

# Cisco

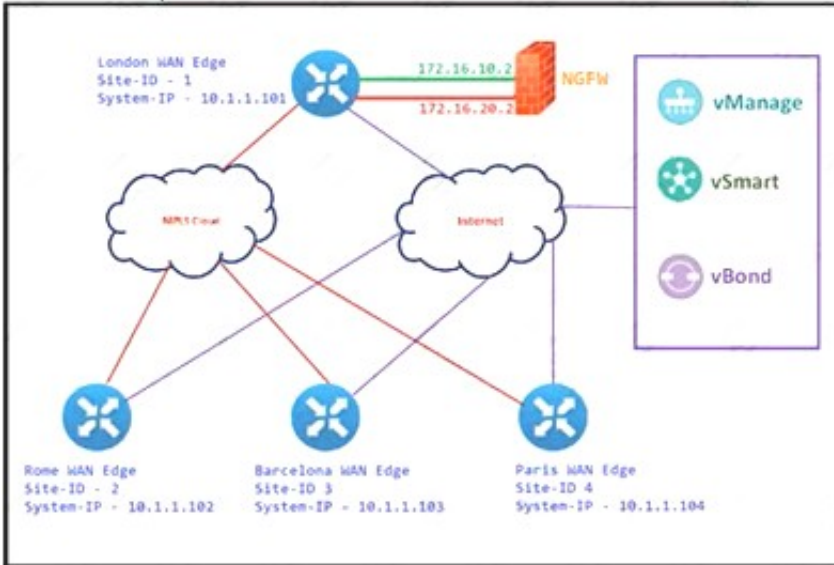
## Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)



## NEW QUESTION 1

Refer to the exhibit.



The Cisco SD-WAN is deployed using the default topology. The engineer wants 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 netvc1 address 172.16.10.2
 service netvc2 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 netvc1 vpn 1
 sequence 2
  match route
  site-id PARIS
  action accept
  set service netvc2 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 netvc1 address 172.16.10.2
 service netvc2 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
```

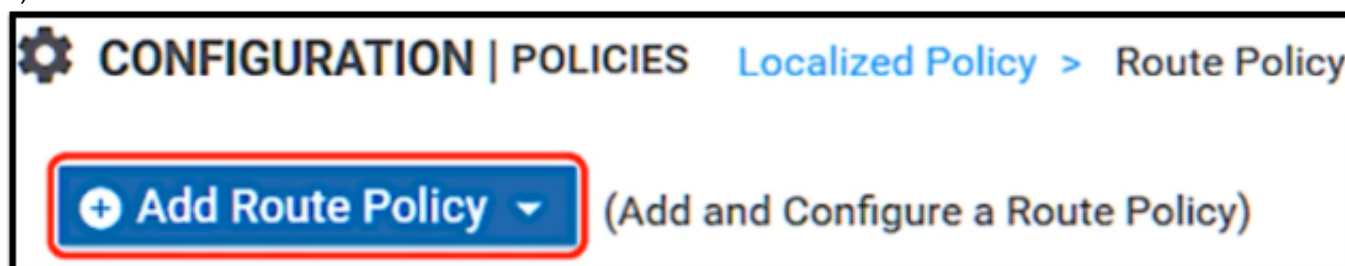
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

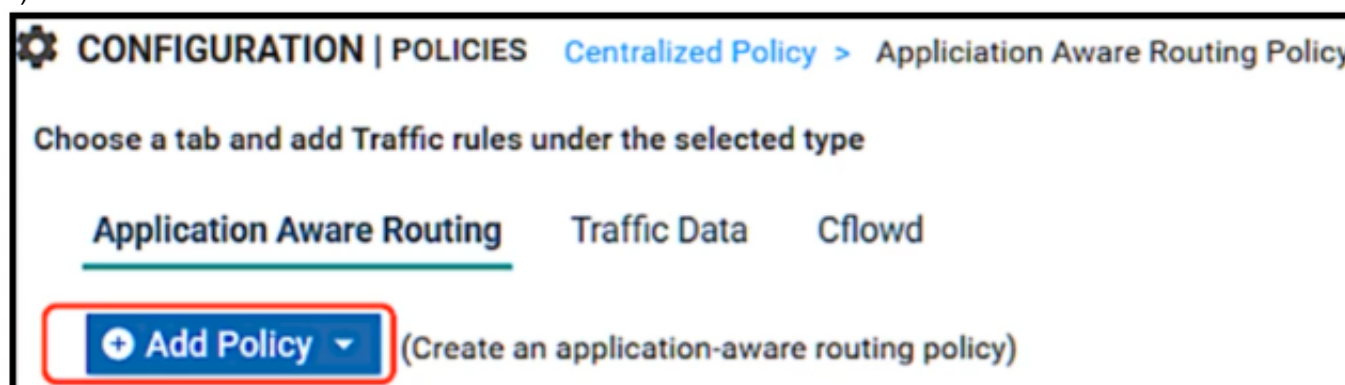
## NEW QUESTION 2

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

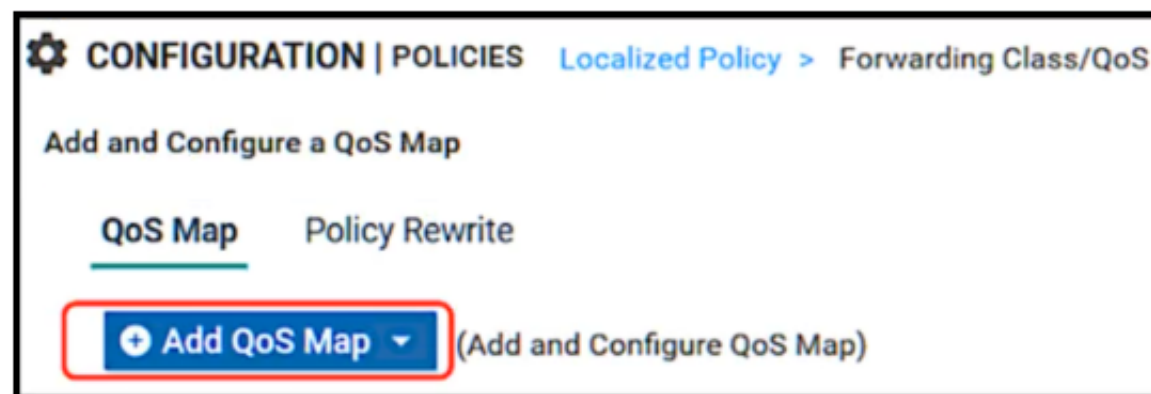
A)



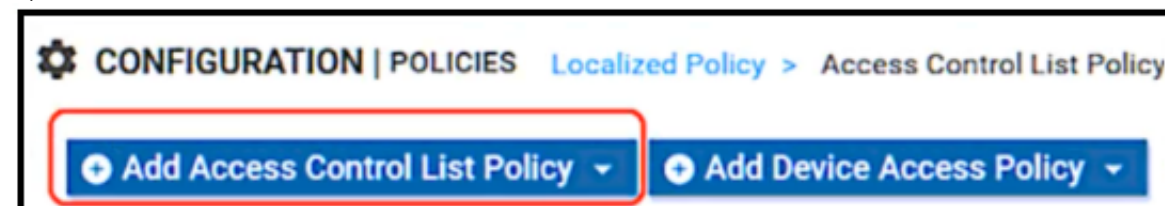
B)



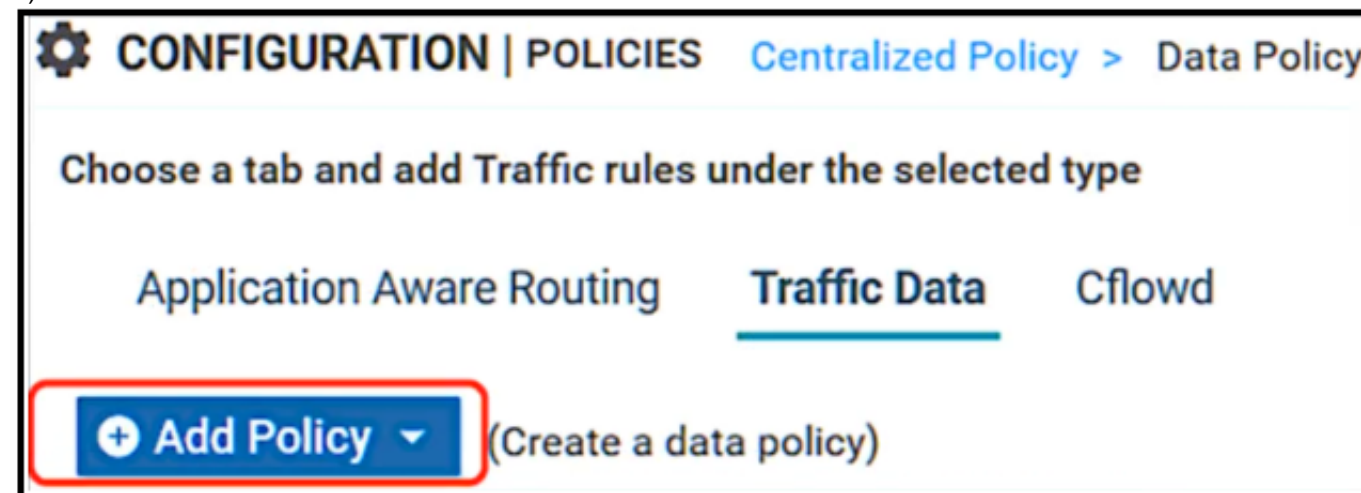
C)



D)



E)



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

Answer: AC

### NEW QUESTION 3

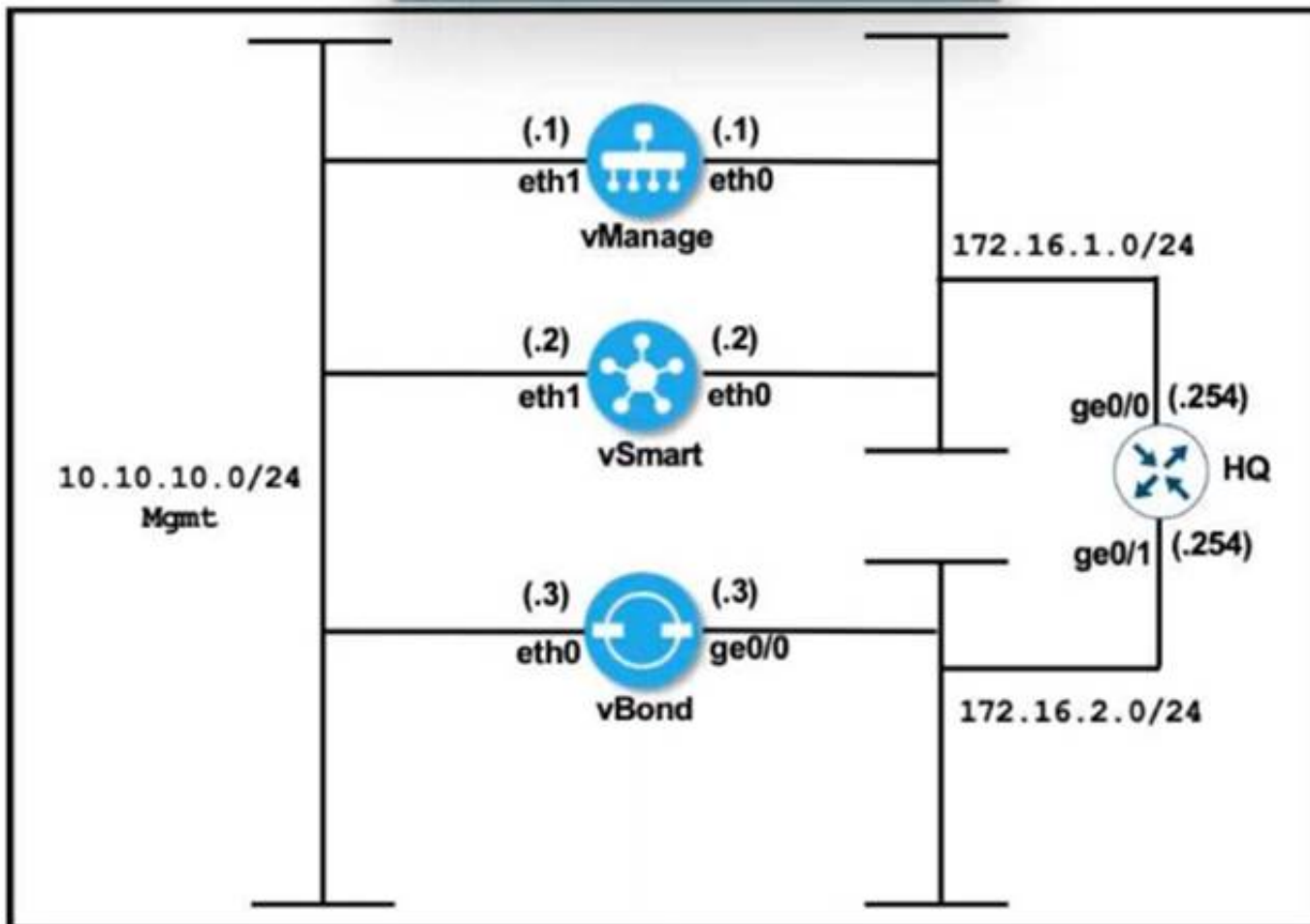
What is the role of the Session Traversal Utilities for NAT server provided by the vBond orchestrator?

- 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 4

Refer to the exhibit.



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

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

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

**Answer: C**

#### NEW QUESTION 5

An engineering team must prepare a traffic engineering policy where an MPLS circuit is preferred for traffic coming from the Admin VLAN Internet should be used as a backup only. Which configuration fulfill this requirement?

A)

