

## 300-415 Dumps

### Implementing Cisco SD-WAN Solutions (ENSDWI)

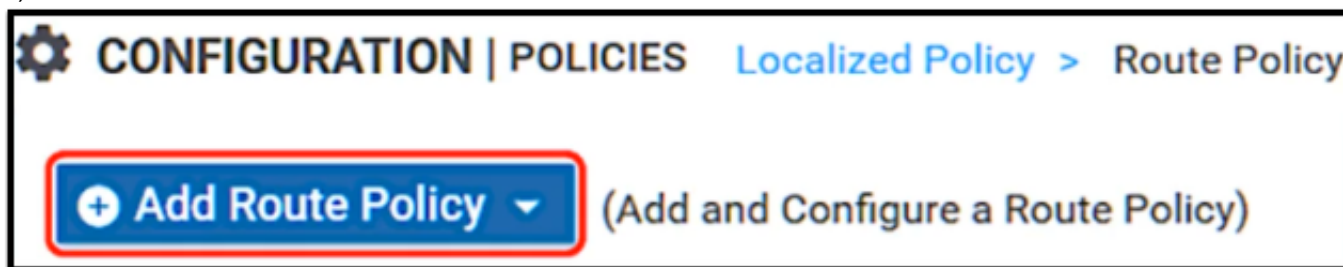
<https://www.certleader.com/300-415-dumps.html>



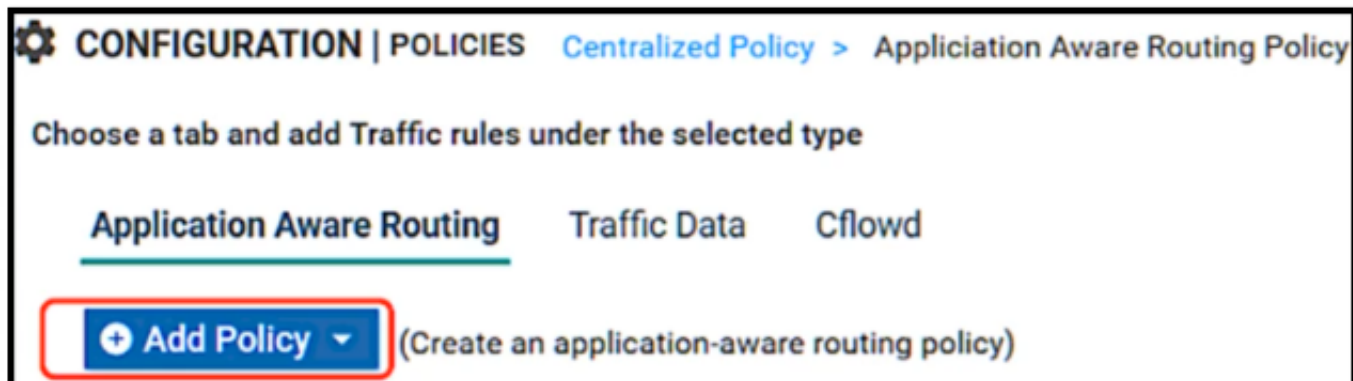
### NEW QUESTION 1

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).

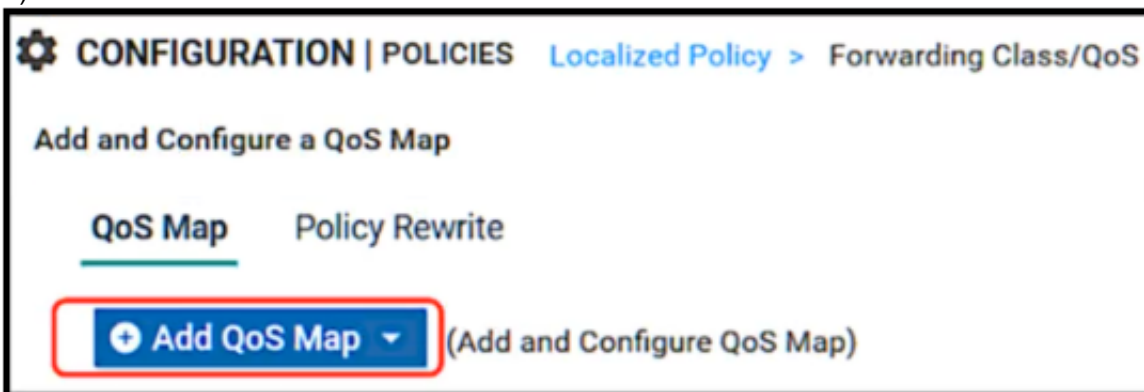
A)



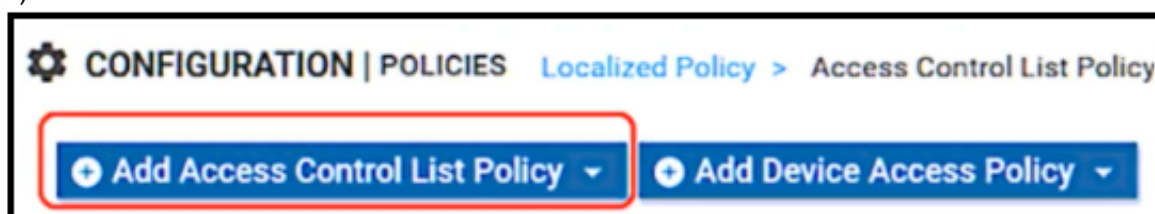
B)



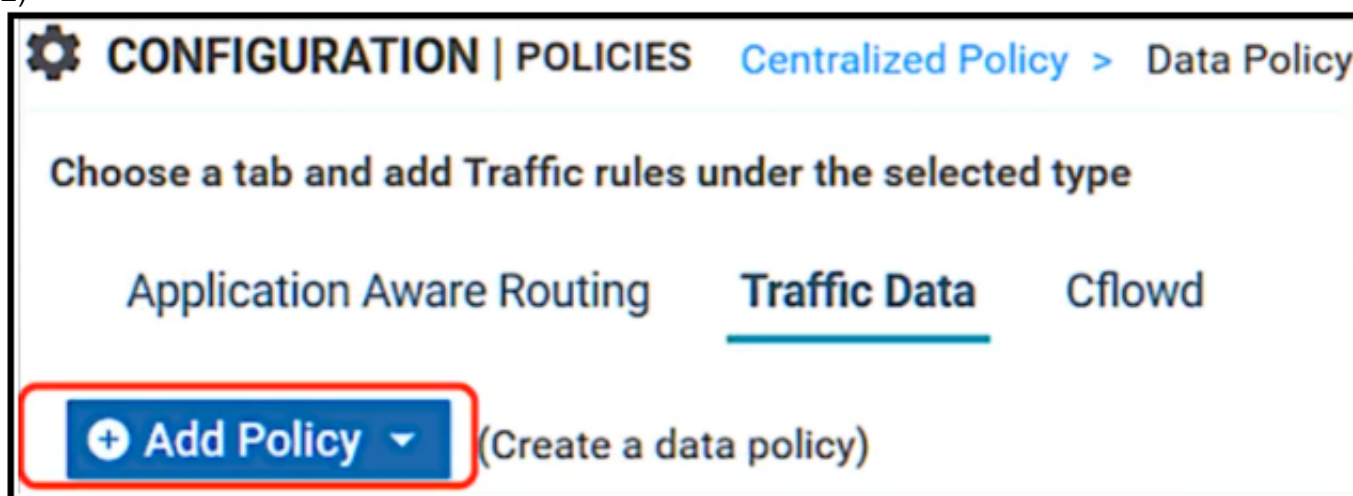
C)



D)



E)



