

➤ **Vendor: Cisco**

➤ **Exam Code: 300-415**

➤ **Exam Name: Implementing Cisco SD-WAN Solutions (ENSDWI)**

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**QUESTION 155**

To configure file analysis for Advanced Malware Protection, which tasks are valid? (Choose three.)

- A. Configure Threat Grid API key.
- B. Configure file types list.
- C. Enable file analysis.
- D. Enable HTTPS inbound to the WAN Edge router.
- E. Configure a security rule for Threat Grid.

**Answer: ABC**

**QUESTION 156**

How many packets are in a single FEC block?

- A. One data packet, one parity packet
- B. One data packet, four parity packets
- C. Two data packets, one parity packet
- D. Four data packets, one parity packet
- E. The value is configurable in the policy.

**Answer: D**

**QUESTION 157**

How does the Cisco SD-WAN architecture differ from traditional WAN technologies? (Choose three.)

- A. Single pane of glass
- B. Increased scale with centralized control plane
- C. Reduced uptime in branch locations
- D. Topology dependence
- E. Distributed architecture

**Answer: ABE**

**QUESTION 158**

Cisco Cloud onRamp for Colocation supports which two types of service insertion?

- A. Control policy

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- B. Local policy
- C. Data policy
- D. CLI policy
- E. OMP policy

**Answer:** AC

**QUESTION 159**

What is an attribute of TLOC?

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

**Answer:** A

**QUESTION 160**

What is the behavior of vBond orchestrator?

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

**Answer:**

**Explanation:**

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

**QUESTION 161**

Which routing protocol is used to exchange control plane information between vSmart controllers and WAN Edge routers in the Cisco SD-WAN secure extensible network?

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

**Answer:** D

**Explanation:**

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

**QUESTION 162**

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

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

**Answer:** A

**Explanation:**

<https://www.lookingpoint.com/blog/cisco-sd-wan-omp>

### QUESTION 163

Which set of elements are verified by the controller to confirm the identity of edge devices?

- A. certificates, organization name, and serial number of the device
- B. organization name, serial number, and system IP of the device
- C. certificates, organization name, and vBond domain
- D. certificates, system IP, and vBond domain