```

policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 10
tloc-list Hub_TLOCs
default-action reject
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet encap ipsec preference 600

```

B)



```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
nat use-vpn 0
nat fallback
default-action reject
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

C)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 10
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

D)

```
policy
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 512
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

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

Answer: C

NEW QUESTION 6

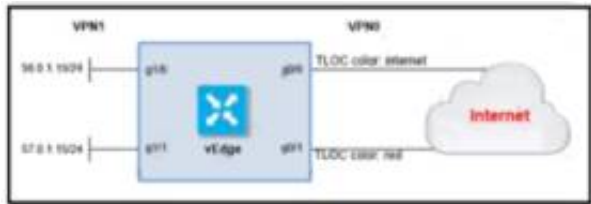
Which two hardware platforms support Cisco IOS XE SD-WAN images" (Choose two)

- A. ASR1000 series
- B. ISR9300 series
- C. vEdge-1000 series
- D. ASR9000 series
- E. ISR4000 series

Answer: AE

NEW QUESTION 7

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 busts 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 8

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

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

**Answer:** A

**Explanation:**

Display all available vEdge routers in the overlay network.

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

#### NEW QUESTION 9

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 10

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

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

**Answer:** B

#### NEW QUESTION 10

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



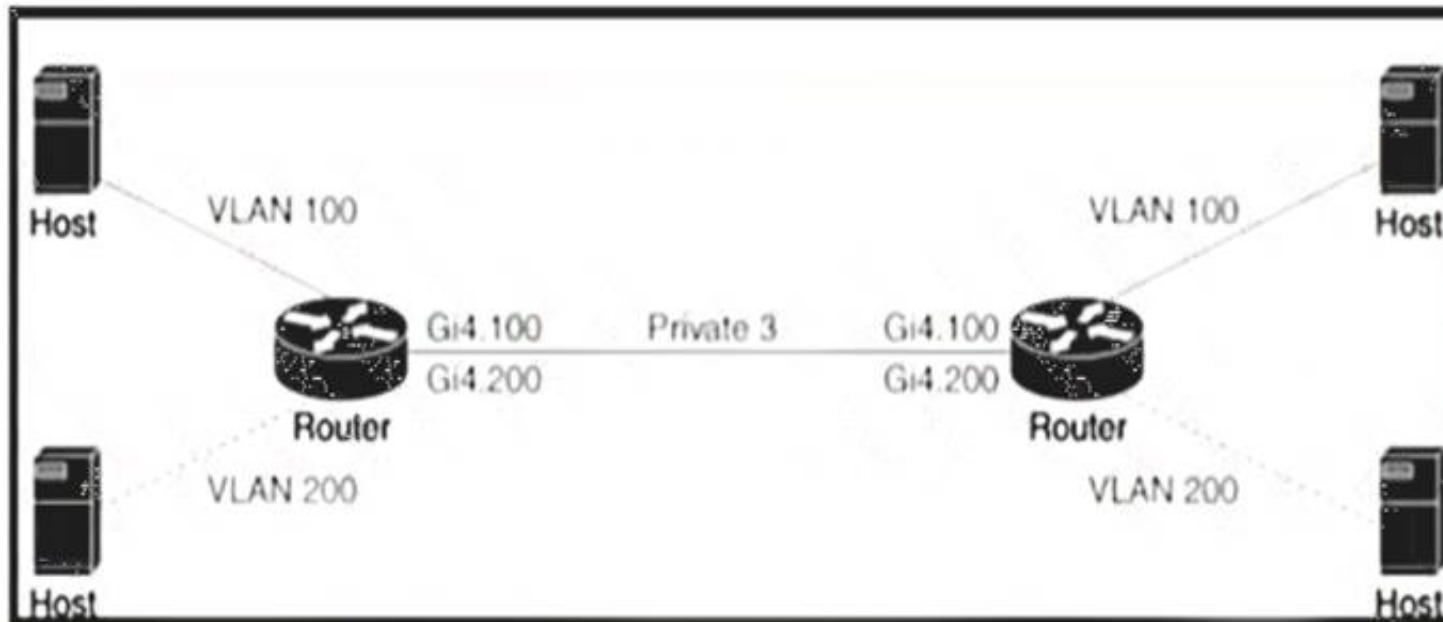
- ☐ vpn 512  
 interface eth1  
 ip address 199.1.1.1/28  
 tunnel-interface  
 allow-service netconf  
 no allow-service ntp  
 no allow-service stun
- ☐ vpn 0  
 interface eth1  
 ip address 199.1.1.1/28  
 tunnel-interface  
 allow-service sshd  
 allow-service ntp
- ☐ vpn 512  
 interface eth1  
 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 13

Refer to the exhibit



An engineer is configuring a QoS policy to shape traffic for VLAN 100 on a subinterface Which policy configuration accomplishes the task?

- A)  