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

Answer: AC

### NEW QUESTION 2

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 3

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 4

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

```
from-vsmart data-policy_1_ServiceIsertionIPSec
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 5

Which configuration component is used in a firewall security policy?

- A. numbered sequences of match-action pairs
- B. application match parameters
- C. URL filtering policy
- D. intrusion prevention policy

**Answer:** A

#### NEW QUESTION 6

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 7

On which device is a service FW address configured to Insert firewall service at the hub?

- A. vEdge at the branch
- B. vSmart at the hub
- C. vEdge at the hub
- D. vSmart at the branch

**Answer:** C

#### NEW QUESTION 8

Which pathway under Monitor > Network > Select Device is used to verify service insertion configuration?

- A. Real Time
- B. System Status
- C. ACL Logs
- D. Events

**Answer:** A

**Explanation:**

- Using Cisco vManage:

View the configured services on the Real Time monitoring page (**Monitor > Network > hub-device > Real Time**). For Device Options, select OMP Services.

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

#### NEW QUESTION 9

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

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

**Answer:** AE

**Explanation:**

### Supported Protocols

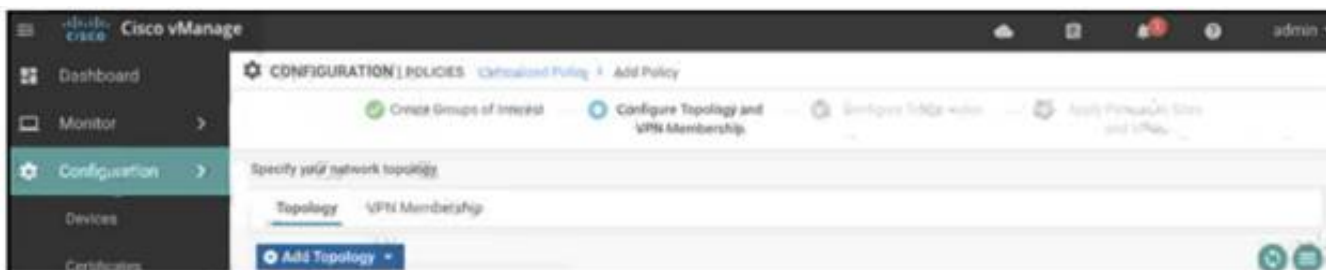
This section explains the protocols supported for unicast routing.

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

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

#### NEW QUESTION 10

Refer to the exhibit.



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

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 10**

What are the default username and password for vSmart Controller when it is installed on a VMware ESXi hypervisor'?

- A. username Cisco password admin
- B. username admin password Cisco
- C. username Cisco password Cisco
- D. username admin password admin

**Answer: D**

**NEW QUESTION 13**

Refer to the exhibit

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

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

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

**Answer: B**

**NEW QUESTION 15**

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

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

**Answer: D**

**NEW QUESTION 16**

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

A)

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

B)

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

C)

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

D)

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

- A. Option A
- B. Option B

- C. Option C
- D. Option D

**Answer:** D

#### NEW QUESTION 21

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

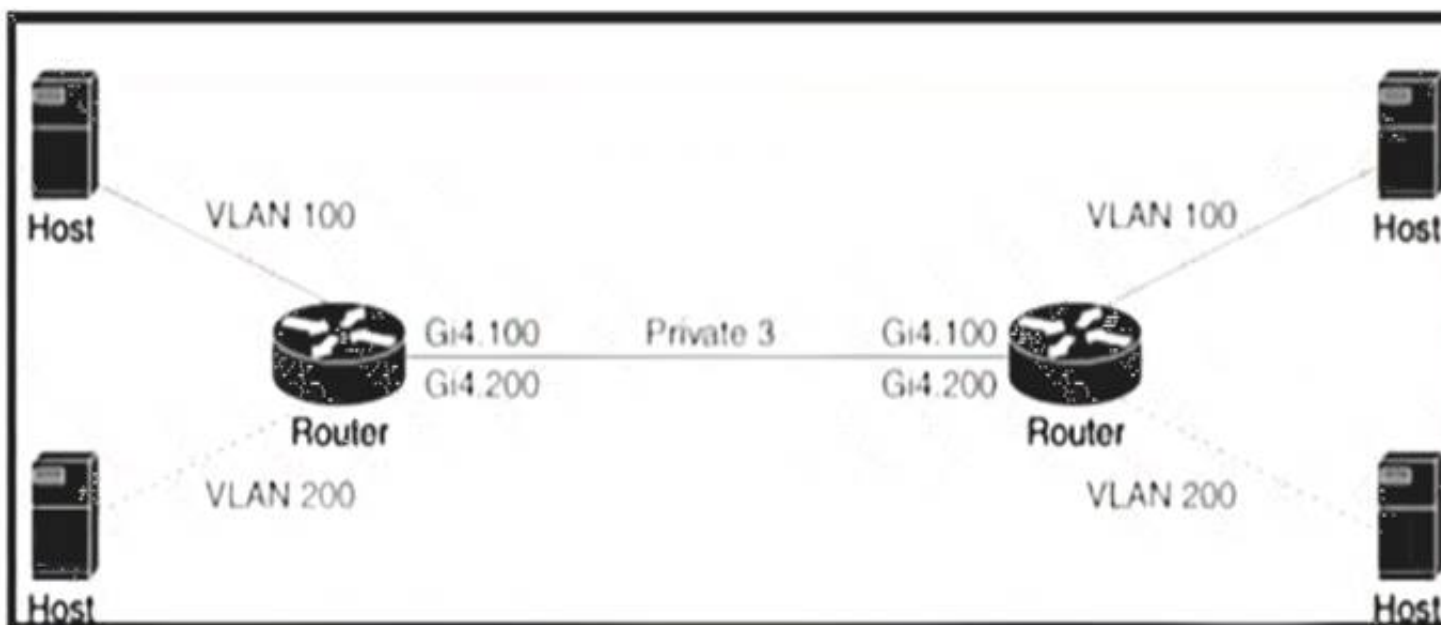
- ☐ vpn 512  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service netconf  
no allow-service ntp  
no allow-service stun
- ☐ vpn 0  
interface eth1  
ip address 199.1.1.1/28  
tunnel-interface  
allow-service sshd  
allow-service ntp
- ☐ vpn 512  
interface eth1  
ip address 199.1.1.1/28  
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 23

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)

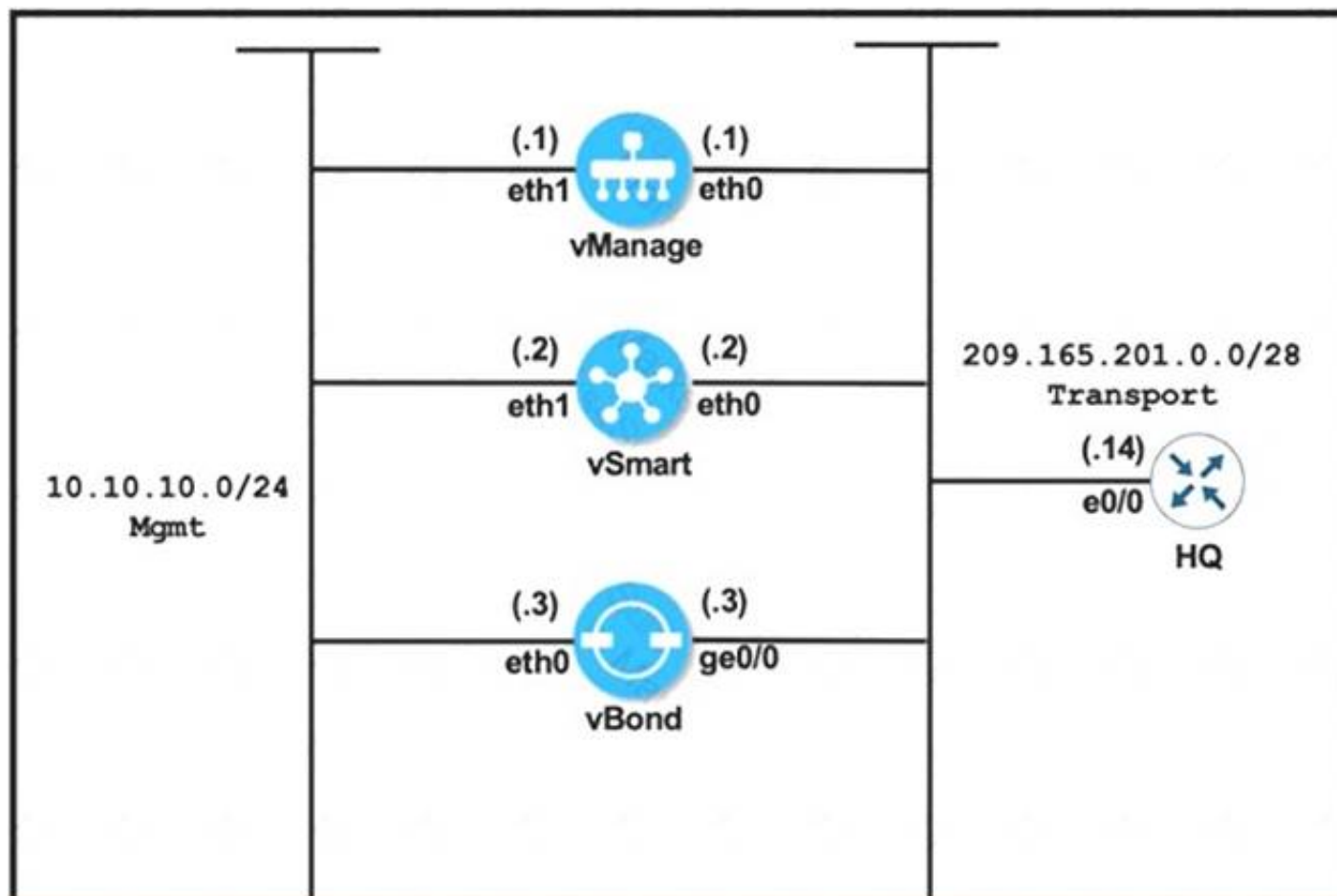
```
policy-map shape_GigabitEthernet4.200
class class Queue0
service-policy xyz_QoS-model
shape average 100000000
!
interface GigabitEthernet4.100
encapsulation dot1Q 100
service-policy output shape_GigabitEthernet4.100
```

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

Answer: C

### NEW QUESTION 28

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 vpiptela.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 33**

An engineer wants to change the configuration of the certificate authorization mode from manual to automated. Which GUI selection will accomplish this?

- A. Maintenance > Security
- B. Configuration > Certificates
- C. Administration > Settings
- D. Tools > Operational Commands

**Answer:** C

**Explanation:**

Runbook to Request and Install Cisco PKI Certificates

1. Verify that you have satisfied the prerequisites and that you have added the Smart Account credentials.
2. Navigate to **Administration ► Settings ► Controller Certificate Authorization** and press Edit.
3. Select the **radio button Cisco Automated** (Recommended).

**NEW QUESTION 35**

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

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

**Answer:** A

**NEW QUESTION 37**

Which secure connection should be used to access the REST APIs through the Cisco vManage web server?

- A. HTTP inspector interface
- B. authenticated HTTPS
- C. authenticated DTLS
- D. JSON Inspector interface

**Answer:** B

**Explanation:**

<https://documenter.getpostman.com/view/3224967/SVmpXhXd#ed9ccd34-cc5a-4258-bb6b-9b3848b7f650>

**NEW QUESTION 40**

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 44**

Drag and drop the devices from the left into order on the right to upgrade the software from version 19 to version 20.

WAN Edge	1
vBond	2
vManage	3
vSmart	4

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

WAN Edge	vManage	1
vBond	vBond	2
vManage	vSmart	3
vSmart	WAN Edge	4

#### NEW QUESTION 45

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 48

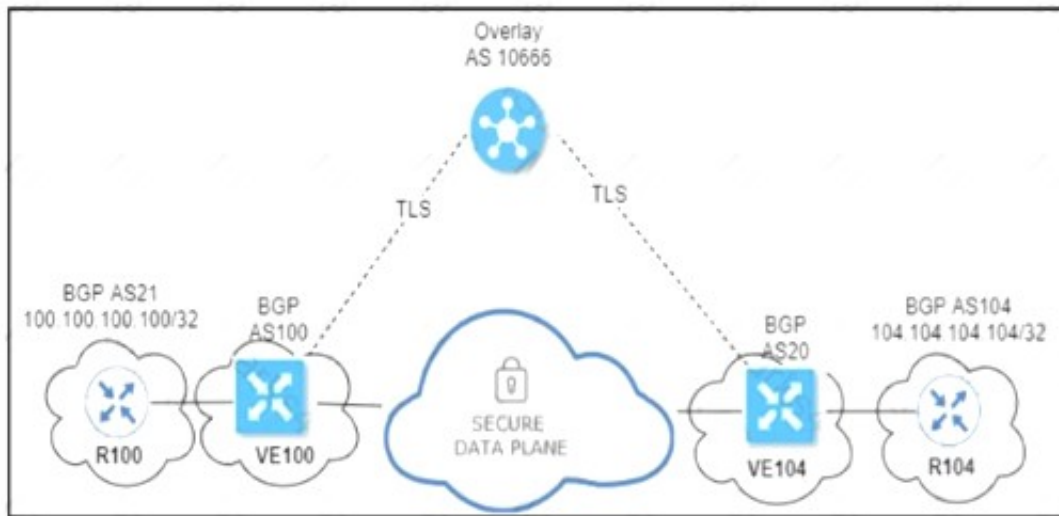
What are the two advantages of deploying cloud-based Cisco SD-WAN controllers? (Choose two.)

- A. centralized control and data plane  
B. distributed authentication policies  
C. management of SLA  
D. infrastructure as a service  
E. centralized raid storage of data

**Answer:** CD

#### NEW QUESTION 51

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 54

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?

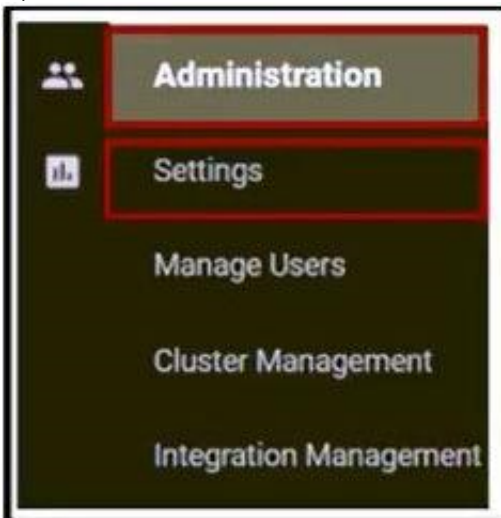
A)



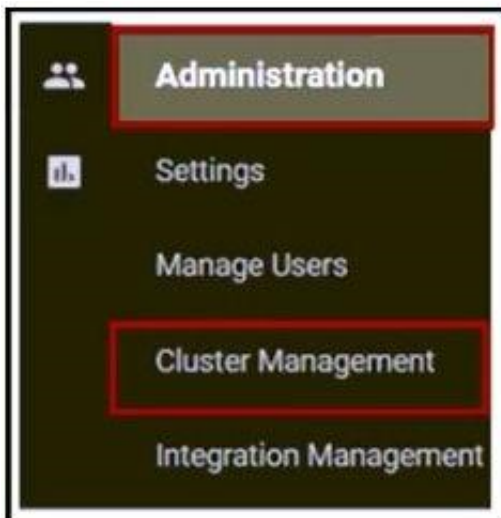
B)



C)



D)



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

**Answer:** B

**NEW QUESTION 55**

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 60**

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

A)

VPN 10

ip route 0.0.0.0/0 vpn 0

B)

VPN 10

ip route 0.0.0.0/0 vpn 0

VPN 0

interface Gig1/1

nat

C)



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

D)

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

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

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

**Answer:** B

**Explanation:**

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

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

**NEW QUESTION 62**

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 65**

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 70

Two sites have one WAN Edge each WAN Edge has two public TLOCs with no restriction configured. There is full reachability between the TLOCs. How many data tunnels are formed on each Edge router?

- A. 2
- B. 8
- C. 6
- D. 4

**Answer:** D

#### NEW QUESTION 72

Which protocol advertises WAN edge routes on the service side?

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

**Answer:** B

#### NEW QUESTION 77

What is a requirement for a WAN Edge to reach vManage, vBond, and vSmart controllers in a data center?

- A. IGP
- B. QoS
- C. TLS
- D. OMP

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 82

What is the behaviour of vBond orchestrator?

- A. It maintains vSmart and WAN Edge routers secure connectivity state
- B. it builds permanent connections with vSmart controllers
- C. it updates vSmart of WAN Edge routers behind NAT devices using OMP.
- D. It builds permanent connections with WAN Edge routers

**Answer:** A

#### NEW QUESTION 86

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
```

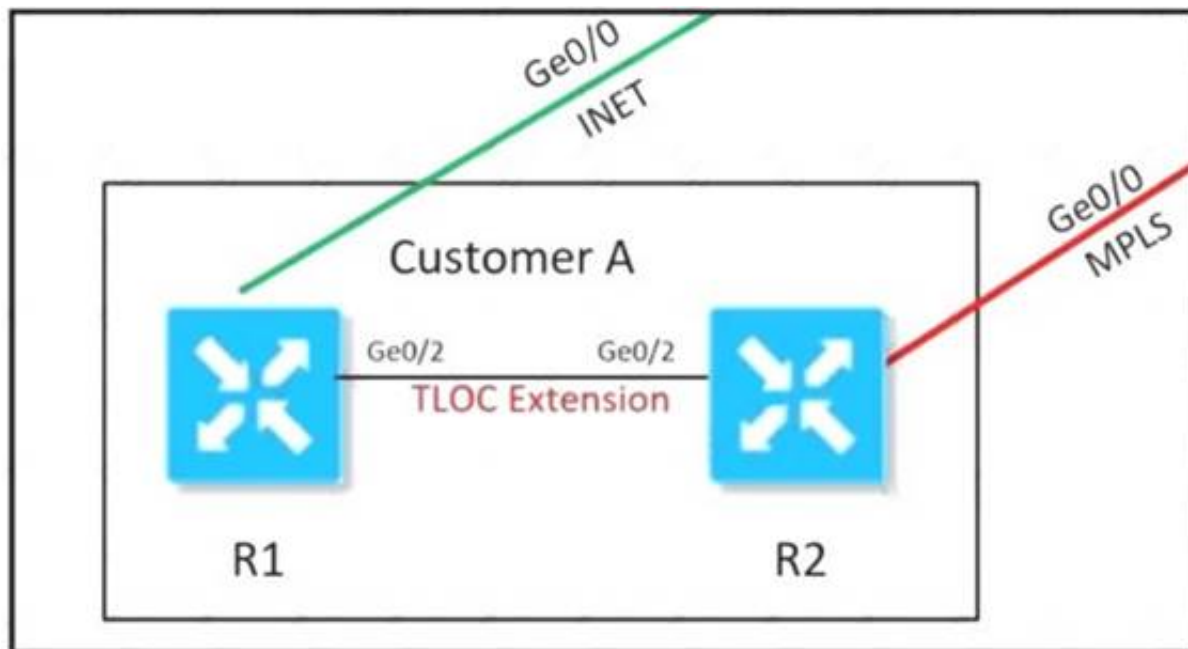
A vBond controller was added to the controller list with the same Enterprise Root CA certificate as vManage. The two controllers can reach each other via VPNO and share the same organization name, but the control connection is not initiated- Which action resolves the issue?