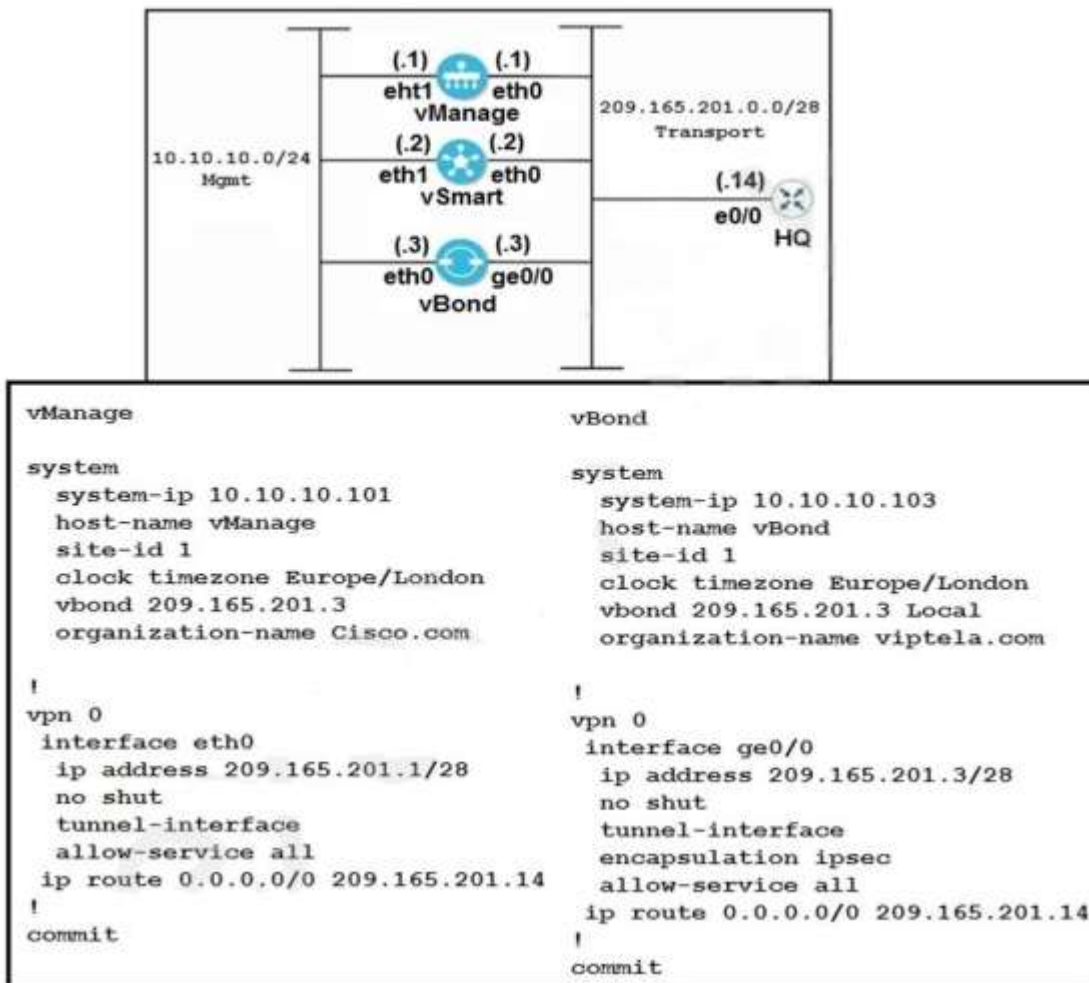
**Answer: D**

**Explanation:**

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

### QUESTION 164

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



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

**Answer: A**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gs-book/cisco-sd-wan-overlay-network->

bringup.html

**QUESTION 165**

Refer to the exhibit. An engineer is getting a **CTORGNMMIS** error on a controller connection. Which action resolves this issue?

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

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

**Answer: B**

**Explanation:**

<https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-control-connections/ta-p/3813237>

**QUESTION 166**

Refer to the exhibit. 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?

MONITOR   AUDIT LOG								
Filter - Module: vManage Root CA				1h 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 uuid list file on vBond-d3aa12f	vmanage-roo	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Transferred root ca uuid list file to vBond-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-5478ad3f-04	vmanage-roo	vmanage-root-ca	10.2.2.2	5478ad3f-04e0-4d0f-b654	...
18 Dec 2020	system	10.1.1.1	Transferred root cert chain file to vSmart-5478ad	vmanage-roo	vmanage-root-ca	10.2.2.2	5478ad3f-04e0-4d0f-b654	...
18 Dec 2020	system	10.1.1.1	Uploaded root uuid list file on vBond-d3aa12f	vmanage-roo	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Installed root cert chain on vManage-6842d5cf	vmanage-roo	vmanage-root-ca	10.1.1.1	6842d5cf-ce74-41a0-9ff5-1	...
18 Dec 2020	system	10.1.1.1	Transferred root ca uuid list file to vBond-d3aa12	vmanage-roo	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a	...
18 Dec 2020	system	10.1.1.1	Transferred root cert chain file to vManage-6842	vmanage-roo	vmanage-root-ca	10.1.1.1	6842d5cf-ce74-41a0-9ff5-1	...

```
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.

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

```
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
- C.
- 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)
- 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)