```

policy-map shape_GigabitEthernet4.100
class class-default
  service-policy xyz_QoS-model
  shape average 100000000
!
interface GigabitEthernet4.100
  encapsulation dot1Q 200
  service-policy output shape_GigabitEthernet4.100
      
```
- B)  

```

policy-map shape_GigabitEthernet4.100
class class Queue0
  service-policy xyz_QoS-model
  shape average 100000000
!
interface GigabitEthernet4.100
  encapsulation dot1Q 200
  service-policy output shape_GigabitEthernet4.100
      
```
- C)  

```

policy-map shape_GigabitEthernet4.200
class class-default
  service-policy xyz_QoS-model
  shape average 100000000
!
interface GigabitEthernet4.100
  encapsulation dot1Q 100
  service-policy output shape_GigabitEthernet4.200
      
```
- D)

```
policy-map shape_GigabitEthernet4.200
class class Queue0
service-policy xyz_QoS-model
shape average 100000000
!
interface GigabitEthernet4.100
encapsulation dot1Q 100
service-policy output shape_GigabitEthernet4.100
```

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

**Answer:** C

#### NEW QUESTION 17

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 19

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 24

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

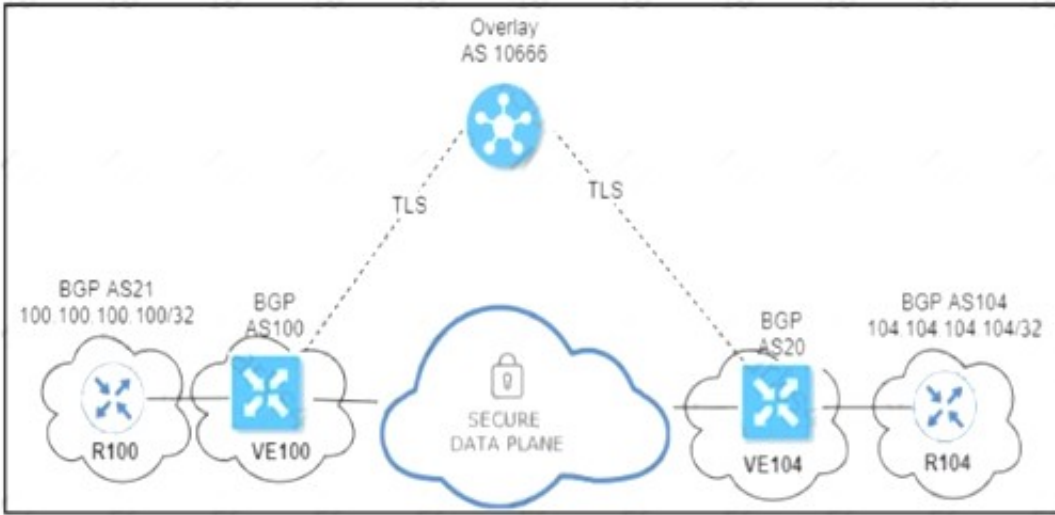
#### Explanation:

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 28

Refer to the exhibit.



An engineer configured OMP with an overlay-as of 10666. What is the AS-PATH for prefix 104.104.104.104/32 on R100?

- A. 100 10666 104
- B. 100 10666
- C. 100 10666 20 104
- D. 100 20 104

**Answer: A**

### NEW QUESTION 30

A network engineer must configure all branches to communicate with each other through the Service Chain Firewall located at the headquarters site. Which configuration allows the engineer to accomplish this task?

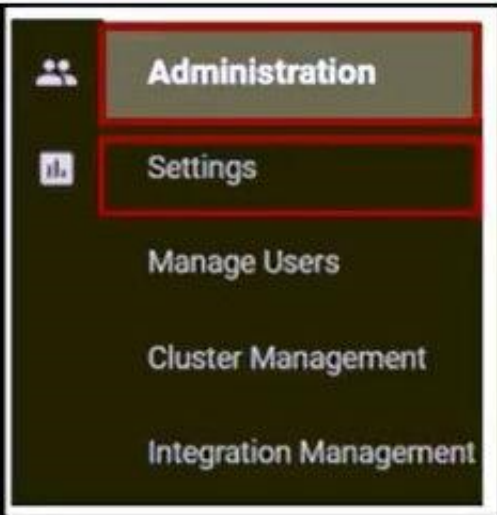
A)



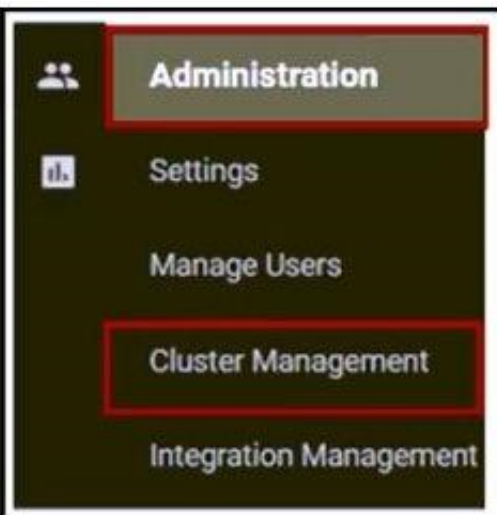
B)



C)



D)



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

**Answer:** B

**NEW QUESTION 32**

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 34

Which routing protocol has the highest default administrative distance?

- A. OMP
- B. external EIGRP
- C. IS-IS
- D. IBGP

**Answer:** A

#### NEW QUESTION 39

A network administrator is configuring VRRP to avoid a traffic black hole when the transport side of the network is down on the master device. What must be configured to get the fastest failover to standby?



- A. lower timer interval
- B. prefix-list tracking
- C. higher group ID number
- D. OMP tracking

**Answer:** B

**Explanation:**