- 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 90**

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 93

Refer to the exhibit

MONITOR | AUDIT LOG

Filter Module: vManage Root CA

1h 3h 6h 12h 24h 7days Custom

Search Options

Total Rows: 10

Timestamp	User	User IP	Message	Module	Feature	Device	Task ID	
18 Dec 2020	system	10.1.1.1	Uploaded root ca uaid list file on vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Transferred root ca uaid list file to vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Installed root cert chain on vBond-d3aa12fd-b02...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Transferred root cert chain file to vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Installed root cert chain on vSmart-547bad3f-04...	vmanage-roo...	vmanage-root-ca	10.2.2.2	547bad3f-04e0-4d0f-b654	...
18 Dec 2020	system	10.1.1.1	Transferred root cert chain file to vSmart-547bad...	vmanage-roo...	vmanage-root-ca	10.2.2.2	547bad3f-04e0-4d0f-b654	...
18 Dec 2020	system	10.1.1.1	Uploaded root ca uaid list file on vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Installed root cert chain on vManage-6842d5cf...	vmanage-roo...	vmanage-root-ca	10.1.1.1	6842d5cf-ce74-41a0-9ff5	...
18 Dec 2020	system	10.1.1.1	Transferred root ca uaid list file to vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Transferred root cert chain file to vManage-6842...	vmanage-roo...	vmanage-root-ca	10.1.1.1	6842d5cf-ce74-41a0-9ff5	...

**vManage# show certificate installed**

**Server certificate**

**Certificate:**

**Data:**

**Version: 1 (0x0)**

**Serial Number:**

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

**Signature Algorithm: sha256WithRSAEncryption**

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

**Validity**

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

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

**Subject: C=US, ST=California, L=San Jose, OU=ABC, O=vIPtela Inc, CN=vmanage-6842d5cf-ce74-41a0-9ff5-10e810f9ddab-0.vm**

**Subject Public Key Info:**

**Public Key Algorithm: rsaEncryption**

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

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

A)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

B)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

C)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

D)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

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

**Answer: C**

**Explanation:**

7. Generate Root CA certificate named **rootca.pem** and sign it with **rootca.key** that was generated on the previous step.

```
vmanage:~/web$ openssl req -x509 -new -nodes -key rootca.key -sha256 -days 4000 -out rootca.pem
```

#### NEW QUESTION 98

An engineer must configure two branch WAN Edge devices where an Internet connection is available and the controllers are in the headquarters. The requirement is to have IPsec VPN tunnels established between the same colors. Which configuration meets the requirement on both WAN Edge devices?

- ☒ WAN Edge 1
 

```
vpn 0
interface ge0/0
ip address 10.0.0.1/24
ipv6 dhcp-client
tunnel-interface
color biz-internet restrict
encapsulation ipsec
```
- ☐ WAN Edge 2
 

```
vpn 0
interface ge0/0
ip address 10.0.0.2/24
ipv6 dhcp-client
tunnel-interface
color default
encapsulation ipsec
```

WAN Edge 1

```
vpn 0
interface ge0/0
ip address 10.0.0.1/24
ipv6 dhcp-client
tunnel-interface
color default
encapsulation ipsec
```

WAN Edge 2

```
vpn 0
interface ge0/0
ip address 10.0.0.2/24
ipv6 dhcp-client
tunnel-interface
color default
encapsulation ipsec
```

WAN Edge 1

```
vpn 0
interface ge0/0
ip address 10.0.0.1/24
ipv6 dhcp-client
tunnel-interface
color public-internet restrict
encapsulation ipsec
```

WAN Edge 2

```
vpn 0
interface ge0/0
ip address 10.0.0.2/24
ipv6 dhcp-client
tunnel-interface
color gold restrict
encapsulation ipsec
```

WAN Edge 1

```
vpn 0
interface ge0/0
ip address 10.0.0.1/24
ipv6 dhcp-client
tunnel-interface
color gold restrict
encapsulation ipsec
```

WAN Edge 2

```
vpn 0
interface ge0/0
ip address 10.0.0.2/24
ipv6 dhcp-client
tunnel-interface
color gold restrict
encapsulation ipsec
```

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

**Answer:** D

#### NEW QUESTION 99

Which storage format is used when vManage is deployed as a virtual machine on a KVM hypervisor?

- A. .iso
- B. .qcow2
- C. .ova
- D. .tgz

**Answer:** B

#### NEW QUESTION 104

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 106**

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

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

**Answer:** C

**NEW QUESTION 108**

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

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

**Answer:** C

**Explanation:**

**Centralized Policy**

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

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

**NEW QUESTION 112**

What is the maximum number of IPsec that are temporarily created and converged on a new set of IPsec SAs in the pairwise keys process during a simultaneous rekey?

- A. 2
- B. 4
- C. 6
- D. 8

**Answer:** B

**NEW QUESTION 116**

Which platforms are managed by a single vManage dashboard?

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

**Answer:** C

**NEW QUESTION 117**

An engineer must automate certificate signing through Cisco. Which vManage configuration achieves this task?

A)

```
vpn 0
  dns 208.67.222.222 primary
  allow-service dns
  allow-service sshd
  allow-service netconf
```

B)

```
vpn 0
  allow-service dns
  allow-service sshd
  allow-service netconf
```

C)

```
vpn 512
  dns 208.67.222.222 primary
  allow-service dns
  allow-service sshd
  allow-service netconf
```



D)

```
vpn 512
allow-service dns
allow-service sshd
allow-service netconf
```

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

**Answer:** A

#### NEW QUESTION 121

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

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

**Answer:** C

#### NEW QUESTION 126

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

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

**Answer:** C

#### NEW QUESTION 130

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

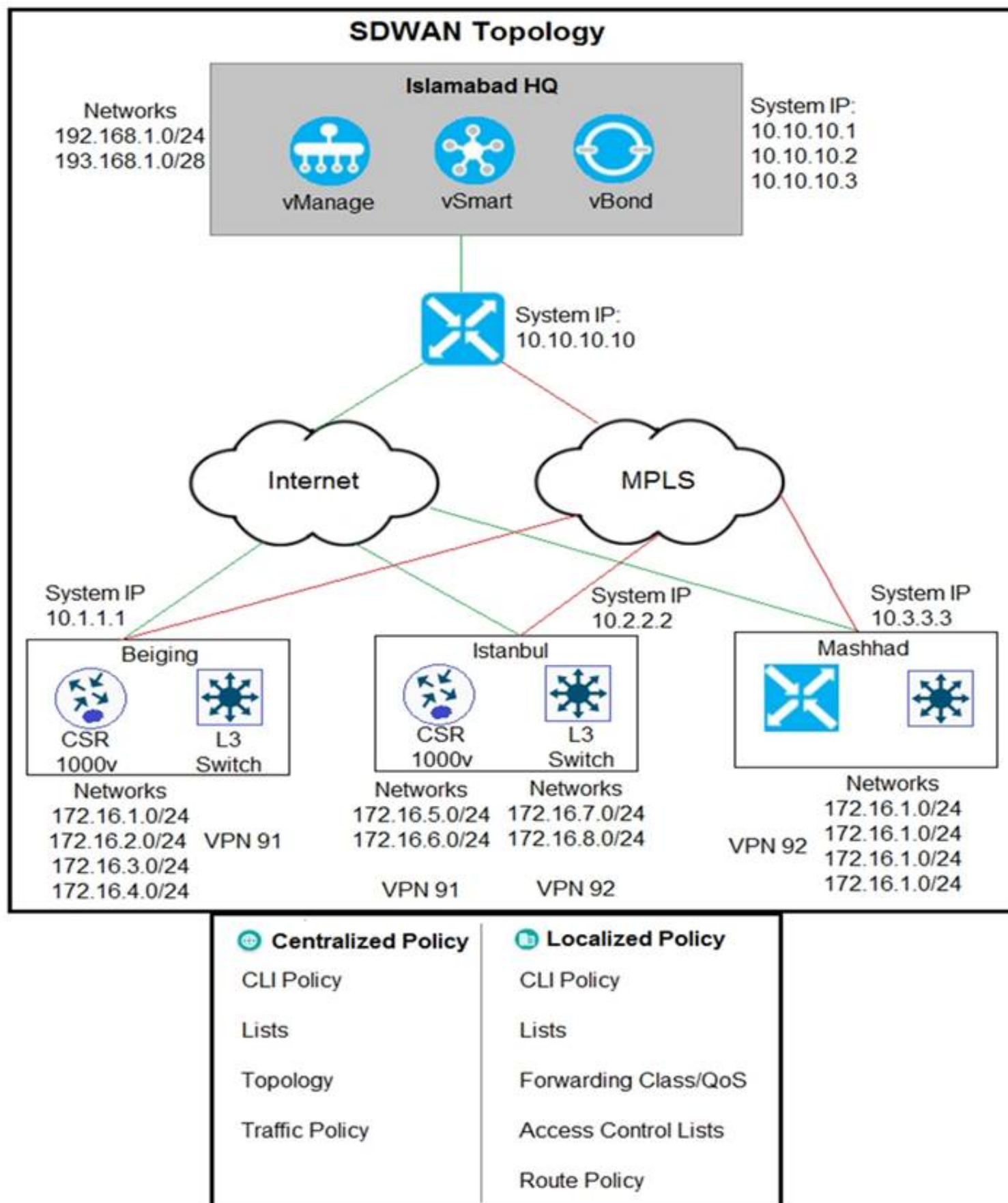
**Answer:** D

#### 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 131

Refer to the exhibit



The Cisco SD-WAN network is configured with a default full-mesh topology. Islamabad HQ and Islamabad WAN Edges must be used as the hub sites. Hub sites MPLS TLOC must be preferred when forwarding FTP traffic based on a configured SLA class list. Which policy configuration does the network engineer use to call the SLA class and set the preferred color to MPLS?