**Answer: B**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/cisco-sdwan-controller-cert-deploy-guide.html>

**QUESTION 167**

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

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

**Answer: A**

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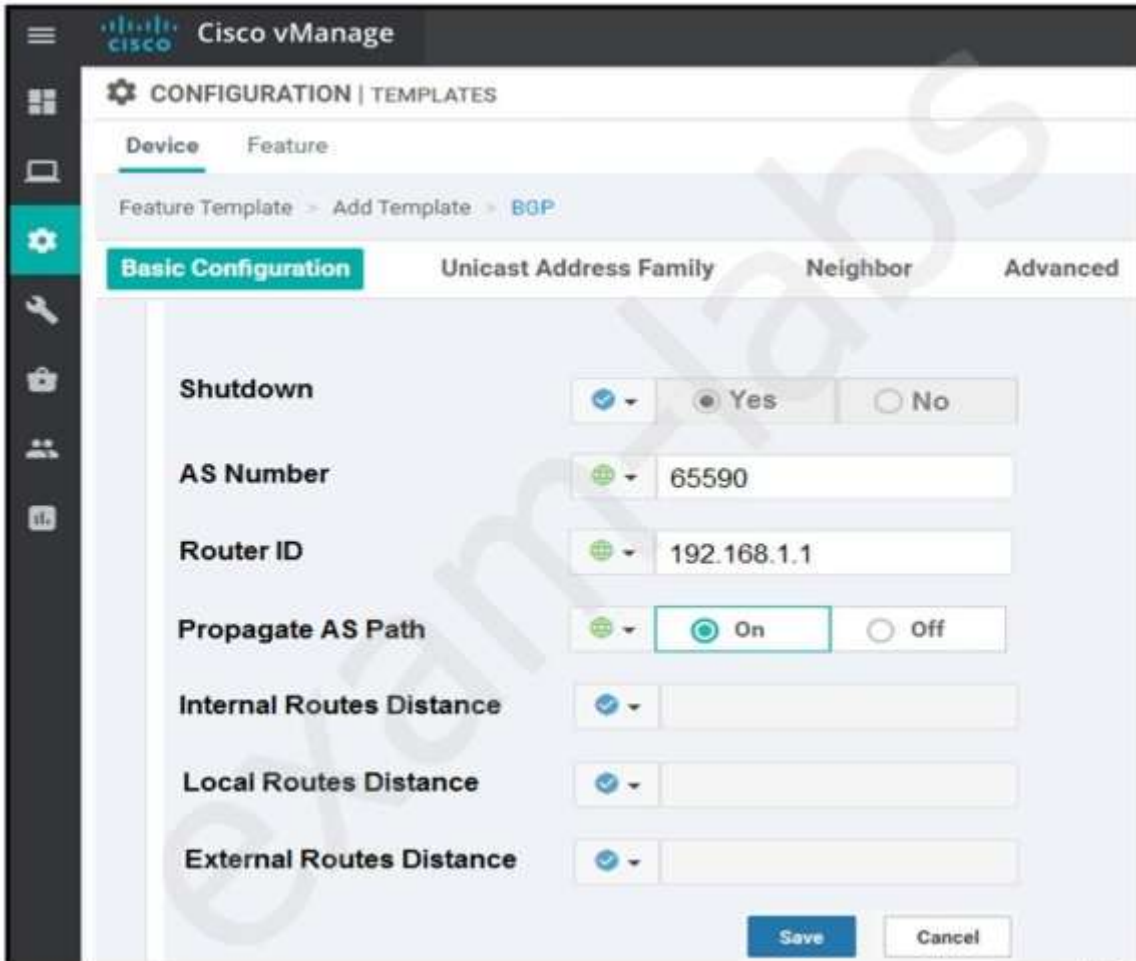
<https://www.braindump2go.com/300-415.html>

**Explanation:**

<https://www.nerone.com/articles/cisco-sdwan-viptela-everything-you-wanted-to-know-about-certificates-deployment-but-were-afraid-to-ask>

**QUESTION 168**

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



The image shows the Cisco vManage configuration page for BGP. The page is titled "CONFIGURATION | TEMPLATES" and has tabs for "Device" and "Feature". The "Feature" tab is selected, and the "BGP" feature is highlighted. The "Basic Configuration" tab is active, showing fields for "Shutdown", "AS Number", "Router ID", "Propagate AS Path", "Internal Routes Distance", "Local Routes Distance", and "External Routes Distance". The "Internal Routes Distance" field is currently empty, and the "Local Routes Distance" field is set to 20. The "External Routes Distance" field is also empty. The "Save" button is at the bottom right.

- A. Configure Internal Routes Distance to 10.
- B. Configure Propagate AS Path to **off**.
- C. Configure Local Routes Distance to 20.
- D. Configure External Routes Distance to 20.

**Answer: C****Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/routing/vEdge-20-x/routing-book/m-unicast-routing.html>

**QUESTION 169**

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

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

PIM-RP as specified in the original PIM join message.

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

**Answer: A**

**Explanation:**

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

#### **QUESTION 170**

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 fulfills this requirement?

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

**Answer: C**

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html#id\\_107211](https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html#id_107211)

#### **QUESTION 171**

An engineer must use data prefixes to configure centralized data policies using the vManage policy configuration wizard. What is the first step to accomplish this task?

