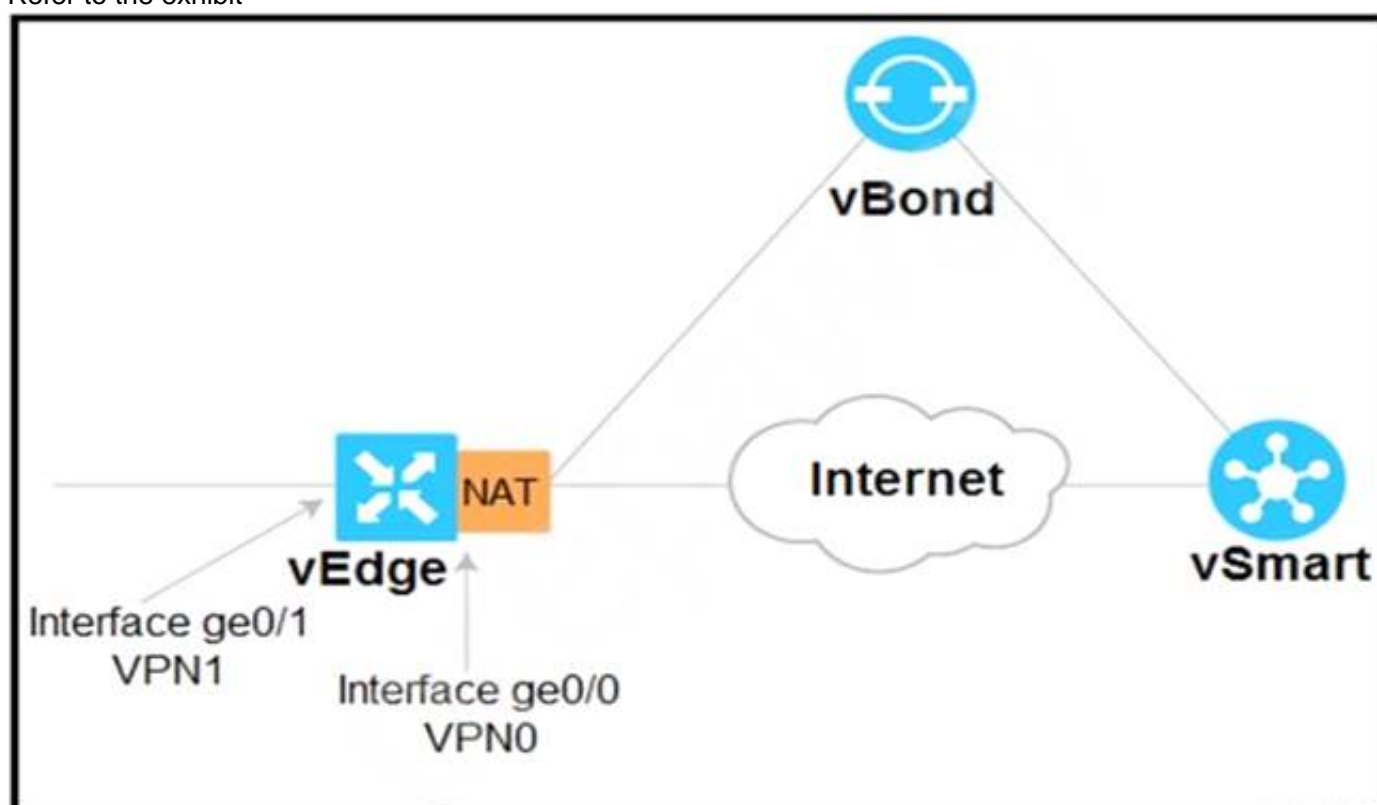
Which device should be configured with the service chain IP address to route intersite traffic through a firewall?

- A. vSmart
- B. firewall
- C. spoke WAN Edge
- D. hub WAREdge

Answer: A

NEW QUESTION 308

Refer to the exhibit



Which configuration sets up direct Internet access for VPN 1?

```
vpn 1
...
interface ge0/1
...
  nat
  !
  no shutdown
...
vpn 0
...
  ip route 0.0.0.0/0 vpn 1

vpn 1
...
interface ge0/0
  nat
  !
  no shutdown
...
vpn 0
...
  ip route 0.0.0.0 vpn 1

vpn 0
...
interface ge0/1
...
  ip nat
  !
  no shutdown
...
vpn 1
...
  ip route 0.0.0.0/0 vpn 0
```

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

Answer: C

NEW QUESTION 311

.....

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