- A. Localized Policy, Route Policy
- B. Centralized Policy, Traffic Policy
- C. Localized Policy, Forwarding Class
- D. Centralized Policy Topology

**Answer: B**

### NEW QUESTION 133

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 137**

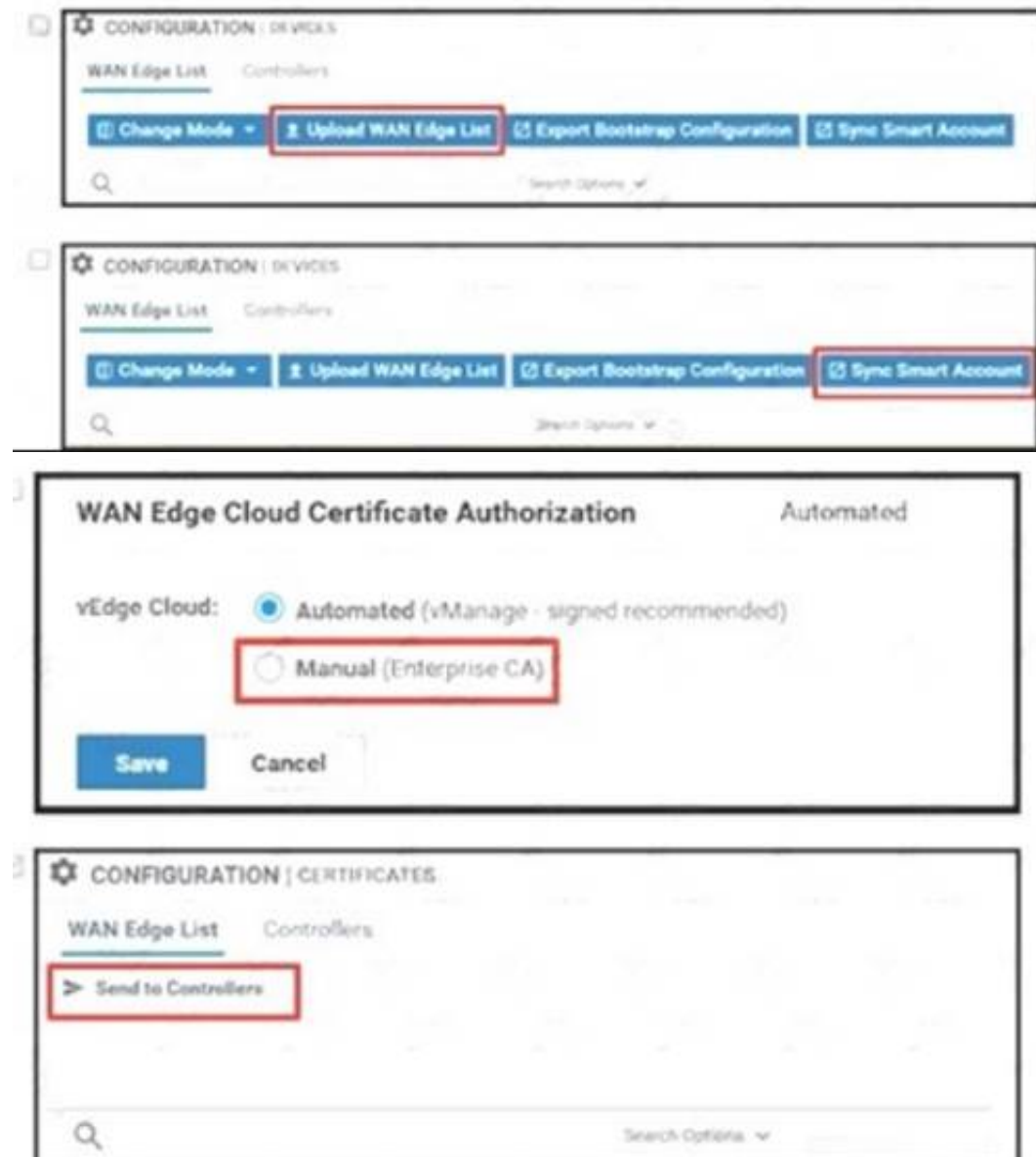
Which encryption algorithm is used for encrypting SD-WAN data plane traffic?

- A. Triple DES
- B. IPsec
- C. AES-128
- D. AES-256 GCM

**Answer:** D

**NEW QUESTION 140**

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



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

**Answer:** AB

**Explanation:**

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

**NEW QUESTION 143**

What is an attribute of TLOC'?

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

**Answer:** C

**NEW QUESTION 145**

Which type of policy must be applied on a WAN Edge application-aware firewall to control traffic between two or more VPNs?

- A. service-insertion policy
- B. data policy
- C. firewall policy
- D. control policy

**Answer:** C

#### NEW QUESTION 147

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 150

Which command disables the logging of syslog messages to the local disk?

- A. no system logging disk enable
- B. no system logging disk local
- C. system logging disk disable
- D. system logging server remote

**Answer:** A

#### NEW QUESTION 153

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

- A)
 

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



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

C)

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

D)

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

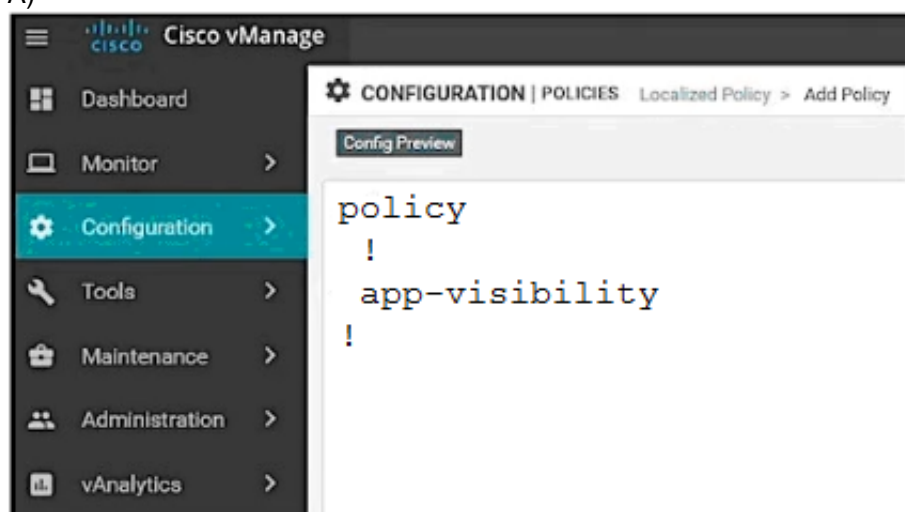
- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

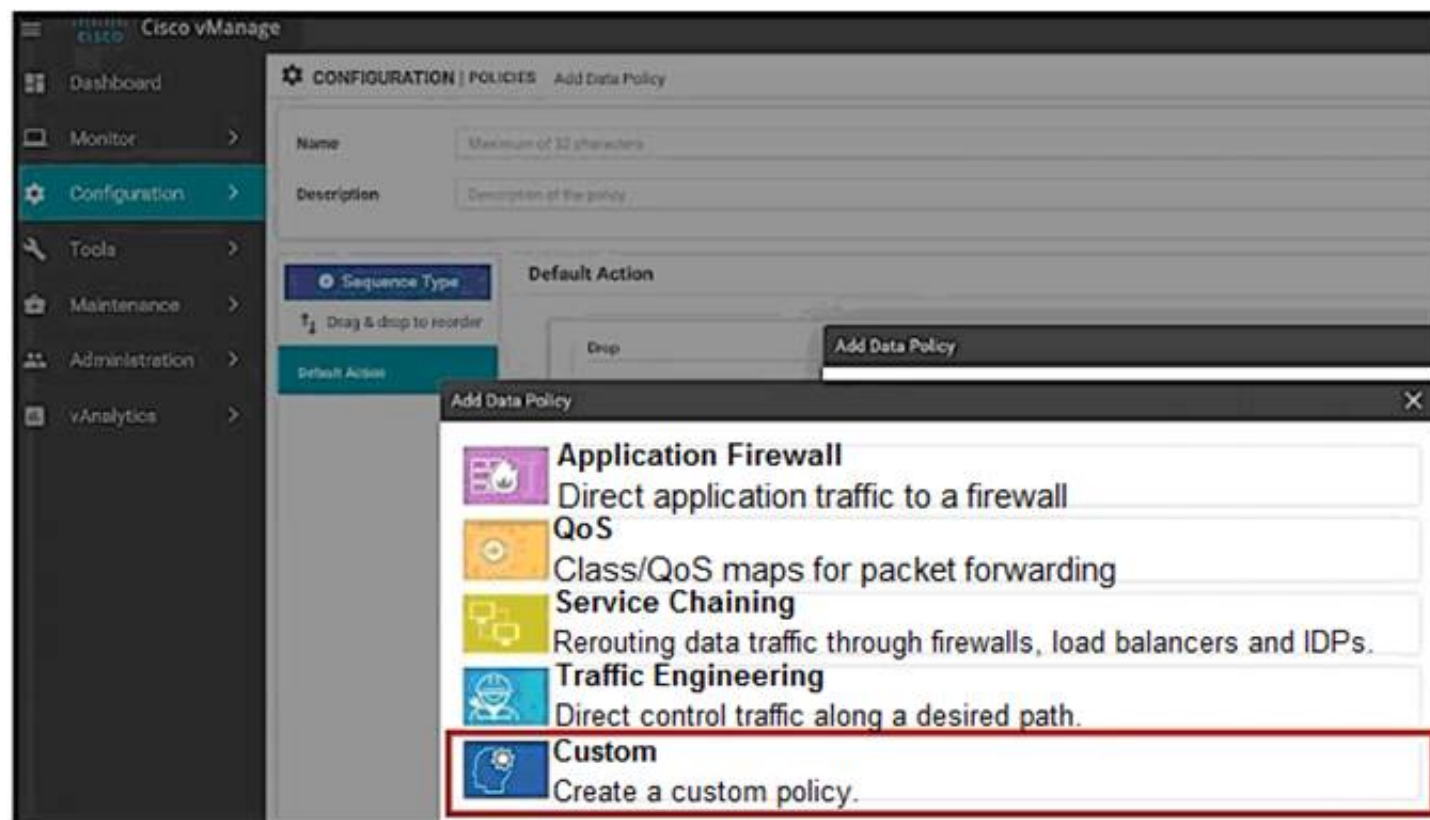
#### NEW QUESTION 158

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

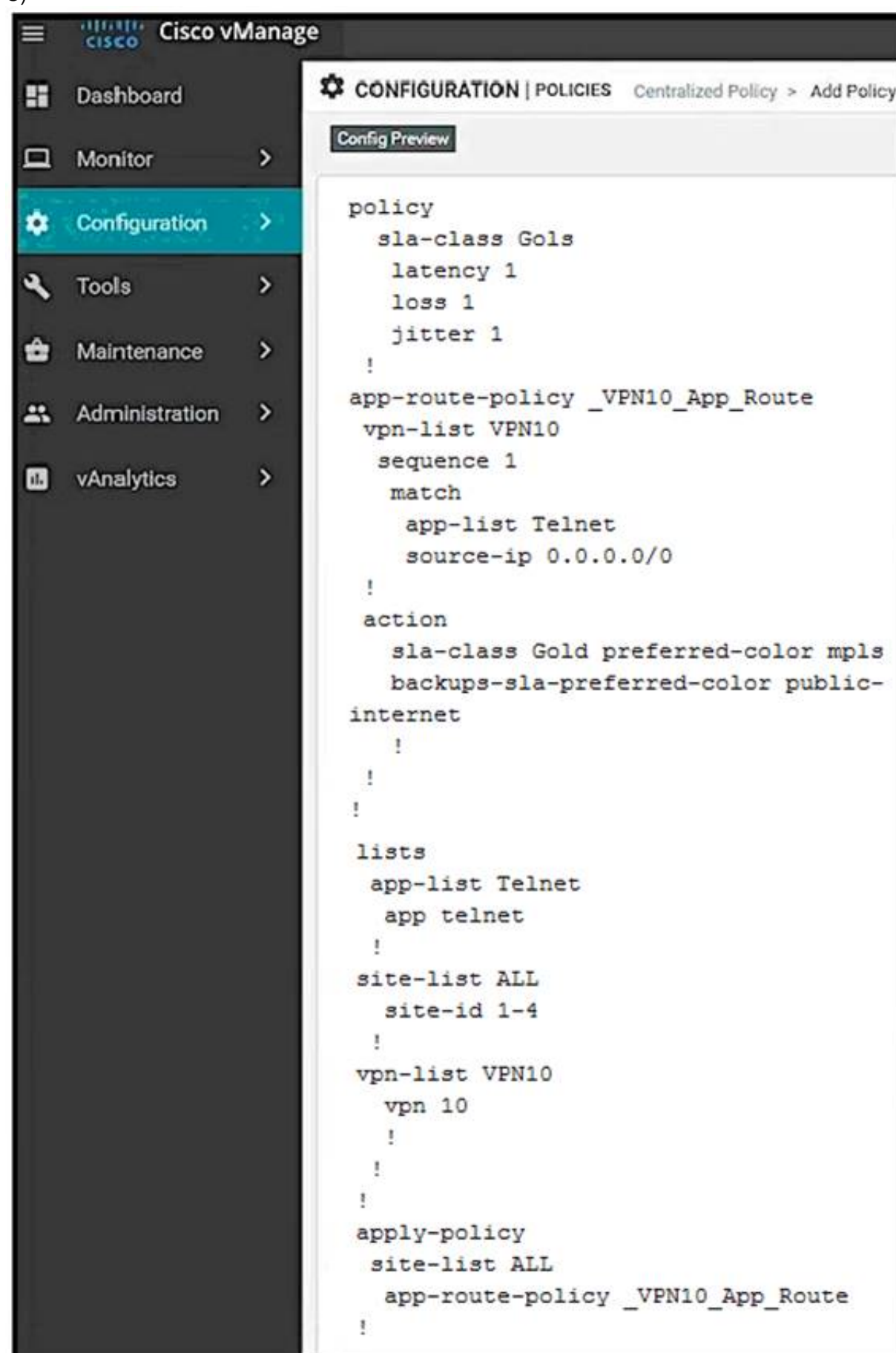
A)