```
vEdge(config-vrrp)# track-prefix-list list-name
```

If all OMP sessions are lost, VRRP failover occurs as described for the track-omp option. In addition, if reachability to all the prefixes in the list is lost, VRRP failover occurs immediately, without waiting for the OMP hold timer to expire, thus minimizing the amount of overlay traffic is dropped while the vEdge routers determine the VRRP master.

#### NEW QUESTION 43

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 44

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 49

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

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

**Answer:** C

#### NEW QUESTION 52

A company deploys a Cisco SD-WAN solution but has an unstable Internet connection. When the link to vSmart comes back up, the WAN Edge router routing table is not refreshed, and some traffic to the destination network is dropped. The headquarters is the hub site, and it continuously adds new sites to the SD-WAN network. An engineer must configure route refresh between WAN Edge and vSmart within 2 minutes. Which configuration meets this requirement?

- ☐ omp  
no shutdown  
graceful-restart  
timers  
eor-timer 120
- ☐ omp  
no shutdown  
no graceful-restart
- ☐ omp  
no shutdown  
graceful-restart  
timers  
holdtime 120
- ☐ omp  
no shutdown  
graceful-restart  
timers  
advertisement-interval 120

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

**Answer:** A

#### NEW QUESTION 54

Which protocol advertises WAN edge routes on the service side?

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

**Answer:** B

#### NEW QUESTION 55

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 57

Which combination of platforms are managed by vManage?

- A. ISR4321, ASR1001, ENCS, ISRv

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

**Answer: A**

#### NEW QUESTION 61

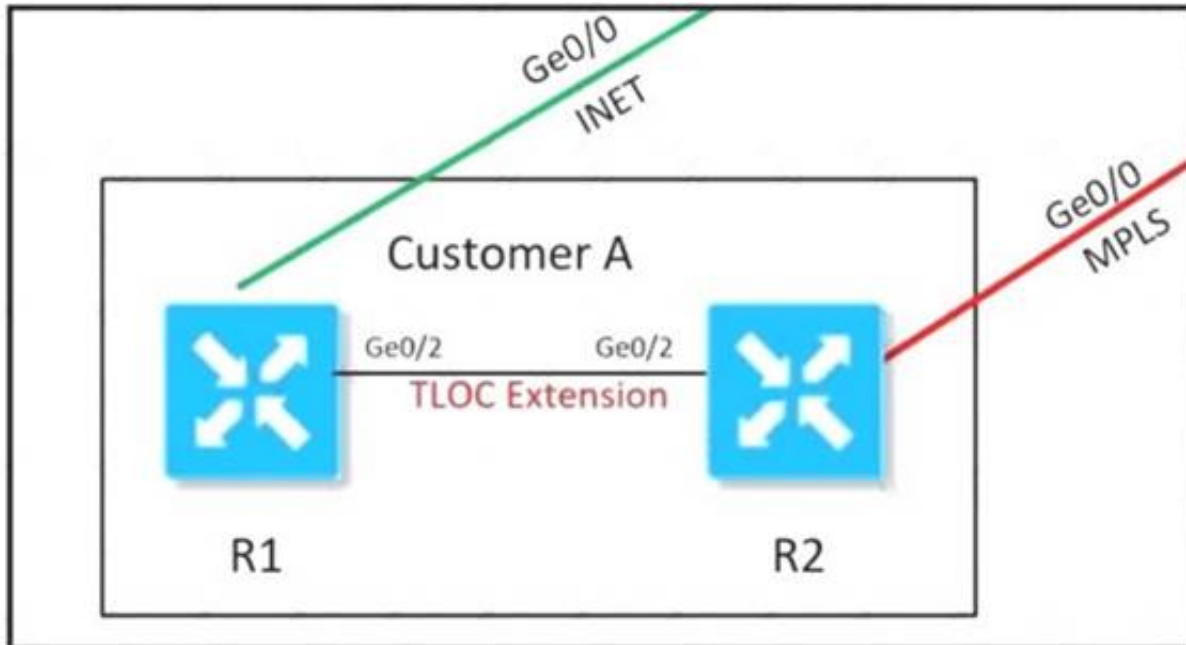
Which policy allows communication between TLOCs of data centers and spokes and blocks communication between spokes?

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

**Answer: B**

#### NEW QUESTION 62

Refer to the exhibit.



An MPLS connection on R2 must extend to R1. Users behind R1 must have dual connectivity for data traffic. Which configuration provides R1 control connectivity over the MPLS connection?

A)

```
R1
interface ge0/2
ip address 34.34.34.1/30
tloc-extension ge0/1
tunnel-interface
color mpls
```

```
R2
interface ge0/2
ip address 34.34.34.2/30
tloc-extension ge0/0
tunnel-interface
color public-internet
```

B)

```
R1
interface ge0/2
ip address 34.34.34.1/30
tloc-extension ge0/1
```

```
R2
interface ge0/0
ip address 34.34.34.2/30
tunnel-interface
color mpls
```

C)

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

D)

```

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
!
 action accept

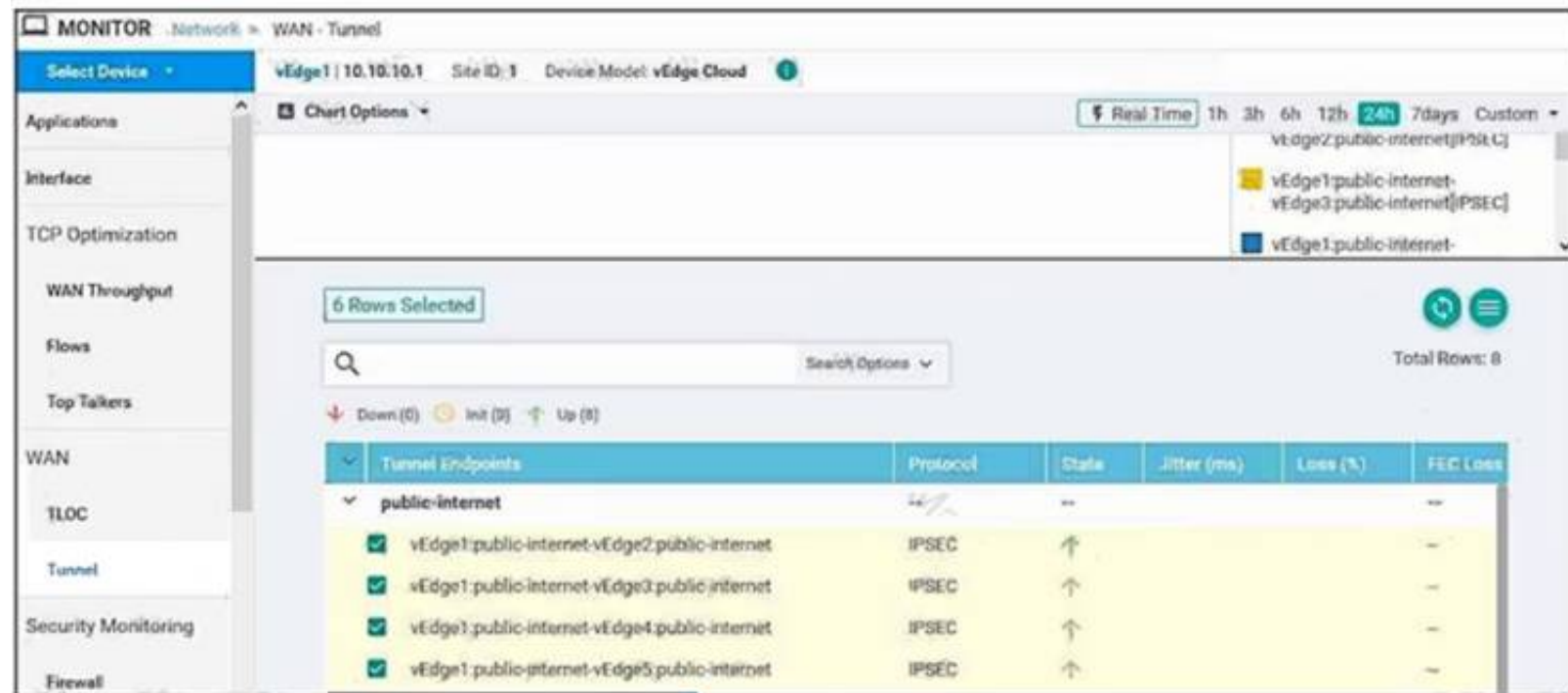
```

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

**Answer: D**

#### NEW QUESTION 64

Refer to the exhibit.



Which command-line configuration on a WAN Edge device achieves these results?

- A)
 

```

vpn 0
interface ge0/0
 ip address 10.50.0.101/30
 tunnel-interface
  encapsulation gre
  color public-internet
  allow-service ntp

ip route 0.0.0.0/0 10.50.0.102

```
- B)
 

```

vpn 0
interface ge0/0
 ip address 10.50.0.101/30
 tunnel-interface
  encapsulation ipsec
  color public-internet restrict
  allow-service all
  allow-service netconf

ip route 0.0.0.0/0 10.50.0.102

```
- C)
 

```

vpn 0
interface ge0/0
 ip address 10.50.0.101/30
 tunnel-interface
  encapsulation ipsec
  allow-service none

ip route 0.0.0.0/0 10.50.0.102

```
- D)