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

**Answer: D**

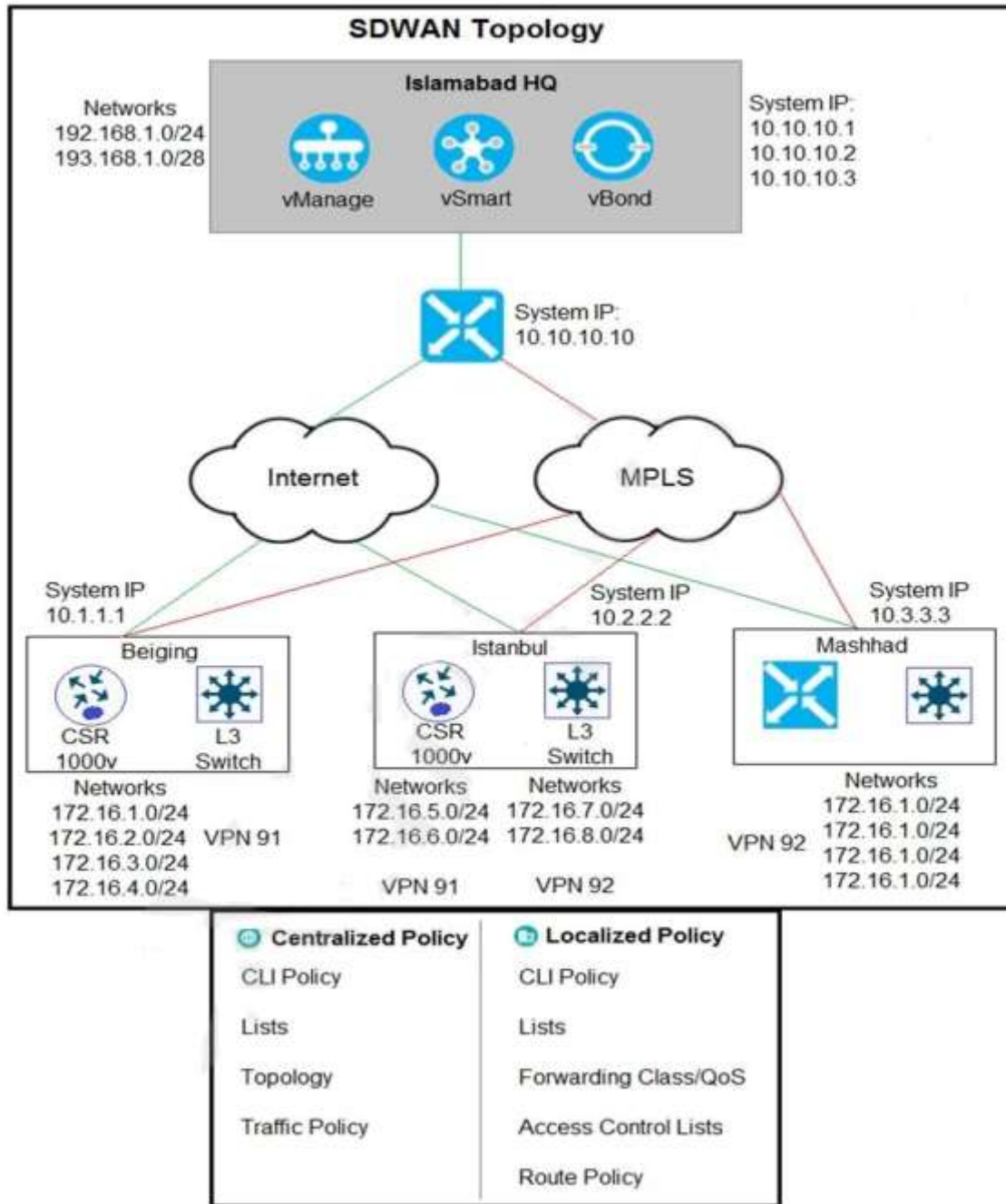
**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html#id\\_107211](https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html#id_107211)

#### **QUESTION 172**

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

**Answer: B**

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/ios-xe-17/policies-book-xe/centralized-policy.html#Cisco\\_Concept.dita\\_d31f22cb-f54f-41df-966a-0ae1ca3c398a](https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/ios-xe-17/policies-book-xe/centralized-policy.html#Cisco_Concept.dita_d31f22cb-f54f-41df-966a-0ae1ca3c398a)

**QUESTION 173**

Refer to the exhibit. Which command allows traffic through the IPsec tunnel configured in VPN 0?