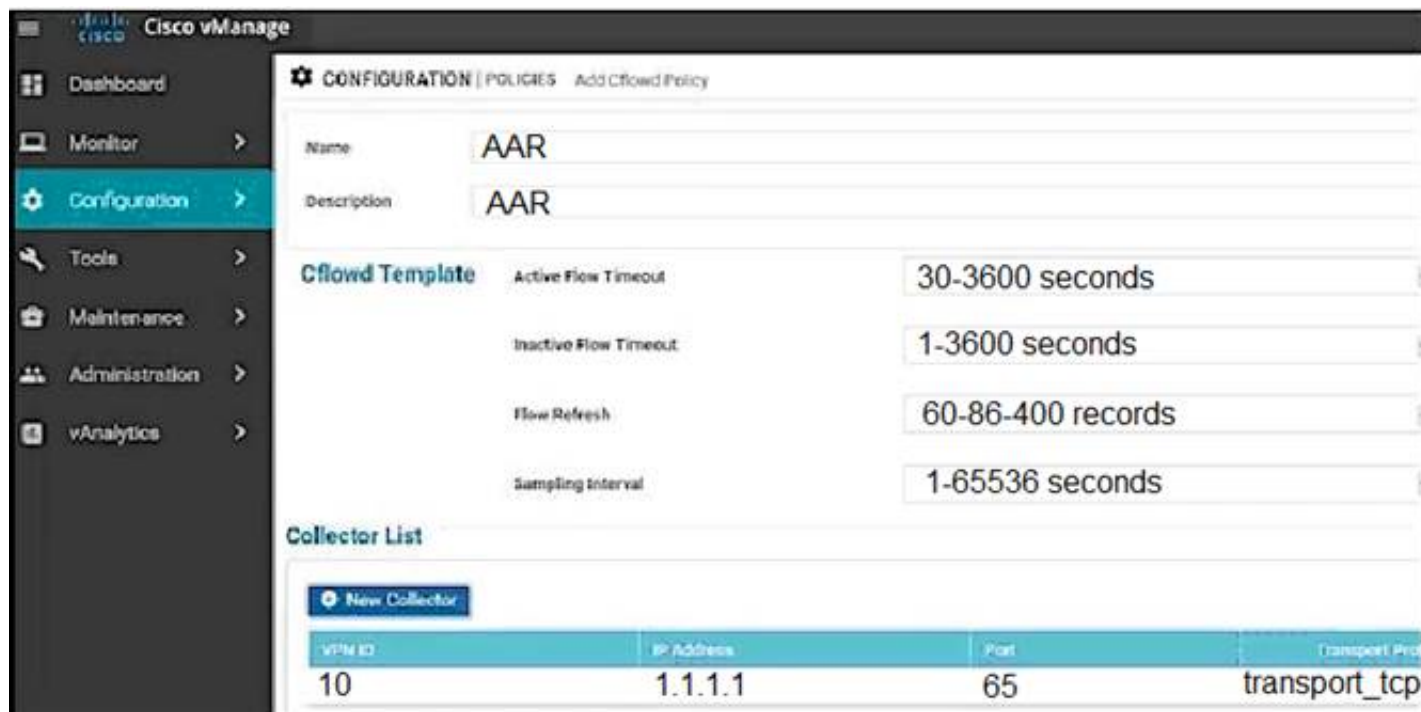
B)



C)



D)



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

**Answer:** D

#### NEW QUESTION 162

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 166

Drag and drop the actions from the left into the correct sequence on the right to create a data policy to direct traffic to the Internet exit.

Apply data policy	Step 1
Enable NAT functionality	Step 2
Create centralized data policy	Step 3
Identify VPN and match criteria	Step 4

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Step 1 – Enable NAT Functionality Step 2 – Create centralized data policy  
Step 3 – Identify VPN and match criteria Step 4 – Apply data policy

#### NEW QUESTION 169

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 170

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

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

**Answer: D**

#### NEW QUESTION 175

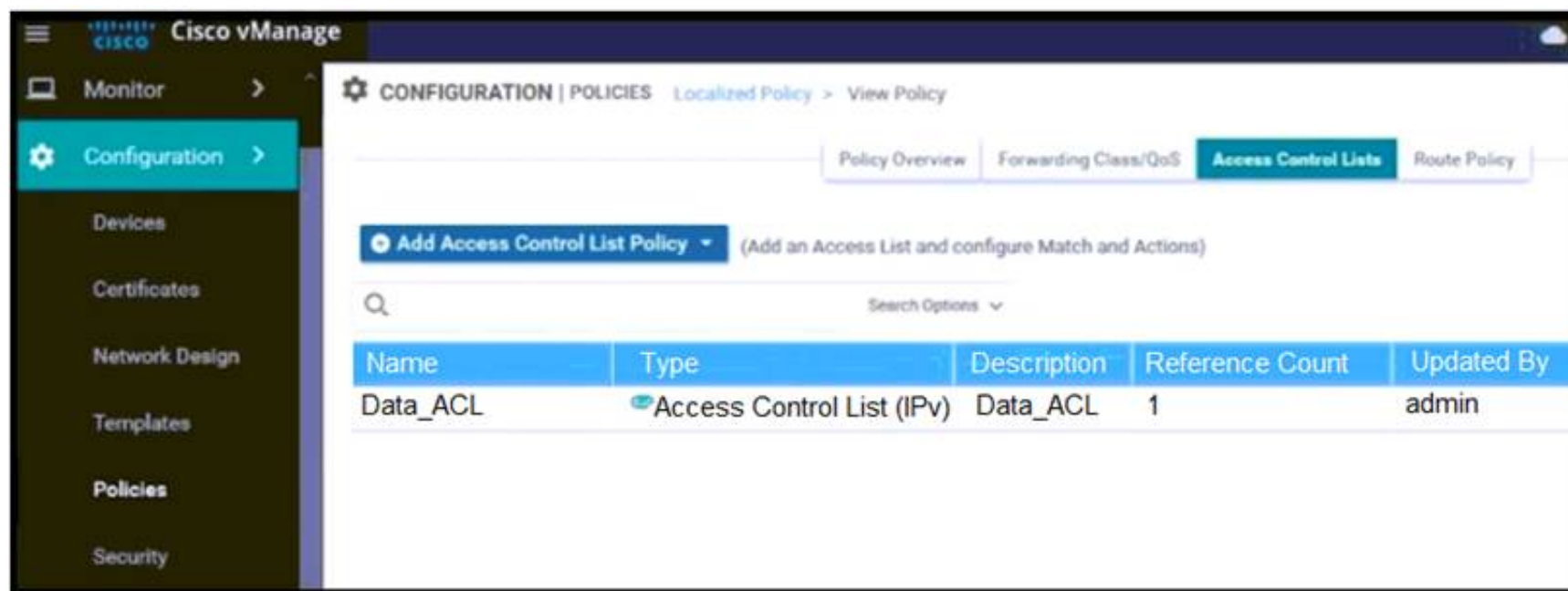
Which queue must an engineer configure for control and BFD traffic for convergence on a WAN Edge router?

- A. queue 0
- B. queue 1
- C. queue 2
- D. queue 7

**Answer: C**

#### NEW QUESTION 180

Refer to the exhibit.



An engineer must block FTP traffic coming in from a particular Service VPN on a WAN Edge device Which set of steps achieves this goal?

- A. Create a localized policy and add it to (he interface feature template
- B. Create a localized policy add it to the device template and add an ACL to the interface feature template
- C. Create a prefix tat, add it to the localized policy and add it to the interface feature template
- D. Create a localized policy add it to VPN template and add an ACL to the interface feature template

**Answer: C**

#### NEW QUESTION 184

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

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

**Answer: C**

#### NEW QUESTION 185

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

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

**Answer: D**

#### NEW QUESTION 186

Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.

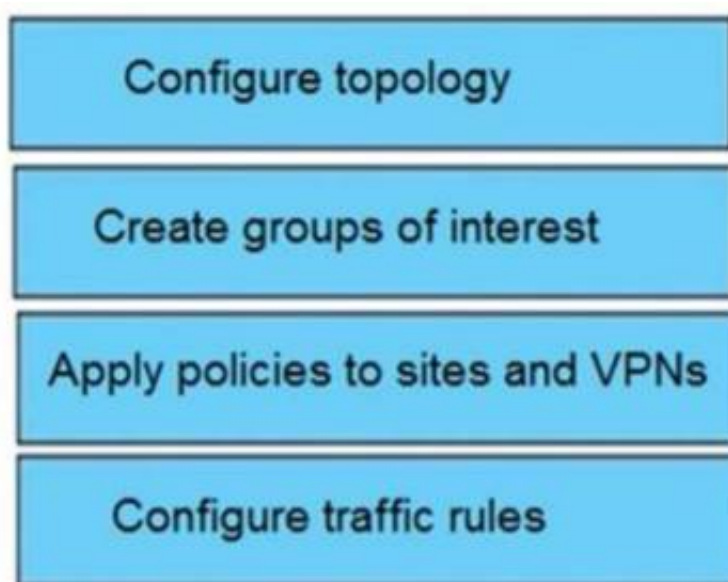


Create groups of interest	Create the network structure to which the policy applies
Configure traffic rules	Create lists that group together related items that an engineer can call in the match or action components of a policy
Configure topology	Associate a policy with sites and VPNs in the overlay network
Apply policies to sites and VPNs	Create the match and action conditions of a policy

- A. Mastered  
B. Not Mastered

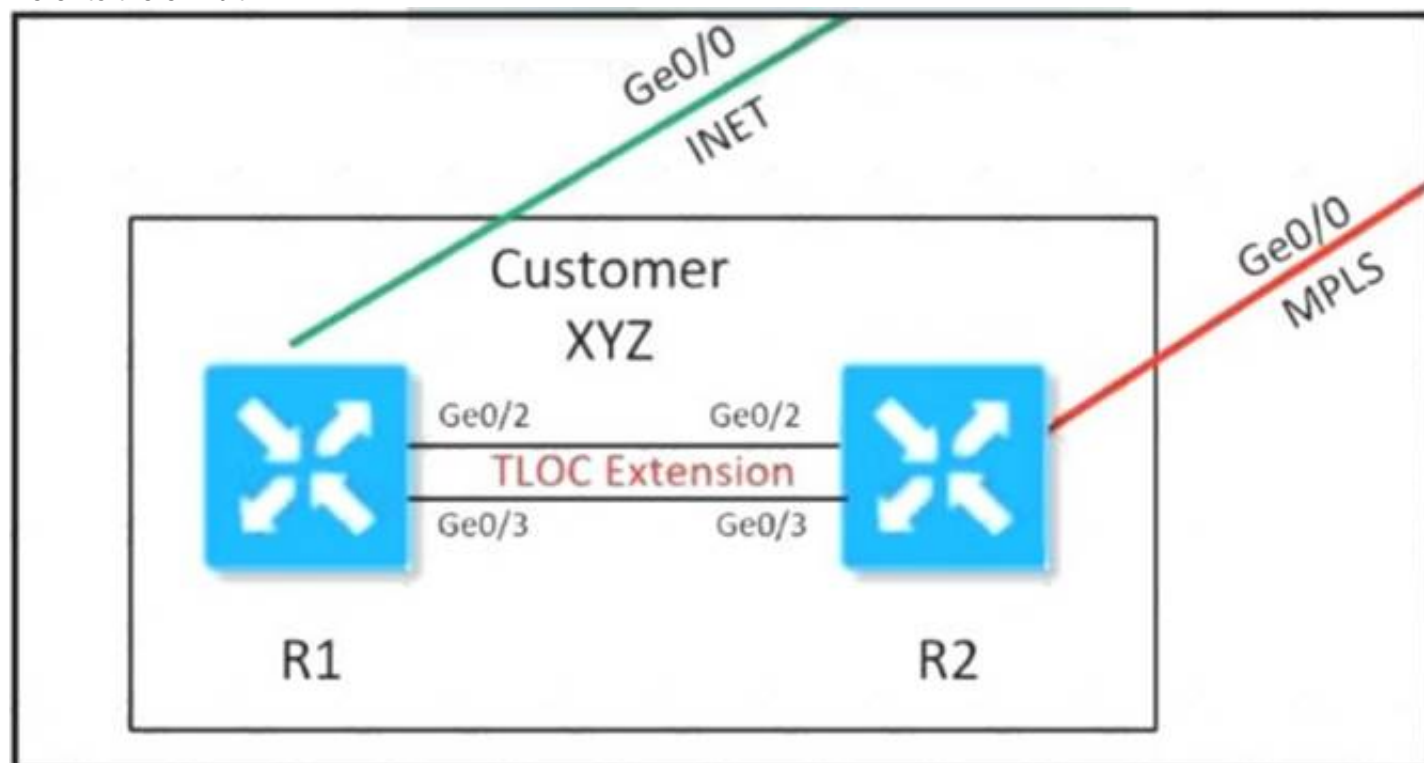
**Answer:** A

**Explanation:**



**NEW QUESTION 189**

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 191

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.