```
vpn 1
interface ge0/0
 ip address 10.50.0.101/30
 tunnel-interface
 encapsulation ipsec
 color public-internet restrict
 allow-service all
 allow-service netconf

ip route 0.0.0.0/0 10.50.0.102
```

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

**Answer: B**

#### NEW QUESTION 67

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 70

Refer to the exhibit.

LOCAL		PEER	PEER	PEER	SITE		DOMAIN PEER		PEER	PEER
INSTANCE TYPE		REMOTE	PROTOCOL	SYSTEM IP	ID	ID	PRIVATE IP	PORT	PUBLIC IP	PORT
REMOTE COLOR		STATE		ERROR	ERROR	COUNT	DOWNTIME			
0	default	vsmart	tls	1.1.1.3	100	1	100.1.1.3	23456	100.1.1.3	23456
			trying	DCONFAIL	NOERR	10001	2020-01-01T10:01:20+0000			

The control connection is failing. Which action resolves the issue?

- A. import vSmart in vManager
- B. Validate the certificates authenticity on vSmart
- C. Upload the WAN Edge list on vManage.
- D. Restore the reachability to the vSmart

Answer: D

Explanation:

<https://www.cisco.com/c/en/us/support/docs/routers/sd-wan/214509-troubleshoot-control-connections.html>

NEW QUESTION 74

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

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

Answer: CD

NEW QUESTION 75

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 80

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 83

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

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

Answer: C

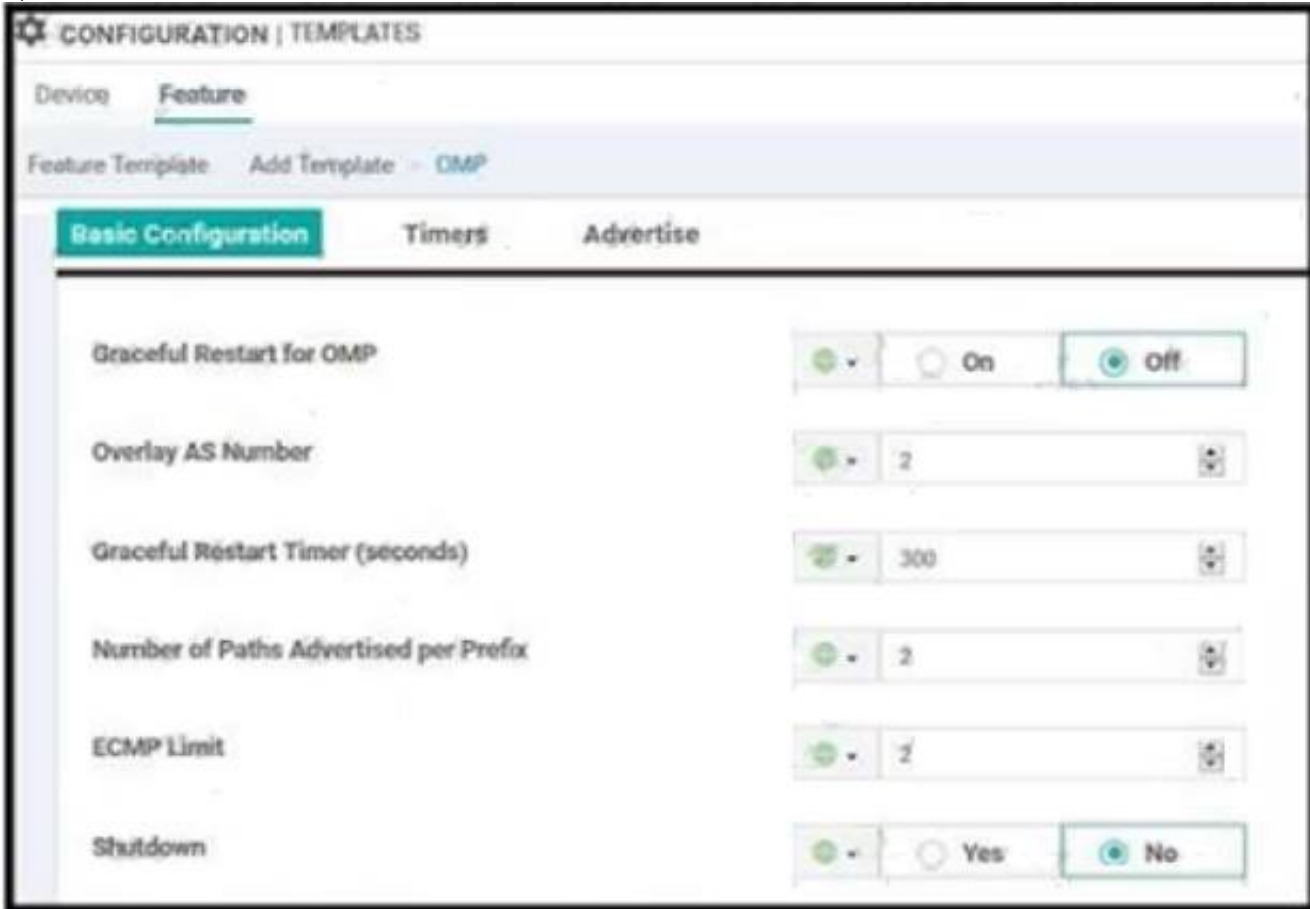
Explanation:

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

NEW QUESTION 84

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 ☒ On ☐ Off

Overlay AS Number 2

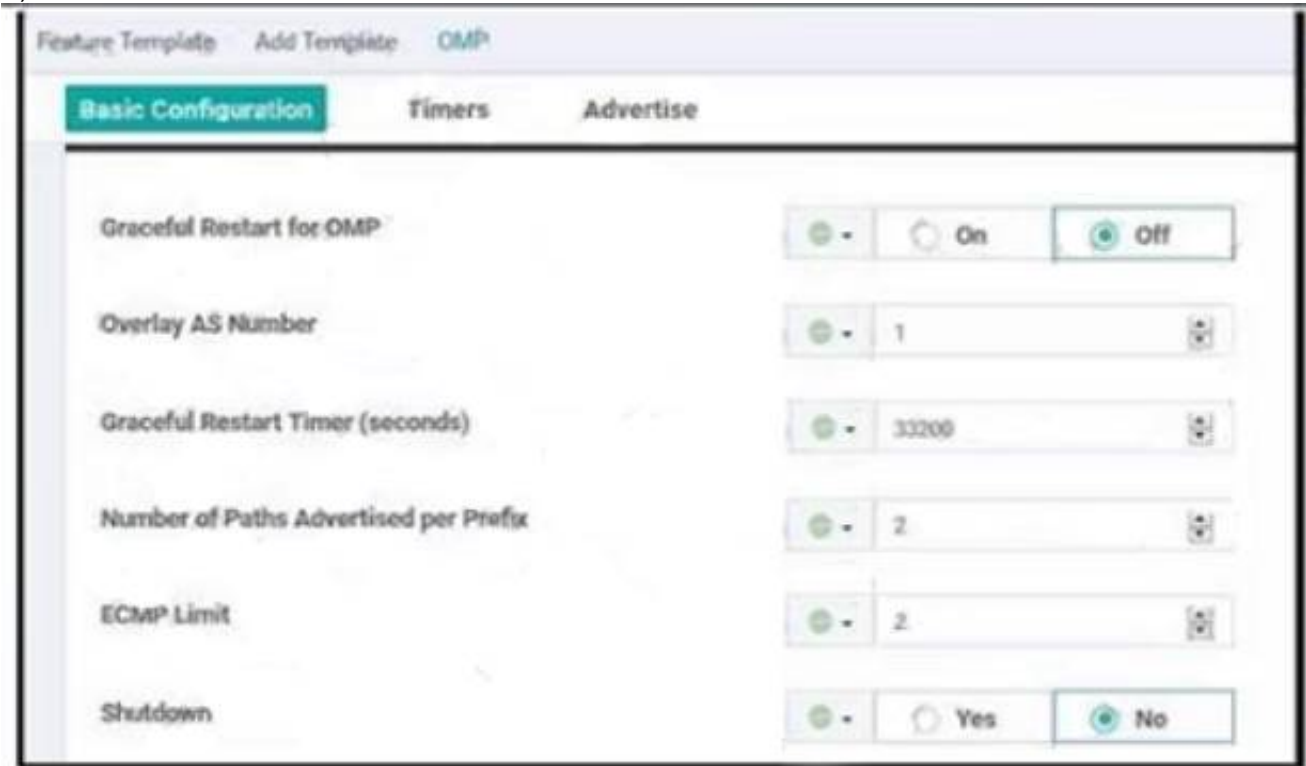
Graceful Restart Timer (seconds) 300

Number of Paths Advertised per Prefix 2

ECMP Limit 2

Shutdown ☐ Yes ☒ No

B)



Feature Template Add Template OMP

Basic Configuration Timers Advertise

Graceful Restart for OMP ☒ On ☐ Off

Overlay AS Number 1

Graceful Restart Timer (seconds) 33200

Number of Paths Advertised per Prefix 2

ECMP Limit 2

Shutdown ☐ Yes ☒ No

C)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template - OMP

**Basic Configuration** Timers Advertise

Graceful Restart for OMP ☒ On ☐ Off

Overlay AS Number

Graceful Restart Timer (seconds)

Number of Paths Advertised per Prefix

ECMP Limit

Shutdown ☒ Yes ☐ No

D)

CONFIGURATION | TEMPLATES

Device Feature

Feature Template Add Template - OMP

**Basic Configuration** Timers Advertise

Graceful Restart for OMP ☒ On ☐ Off

Overlay AS Number

Graceful Restart Timer (seconds)

Number of Paths Advertised per Prefix

ECMP Limit

Shutdown ☐ Yes ☒ No

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

**Answer: D**

#### NEW QUESTION 88

Which logs verify when a device was upgraded?

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

**Answer: A**

#### NEW QUESTION 91

In a Cisco SD-WAN architecture, what is the role of the WAN Edge?

- A. It provides orchestration to assist in automatic provisioning of WAN Edge routers and overlay
- B. It is the management plane responsible for centralized configuration and monitoring
- C. It is the control plane that builds and maintains network topology
- D. It is the data plane that is responsible for forwarding traffic

**Answer: D**

**Explanation:**

Cisco WAN Edge routers are responsible for establishing the network fabric and forwarding traffic. Cisco WAN Edge routers come in multiple forms, virtual and

**NEW QUESTION 96**

An administrator wants to create a policy to add a traffic policer called "politer-ccnp" to police data traffic on the WAN Edge. Which configuration accomplishes this task in vSmart?

- A. 