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<https://www.braindump2go.com/300-415.html>

```
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
```

- A. **service netsvc1 vpn1**
- B. **service netsvc1 address 1.1.1.1**
- C. **service FW address 1.1.1.1**
- D. **service local**

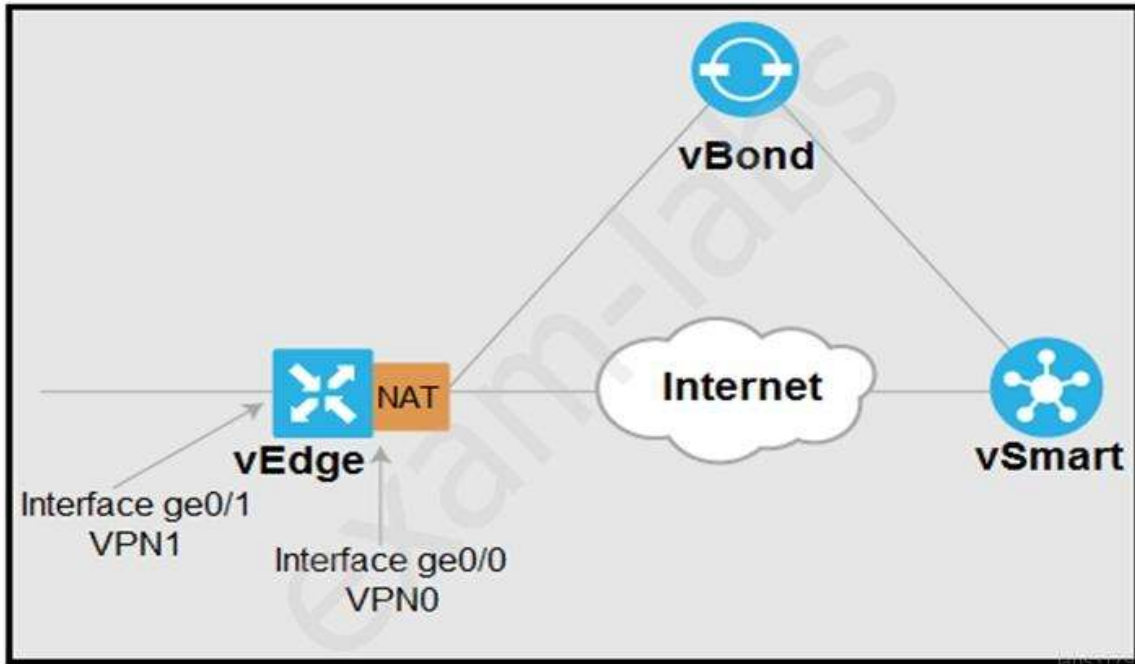
**Answer:** A

**Explanation:**

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

#### **QUESTION 174**

Refer to the exhibit. Which configuration sets up direct Internet access for VPN 1?



- A. **vpn 1**  
no shutdown  
...  
**vpn 0**  
...  
ip route 0.0.0.0 vpn 1
- B. **vpn 0**  
.....  
interface ge0/0  
nat  
!  
no shutdown  
...  
**vpn 1**  
...  
ip route 0.0.0.0/0 vpn 0

C. vpn 1

```
.....  
interface ge0/1  
...  
nat  
!  
no shutdown
```

```
...  
vpn 0  
...  
ip route 0.0.0.0/0 vpn 1
```

D. vpn 0

```
.....  
interface ge0/1  
...  
ip nat  
!  
no shutdown
```

```
...  
vpn 1  
...  
ip route 0.0.0.0/0 vpn 0
```

**Answer:** C

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/vEdge-as-NAT-device.html>

#### **QUESTION 175**

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?

- A. 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
- B. policy  
control-policy Route\_Leaking  
sequence 1  
match route  
VPN\_50 VPN\_73  
prefix-list\_AnyIpv4PrefixList  
action accept  
export-to VPN\_73 VPN\_50
- C. policy  
control-policy Route\_Leaking  
sequence 1  
match route  
VPN\_ALL  
prefix-list\_AnyIpv4PrefixList  
action accept  
export-to VPN\_ALL



D. **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**

**Answer: A**

**Explanation:**

<https://www.ciscolive.com/c/dam/r/ciscolive/latam/docs/2018/pdf/BRKCRS-2186.pdf>

#### **QUESTION 176**

The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location:405608122. Which command must be configured on these devices?

- A. **mls qos**
- B. **cloud-qos**
- C. **service qos**
- D. **cloud-mls qos**

**Answer: B**

**Explanation:**

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/SD-WAN-End-to-End-Deployment-Guide.pdf> page 153.