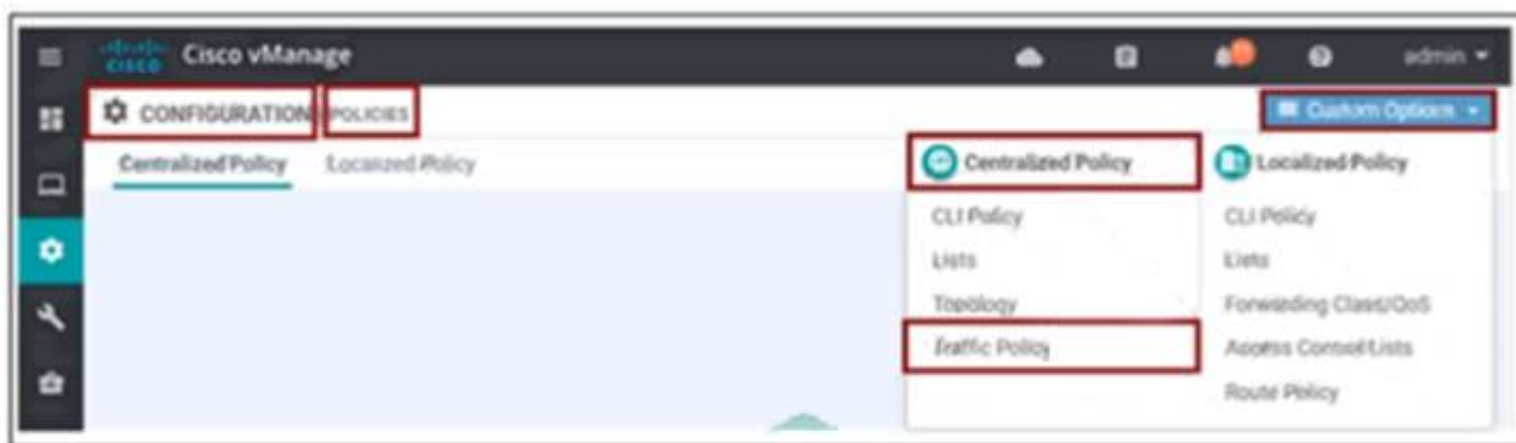
```
policy
  lists
    site-list firewall-sites
      site-id 1
  control-policy firewall-service
    sequence 10
    match route
    site-id 2
    action accept
    set service FW vpn 10
    default-action accept
  apply-policy
    site-list firewall-sites control-policy firewall-service out
```

**NEW QUESTION 192**

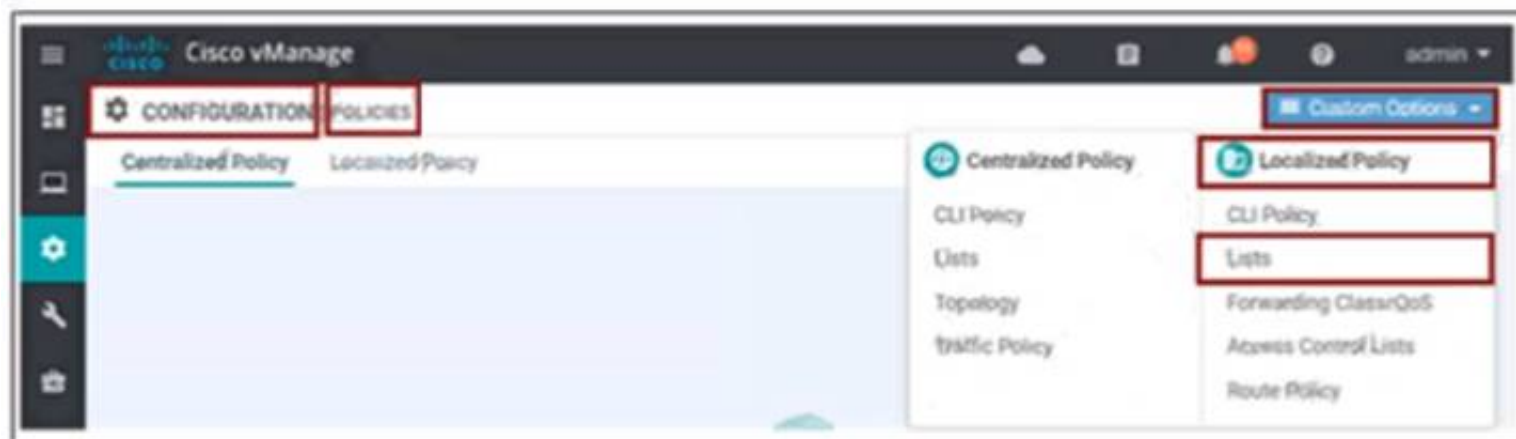
An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

- A)





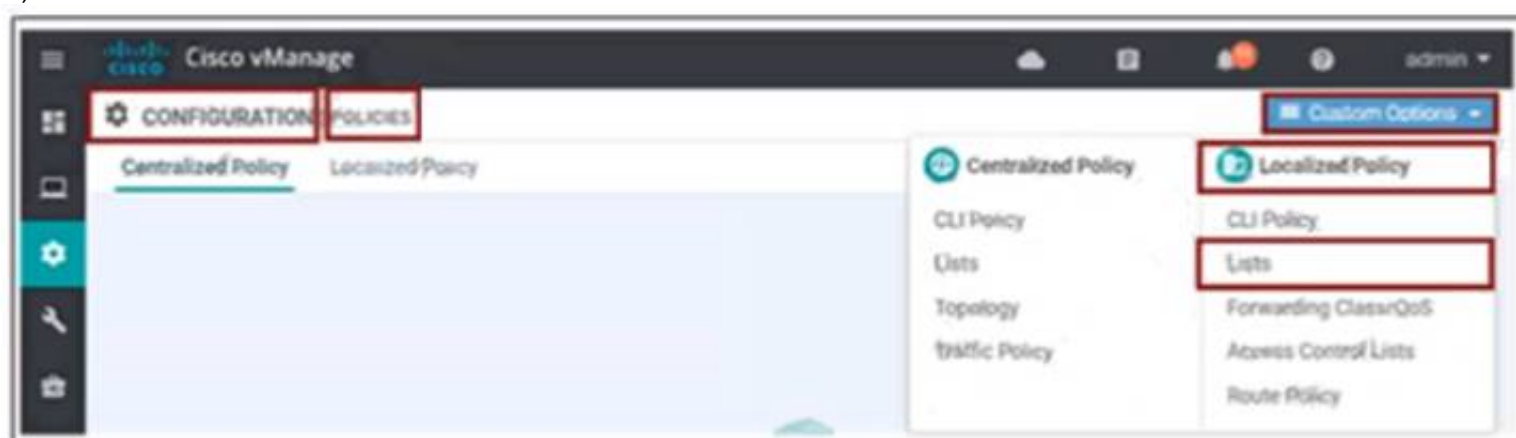
B)



C)



D)



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

**Answer: D**

#### NEW QUESTION 194

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 eth0 interfaces on vManage and vSmart.
- D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

**Answer: B**

#### NEW QUESTION 197

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

**Answer: C**

#### NEW QUESTION 202

Refer to the exhibit.

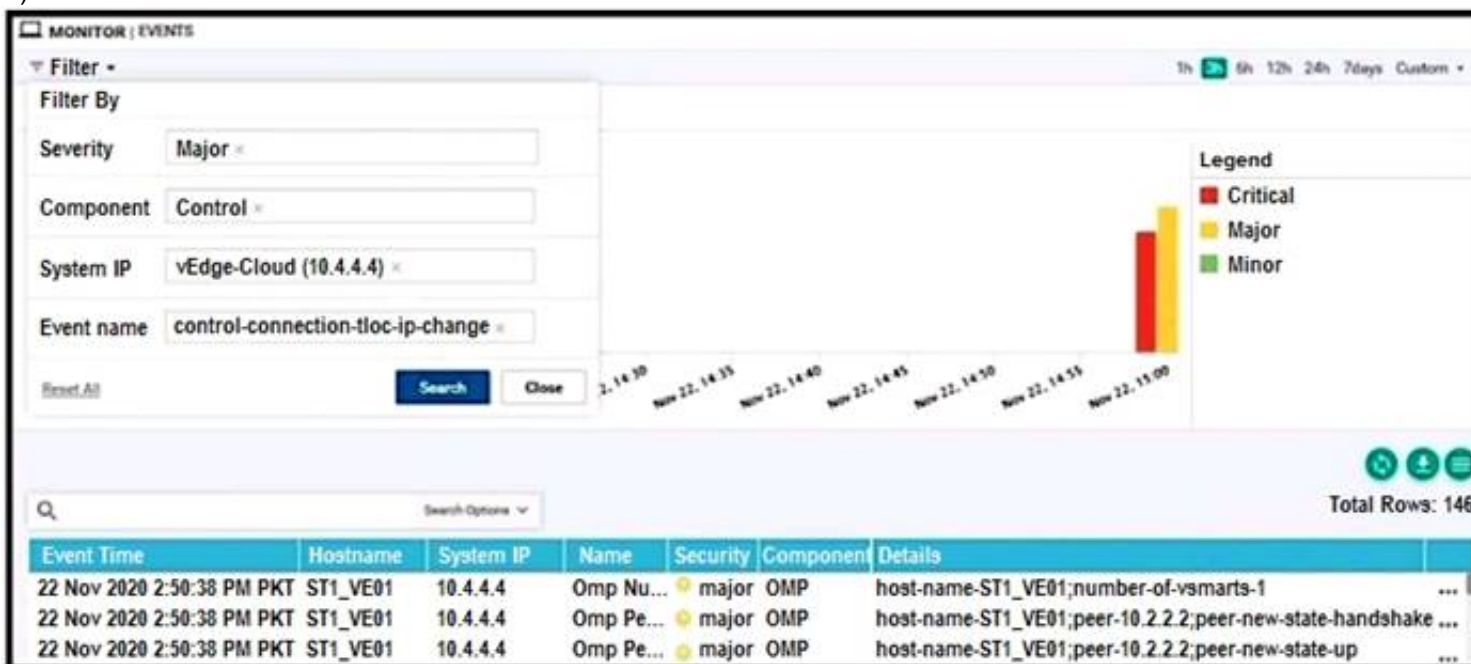
Update Device Template

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?

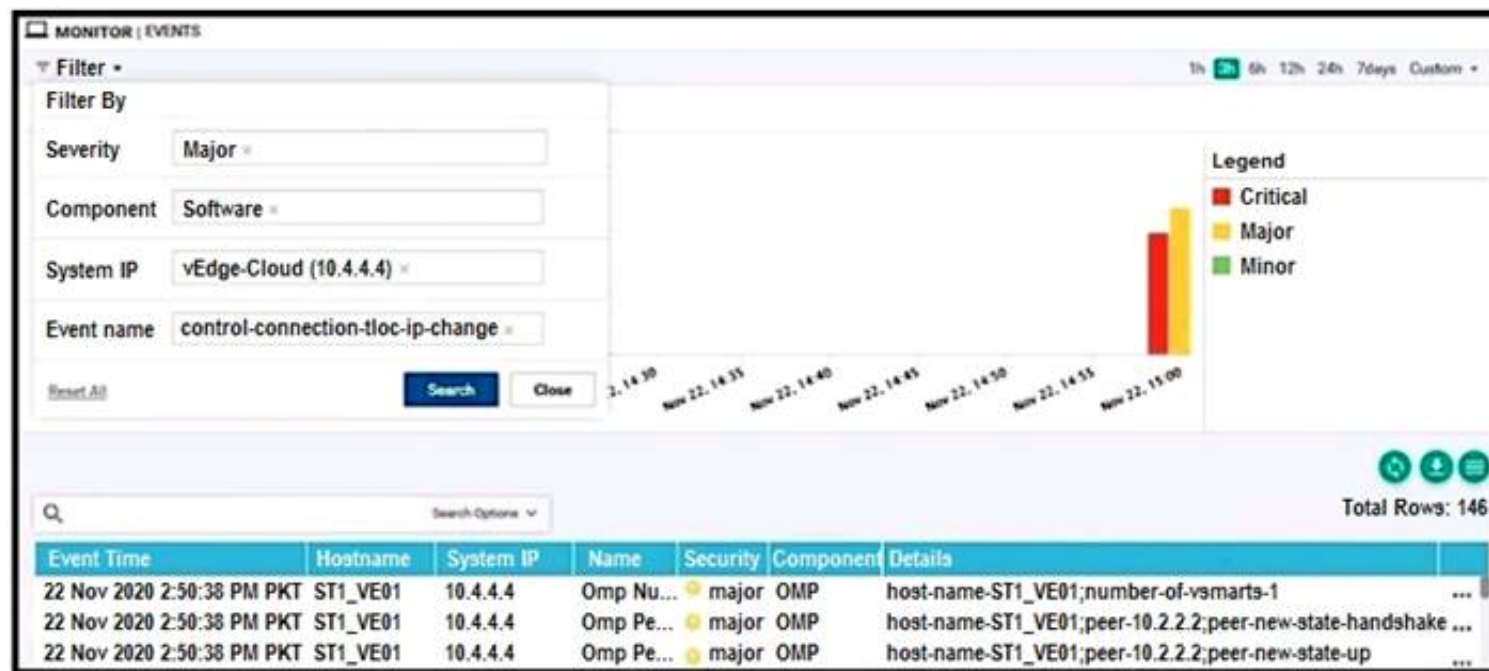
A)



B)



C)



D)



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

Answer: D

#### NEW QUESTION 204

Refer to the exhibit

**Address Family** ☒ On ☐ Off

**Address Family**

**Maximum Number of Prefixes** ☒

**Route Policy In** ☒ On ☒ Off

**Route Policy Out** ☒ On ☐ Off

**Policy Name**

The engineering must assign tags to 3 Of its 74 server networks as soon as they are advertised to peers These server network must not be advertised AS which configuration fulfil the requirement?