```
vpn 1
interface ge 0/4
policer policer-ccnp in
```
- B. 

```
policy
data-policy policy-ccnp
vpn-list list-ccnp
sequence number
action accept
set policer policer-ccnp
```
- C. 

```
policy
access-list list-ccnp
sequence number
action accept
policer policer-ccnp
```
- D. 

```
vpn 1
interface ge 0/4
policer policer-ccnp out
```

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

**Answer: B**

**NEW QUESTION 98**

A customer has 1 to 100 service VPNs and wants to restrict outbound updates for VPN1 Which control policy configuration restricts these updates?

A)

```
policy
lists
vpn-list VPN2-100
vpn 2-100
!
control-policy restrict_2-100
sequence 10
match route
vpn-list VPN2-100
!
action reject
!
default-action accept
```

B)

```
policy
lists
vpn-list VPN2-100
vpn 2-100
!
control-policy restrict_2-100
sequence 10
match route
vpn-list VPN2-100
!
action reject
!
default-action accept
```

C)

```
policy
lists
vpn-list VPN1
vpn 1
!
!
control-policy restrict_1
sequence 10
match route
vpn-list VPN1
!
action reject
!
default-action accept
!
```

D)

```
Policy
lists
vpn-list restricted_vpns
vpn 2-100
!
!
vpn-membership restrict_1
sequence 10
match vpn-list restricted_vpns
action reject
!
!
default-action accept
!
```

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

Answer: C

NEW QUESTION 103

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)

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

Hub

= Spokes

LAN\_Segment x

B)

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

Spoke Sites

Associated Hub Sites

Prefix Lists (Optional)

Spokes

Hub

LAN\_Segment x

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)

**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	Select one or more prefix lists	

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

**Answer: D**

#### NEW QUESTION 107

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

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

**Answer: A**

#### NEW QUESTION 108

What is an attribute of TLOC'?

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

**Answer: C**

#### NEW QUESTION 113

Refer to the exhibit.

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

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

- ☐ logs
  - audit-disable
  - netconf-disable
- ☐ logs
  - netconf-disable
- ☐ logging
  - disk netconf-disable
- ☒ logging
  - disk
  - audit-disable
  - netconf-disable

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

**Answer: B**

**Explanation:**

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

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

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

#### NEW QUESTION 114

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 118

An enterprise has several sites with multiple VPNs that are isolated from each other A new requirement came where users in VPN 73 must be able to talk to users in VPN 50 Which configuration meets this requirement?

- ☐ policy  
control-policy Route\_Leaking  
sequence 1  
match route  
vpn-list VPN\_73  
prefix-list \_AnyIpv4PrefixList  
action accept  
export-to vpn-list VPN\_50  
sequence 11  
match route  
vpn-list VPN\_50  
prefix-list \_AnyIpv4PrefixList  
action accept  
export-to vpn-list VPN\_73  
default-action accept
- ☐ policy  
control-policy Route\_Leaking  
sequence 1  
match route  
VPN\_73  
prefix-list \_AnyIpv4PrefixList  
export-to VPN\_50  
sequence 11  
match route  
VPN\_50  
prefix-list \_AnyIpv4PrefixList  
export-to VPN\_73  
default-action accept
- ☐ policy  
control-policy Route\_Leaking  
sequence 1  
match route  
VPN\_ALL  
prefix-list \_AnyIpv4PrefixList  
action accept  
export-to VPN\_ALL
- ☐ policy  
control-policy Route\_Leaking  
sequence 1  
match route  
VPN\_50 VPN\_73  
prefix-list \_AnyIpv4PrefixList  
action accept  
export-to VPN\_73 VPN\_50

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

Answer: A

#### NEW QUESTION 120

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

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

B)

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

C)

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

D)

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

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

**Answer: C**

#### NEW QUESTION 125

Which controller is used for provisioning and configuration in a Cisco SD-WAN solution?

- A. vBond
- B. Manage
- C. WAN Edge router
- D. vSmart

**Answer: B**

#### NEW QUESTION 128

Refer to the exhibit

```
vpn 1
service netsvc1 interface ipsec1

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

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

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

**Answer: B**

#### Explanation:

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



### NEW QUESTION 133

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 136

Which protocol runs between the vSmart controllers and WAN Edge routers when the vSmart controller acts like a route reflector?

- A. OMP outside the DTLS/TLS control connection
- B. BGP inside the DTLS/TLS
- C. IPsec inside the DTLS/TLS control connection
- D. OMP inside the DTLS/TLS control connection

**Answer:** D

### NEW QUESTION 140

An engineer wants to track tunnel characteristics within an SLA-based policy for convergence. Which policy configuration will achieve this goal?

- A. App-route policy
- B. VPN membership policy
- C. Control policy
- D. Data policy

**Answer:** A

#### Explanation:

An application-aware routing policy matches applications with an SLA, that is, with the data plane tunnel performance characteristics that are necessary to transmit the applications' data traffic. The primary purpose of application-aware routing policy is to optimize the path for data traffic being transmitted by Cisco SD-WAN devices.

### NEW QUESTION 145

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 148

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 151

Which two REST API functions are performed for Cisco devices in an overlay network? (Choose two)

- A. distributing a Snort image among devices
- B. attaching a device configuration template
- C. managing connections for smart licensing
- D. monitoring device certificates
- E. querying a device and aggregating statistics

**Answer:** BD

#### NEW QUESTION 154

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 158

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

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

**Answer:** BD

**Explanation:**

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

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

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

#### NEW QUESTION 161

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 166

Which protocol is used by the REST API to communicate with network services in the Cisco SD-WAN network?

- A. SSL
- B. HTTP
- C. iPsec
- D. SSM

Answer: B

NEW QUESTION 167

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

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

Answer: AE

Explanation:

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

NEW QUESTION 172

Refer to the exhibit.

<b>vManage</b>  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	<b>vSmart</b>  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
<b>vBond</b>  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 elhO interfaces on vManage and vSmart.
- D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

Answer: B

NEW QUESTION 177

An engineer must deploy a QoS policy with these requirements:

- policy name: App-policy

- 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 182

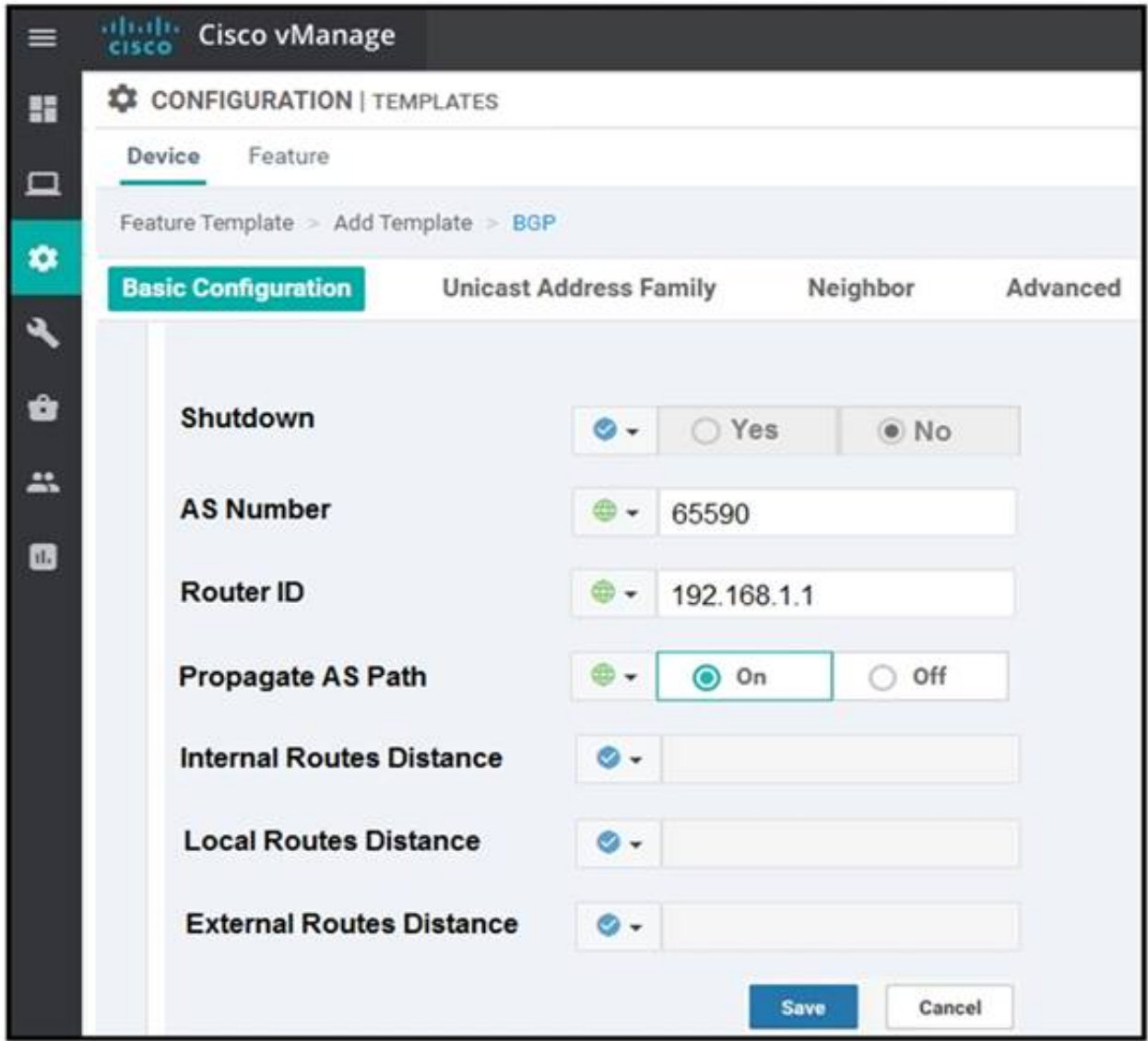
Which type of certificate is installed on vManage for a user to access vManage via a web browser?

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

Answer: D

NEW QUESTION 183

Refer to the exhibit.



Which configuration value is used to change the administrative distance of iBGP routes to 20?

- A. Configure internal Routes Distance to 20



- B. Configure Propagate AS Path to off
- C. Configure Local Distance to 20
- D. Configure External routes distance 20

Answer: C

NEW QUESTION 186

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 187

Drag and drop the steps from the left into the sequence on the right for a WAN Edge router after powering on for zero touch provisioning.

Router contacts a DNS service.	1
Router establishes a connection to vBond.	2
Router contacts a DHCP server.	3
Router connects to the ZTP server.	4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Router contacts a DNS service.	Router contacts a DHCP server.
Router establishes a connection to vBond.	Router contacts a DNS service.
Router contacts a DHCP server.	Router connects to the ZTP server.
Router connects to the ZTP server.	Router establishes a connection to vBond.

NEW QUESTION 190

How is a TLOC uniquely identified from a WAN Edge router to the SD-WAN transport network?

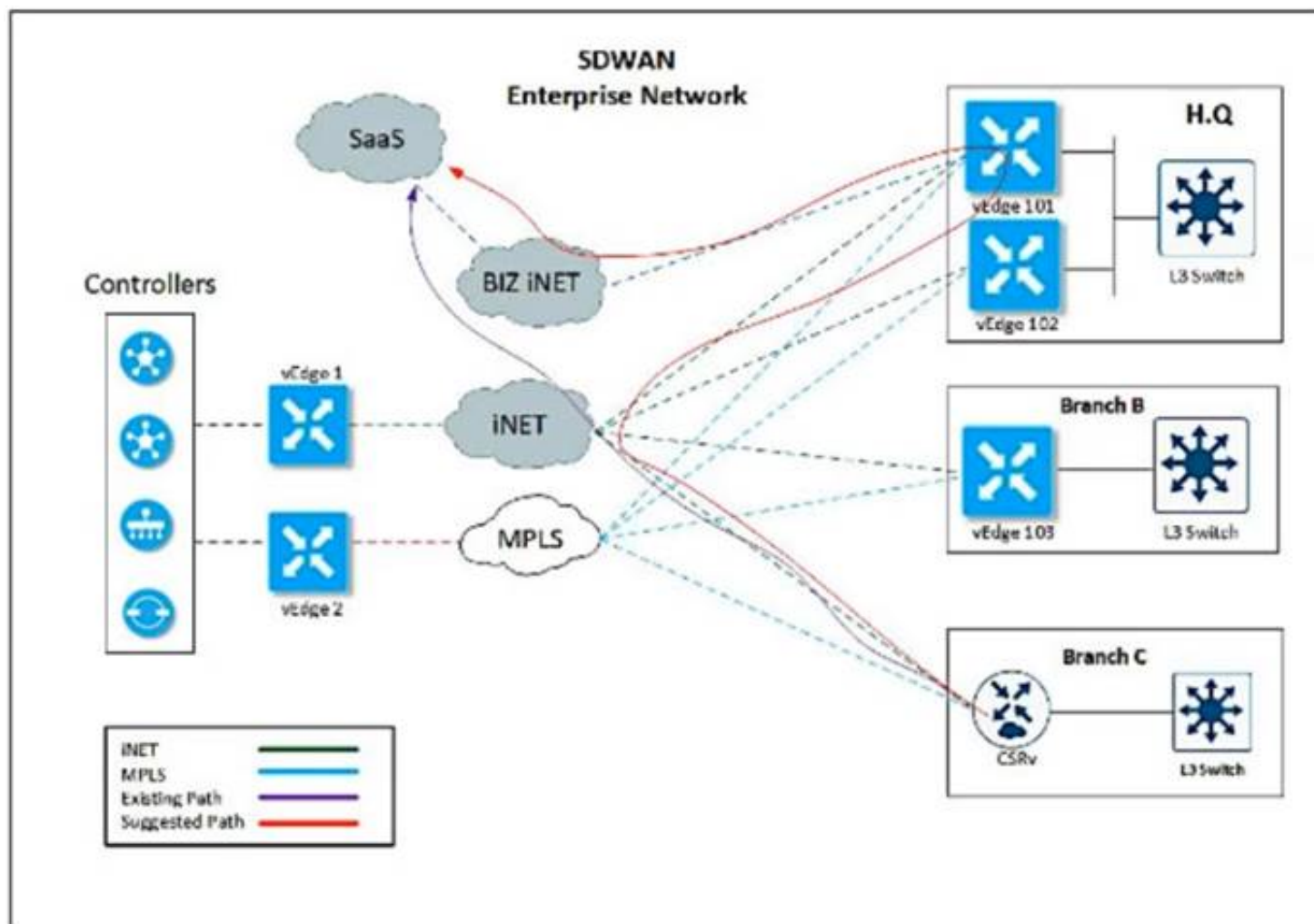
- A. system IP address
- B. VPN ID
- C. OMP
- D. SD-WAN site ID

Answer: A

NEW QUESTION 191

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 194

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

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

**Answer: C**

**Explanation:**

Cisco vSmart Controller

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

#### NEW QUESTION 197

Which issue triggers the Cisco Umbrella resolver to toward DNS requests to the intelligent proxy? Which issue triggers the Cisco Umbrella resolver to toward 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 200

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 template configures the out-of-band management VPN?

A)

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

B)

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

C)

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

D)

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

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

**Answer: C**

**NEW QUESTION 205**

Which protocol is used to measure jitter, loss, and latency on SD-WAN overlay tunnels?

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



Answer: D

### NEW QUESTION 208

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)

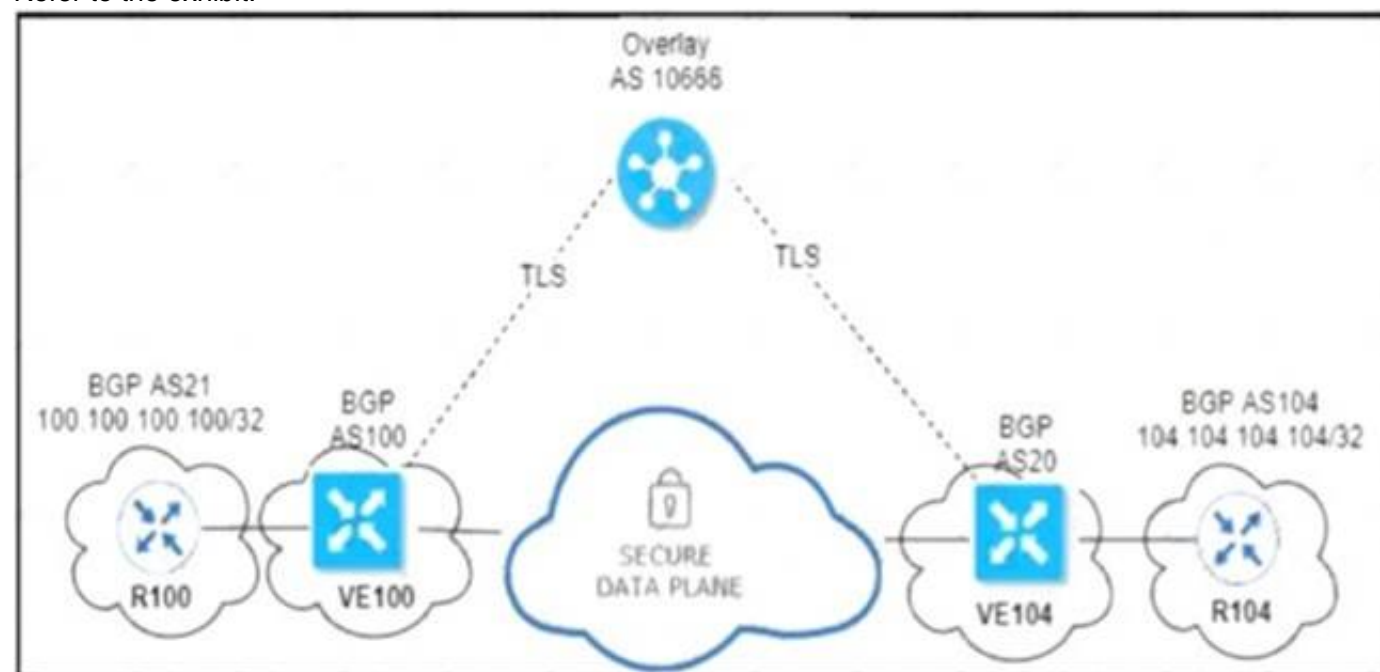
PEER PEER INSTANCE COLOR	PEER TYPE STATE	PEER PRIVATE PROTOCOL	PEER 0.0.0.0 NOERR	SITE SYSTEM IP 9	DOMAIN PUBLIC ID 2019-06-01T19:06:32+0200	ID COUNT	PRIVATE IP DOWNTIME	LOCAL PORT 12346	REMOTE PUBLIC IP 192.168.0.231	REPEAT PORT 12346	REMOTE default
0	vbond	dtls	0.0.0.0	9	0	0	192.168.0.231	12346	192.168.0.231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

- 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 213

Refer to the exhibit.



An engineer configured OMP with an overlay-as of 10666. What is the AS-PATH for prefix 104.104.104.104/32 on R100?

- A. 100 10666
- B. 100 20 104
- C. 100 10666 20 104
- D. 100 10666 104

Answer: A

### NEW QUESTION 218

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 222

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

matching condition that allows traffic flow between two zones	destination zone
grouping of VPNs where the data traffic flows originate	firewall policy
container that associates forwarding and blocking decisions	source zone
grouping of VPNs where the data traffic flows terminate	zone pair

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

Service Chaining

Traffic Flow Monitoring with Cflow

#### NEW QUESTION 223

Which OMP route is selected for equal OMP route preference values on WAN Edge routers?

- A. route with higher TLOC preference value
- B. route with origin type of connected
- C. route with origin type of static
- D. route with lower TLOC preference value

**Answer:** A

#### NEW QUESTION 228

Which IP address must be reachable by a WAN Edge device for the ZIP process to work?

- A. 10.1.1.1
- B. 4.4 4.4
- C. 172.16.1.1
- D. 8.8.8.8

**Answer:** D

#### NEW QUESTION 229

Which two protocols are supported for software image delivery when images are hosted on a remote server? (Choose two.)

- A. HTTPS
- B. SSL
- C. HTTP
- D. TFTP
- E. FTP

**Answer:** DE

#### NEW QUESTION 233

Which SD-WAN component is configured to enforce a policy to redirect branch-to-branch traffic toward a network service such as a firewall or IPS?

- A. vBond
- B. WAN Edge



- C. vSmart
- D. Firewall

**Answer: C**

**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**

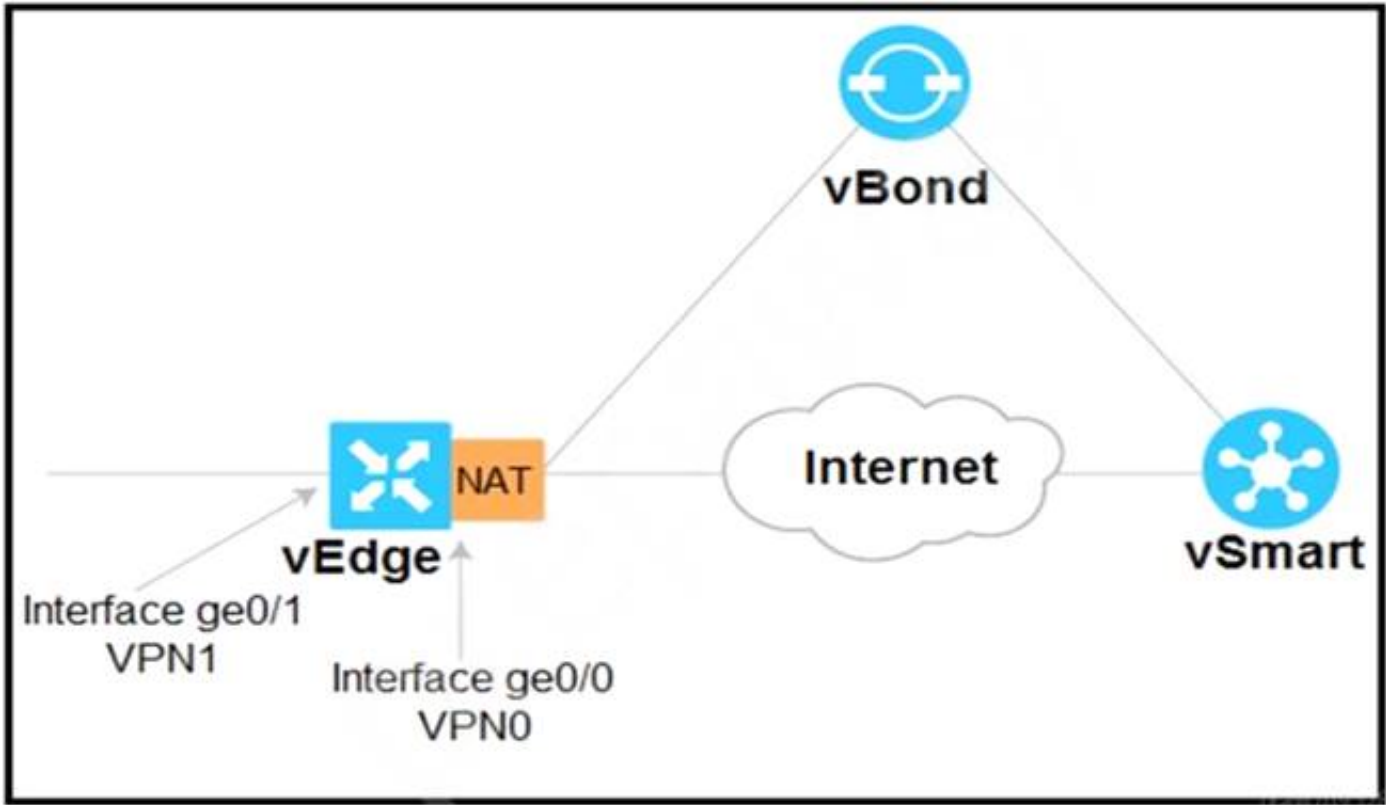
**Explanation:**

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 241**

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 244

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