A)



```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-advertise
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 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
```

C)

```
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
```

D)

```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-advertise
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 208**

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 213**

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

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 217**

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 vSmart

**Answer:** A

**NEW QUESTION 221**

An enterprise has these three WAN connections:

- > public Internet
- > business internet
- > MPLS

An engineer must configure two available links to route traffic via both links. Which configuration achieves this objective?

- ☐ **omp**  
**no shutdown**  
**route-limit 2**
- ☐ **omp**  
**no shutdown**  
**send-path-limit 2**
- ☐ **omp**  
**no shutdown**  
**overlay-as 2**
- ☐ **omp**  
**no shutdown**  
**ecmp-limit 2**

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

**Answer:** B

**NEW QUESTION 223**

Which scheduling method is configured by default for the eight queues in the cloud vEdge router?

- A. low latency queue
- B. priority queue
- C. weighted random early detection
- D. weighted round robin

**Answer:** D

**NEW QUESTION 225**

How do WAN Edge devices operate when vSmart is inaccessible or fails to be reached by the WAN Edge?

- A. They cease to forward traffic in the data plane.

- B. They continue operation normally.
- C. They continue to receive reachability updates.
- D. They continue operating normally for a configurable time.

**Answer:** D

#### NEW QUESTION 228

Which SD-WAN component detects path performance information in the organization to report the issue to the service provider at site ID:S4288T5E44F04?

- A. vAnalytics
- B. vManage NMS
- C. vBond Orchestrator
- D. Cisco DNA

**Answer:** B

#### NEW QUESTION 233

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 237

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 242

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

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

**Answer:** A

#### NEW QUESTION 246

A WAN Edge device has several service VPNs with no routing protocol configured in the service VPNs The device must be configured so that all connected routes are visible in OMP for VPN 10 Which configuration meets the requirement?

A)

```
vpn 10
 name "---- Service VPN 10 ----"
 omp
 redistribute connected
```

B)

```
omp
no shutdown
graceful-restart
advertise connected
```

C)

```
omp
no shutdown
graceful-restart
redistribute connected
```

D)

```
vpn 10
name "Service VPN 10"
omp
advertise connected
```

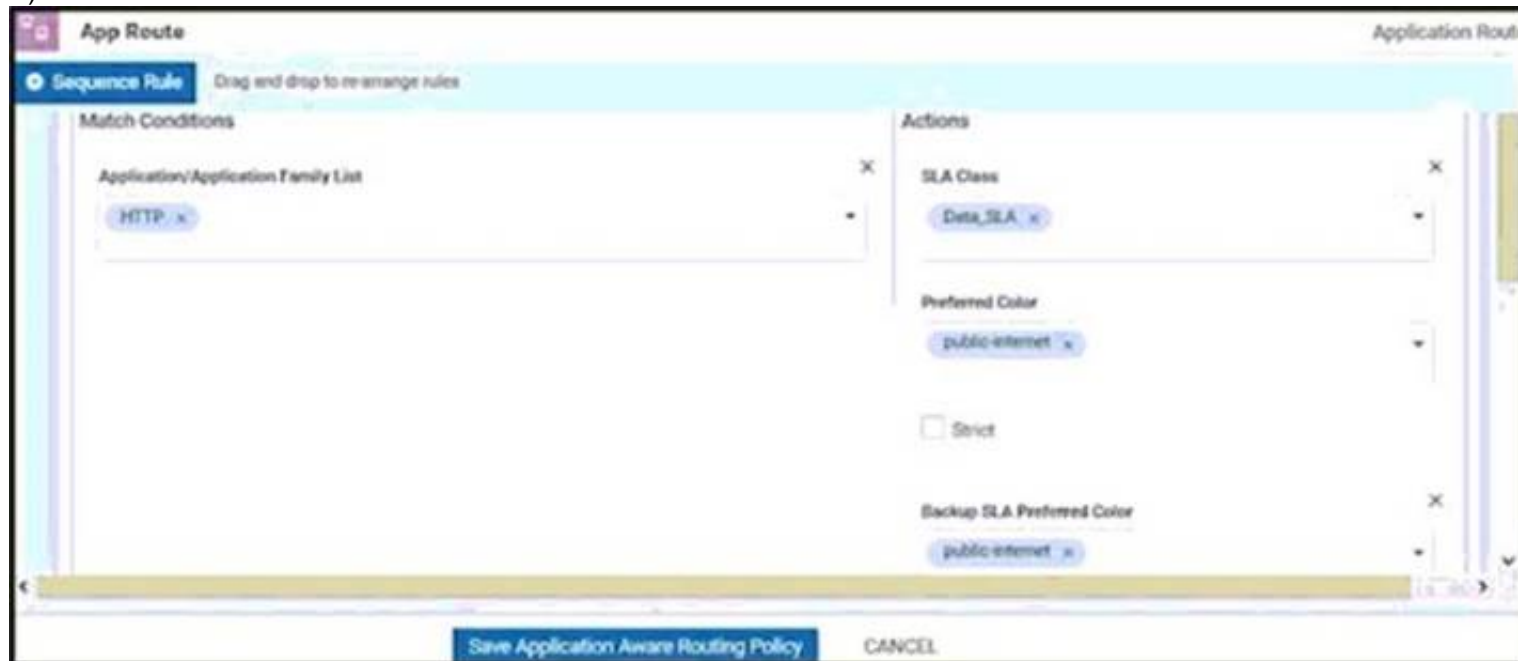
- A. Option A
- B. Option B
- C. Option B
- D. Option C

**Answer: D**

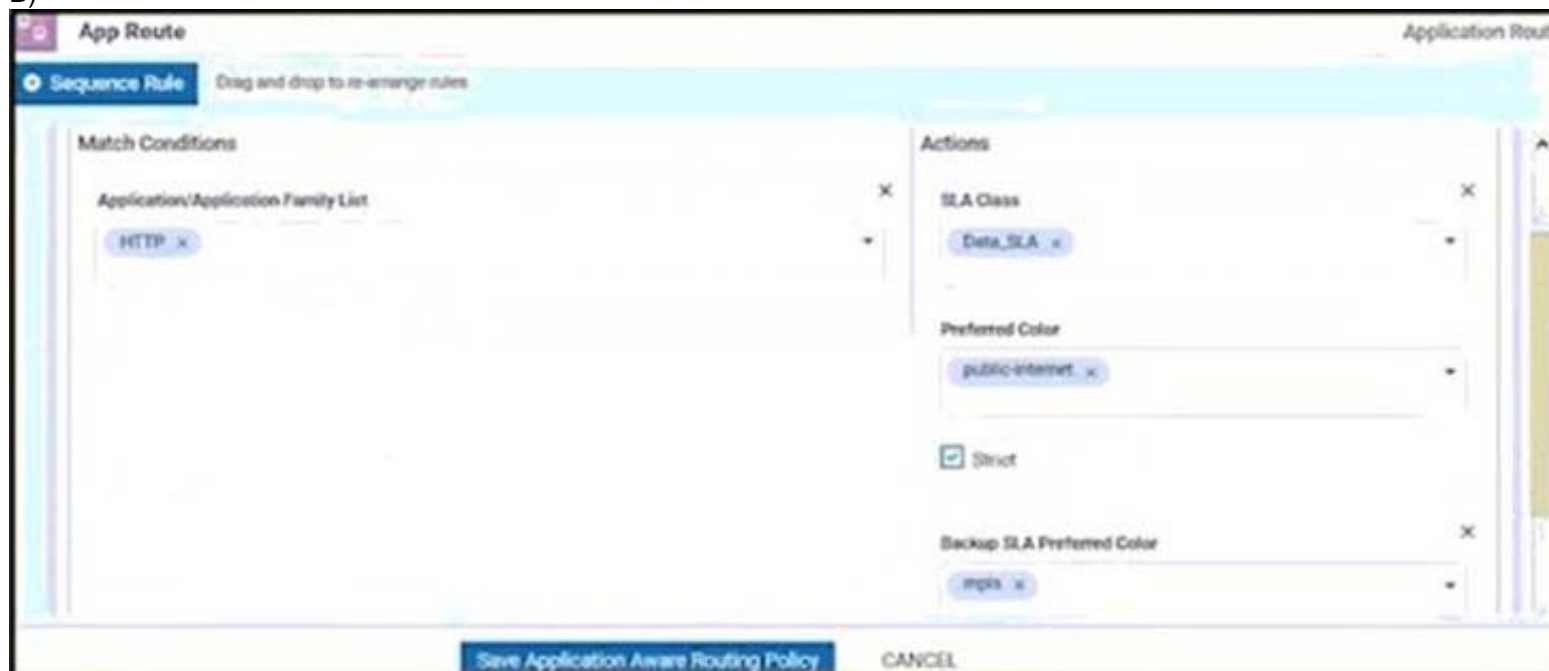
#### NEW QUESTION 249

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

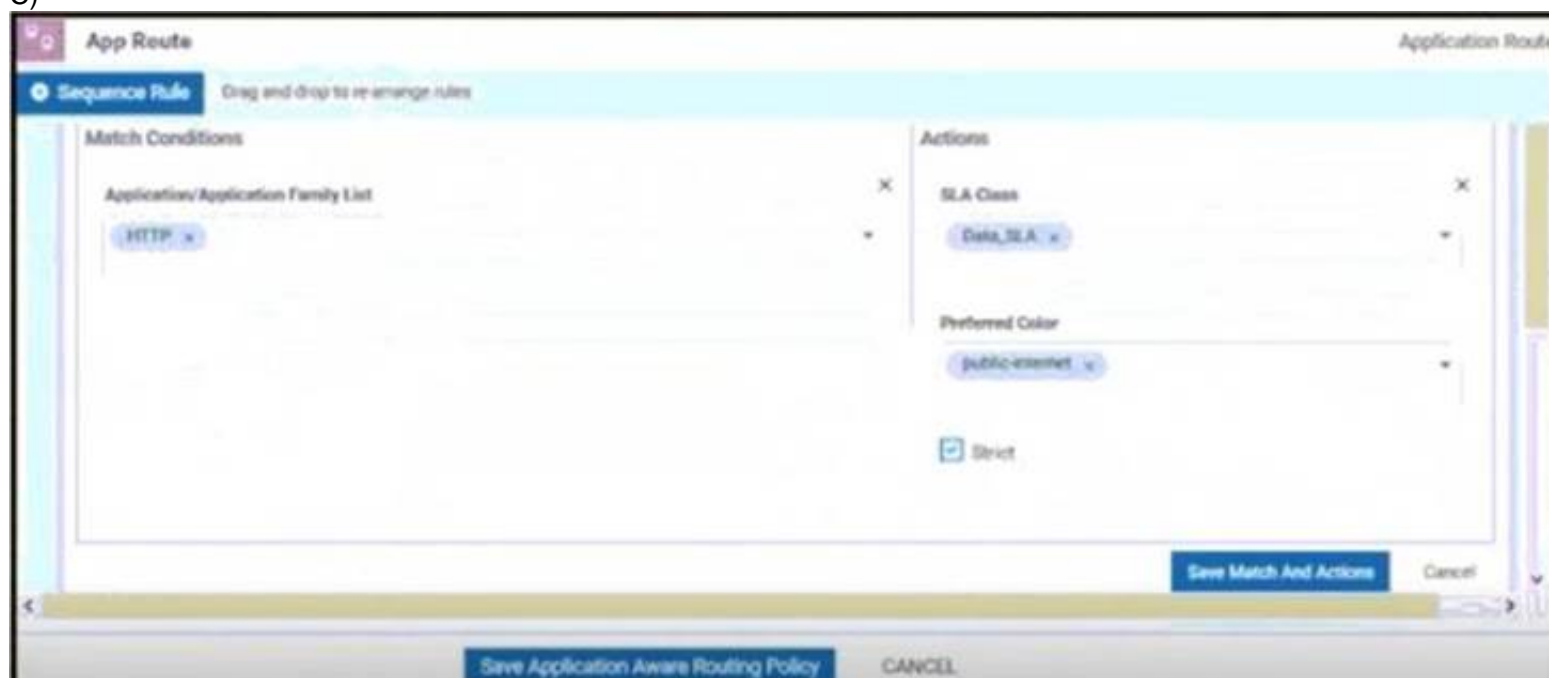
A)



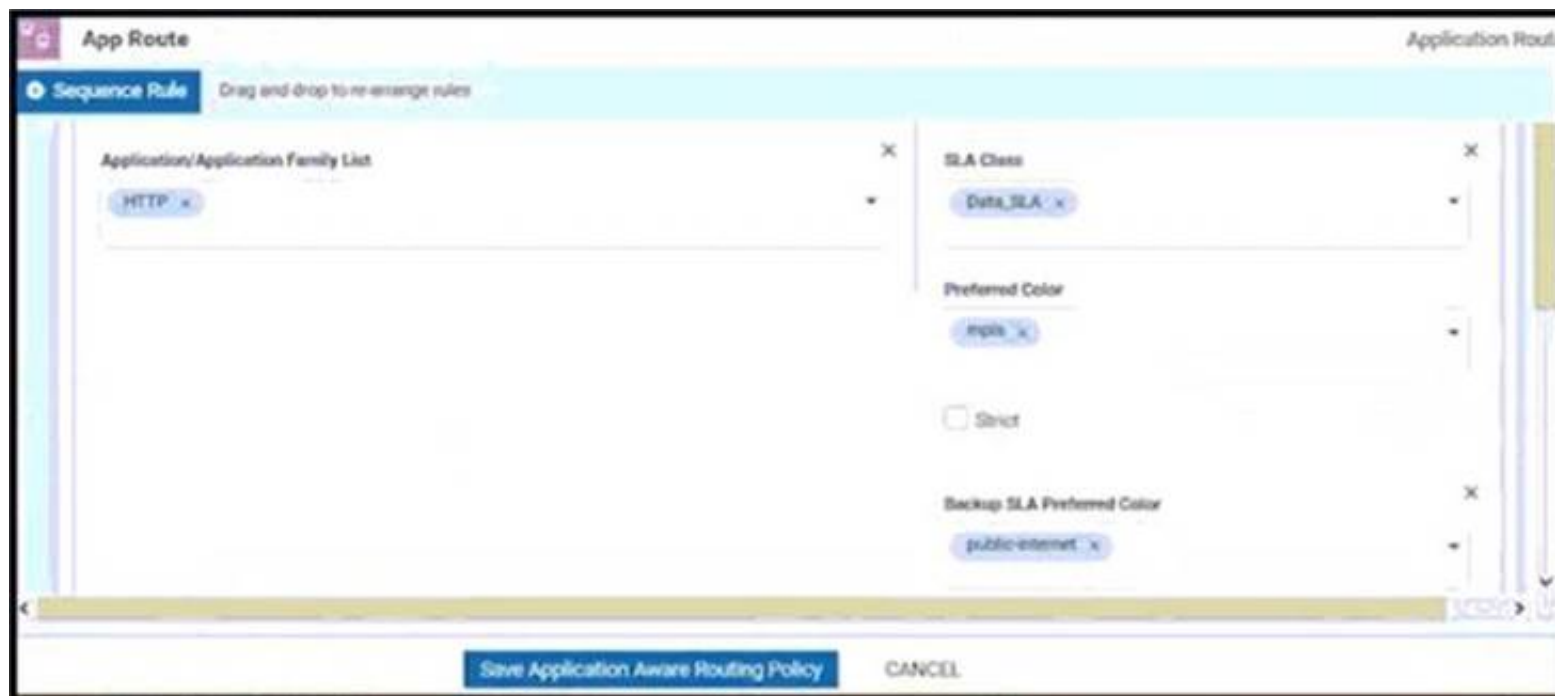
B)



C)



D)



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

**Answer: C**

#### NEW QUESTION 254

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.

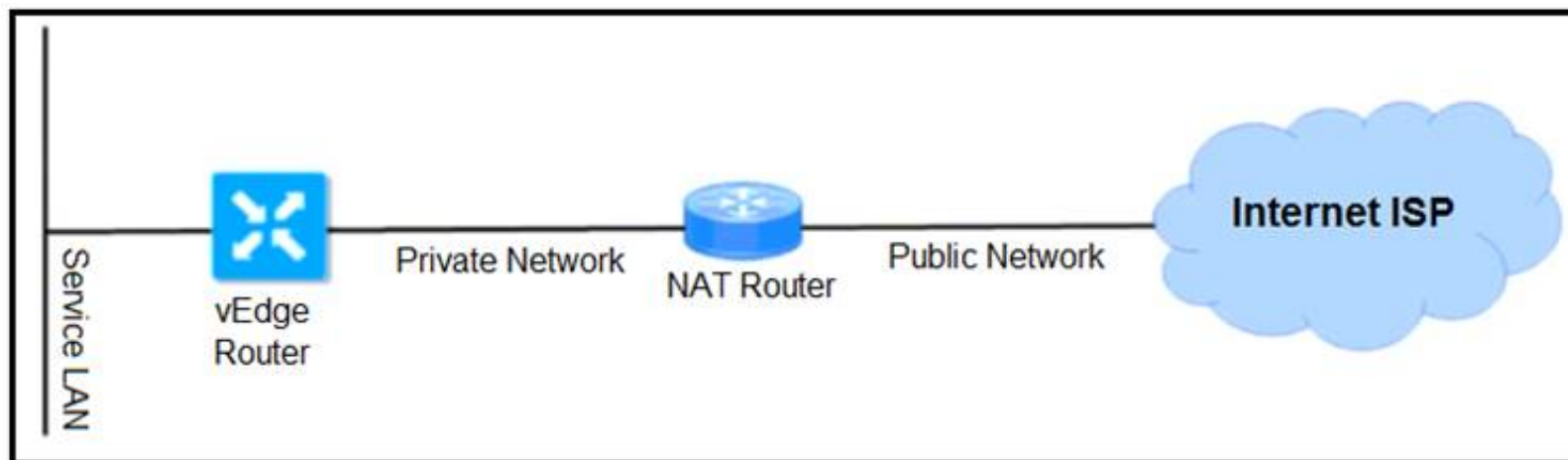
Service Chaining

Traffic Flow Monitoring with Cflow

#### NEW QUESTION 258

Refer to the exhibit





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

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

**Answer:** A

#### NEW QUESTION 262

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

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

**Answer:** BE

#### Explanation:

[https://sdwan-docs.cisco.com/Product\\_Documentation/Software\\_Features/Release\\_18.4/Security/01Security\\_Ov](https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/01Security_Ov)

#### NEW QUESTION 267

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 272

An engineer must configure a centralized policy on a site in which all HTTP traffic should use the Public Internet circuit if the loss on this circuit is below 10%. otherwise MPLS should be used Which configuration wizard fulfils this requirement?

- A. Create Applications or Groups of Interest > Configure Traffic Rules > Apply Policies to Sites and VPNs
- B. Configure VPN Membership > Apply Policies to Sites and VPNs
- C. Create Applications or Groups of interest > Configure Traffic Data > Apply Policies to Sites and VPNs
- D. Configure Topology > Apply Policies to Sites and VPNs

**Answer:** A

#### NEW QUESTION 276

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

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

**Answer:** A

#### Explanation:

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

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

#### NEW QUESTION 280

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 284**

A customer wants to use AWS for Cisco SD-WAN IaaS services by deploying virtual SD-WAN routers in a transit AWS VPC. The transit VPC then connects via site-to-site IPsec tunnels to an AWS transit gateway. Which transit VPC connects via site-to-site IPsec tunnels to an AWS transit gateway?

- A. Cisco Cloud onRamp for Multicloud
- B. Cisco Cloud onRamp for SaaS
- C. Cisco Cloud onRamp for Colocation
- D. Cisco Cloud onRamp for IaaS

**Answer:** D

**NEW QUESTION 289**

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 290**

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

vSmart	establishes a secured data plane
vManage	first point of authentication
vEdge	single pane of glass
vBond	enforces control policies

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

vEdge
vBond
vManage
vSmart

**NEW QUESTION 294**

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

- 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

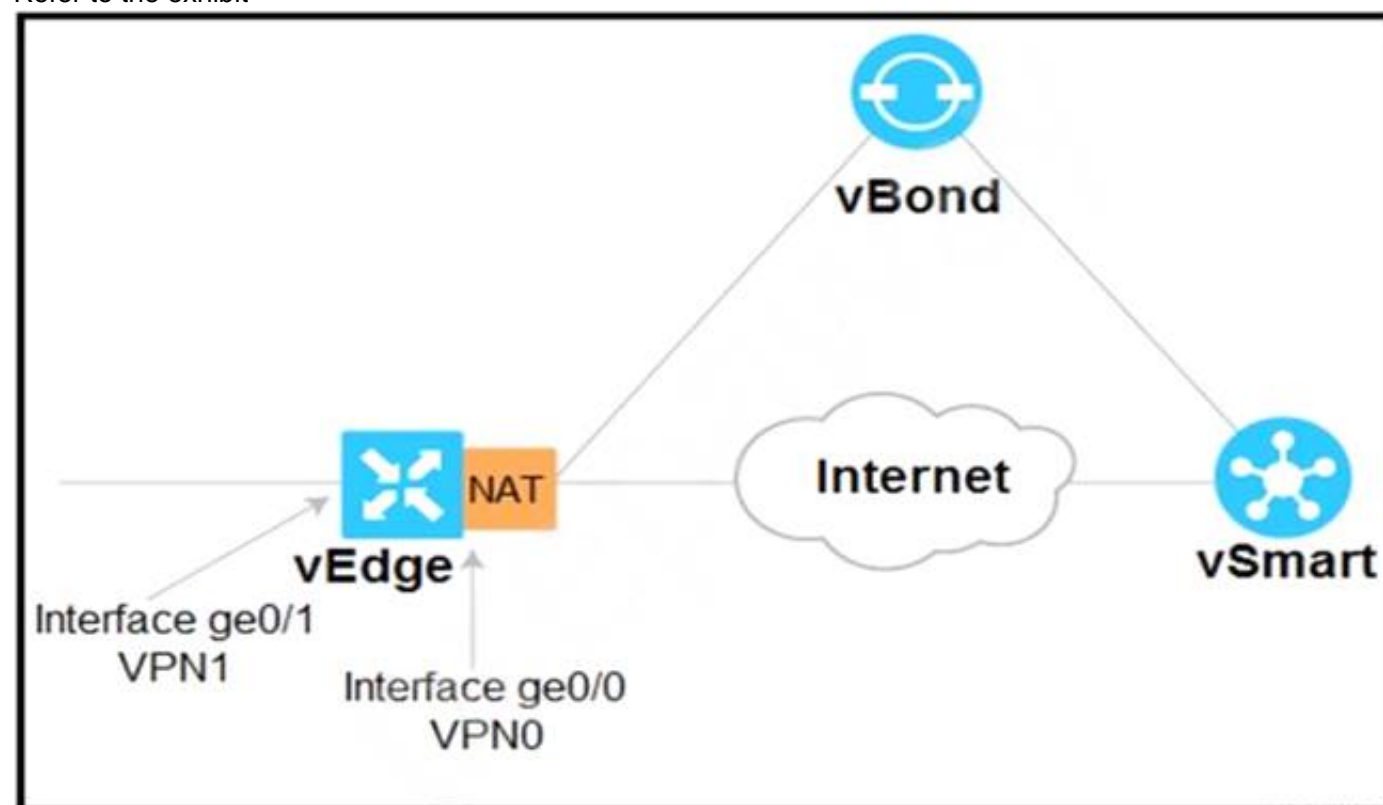
**Explanation:**

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 299**

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 300**

.....



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