

## Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

<https://www.2passeasy.com/dumps/300-415/>



**NEW QUESTION 1**

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 2**

Drag and drop the route verification output from show omp tlocs from the left onto the correct explanations on the right.

shows if the route was chosen to enter the routing table or not	system ID
ENCAPSULATION	attribute of WAN link
COLOR	type of tunnel being used
TLOC IP	TLOC route status

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

shows if the route was chosen to enter the routing table or not	TLOC IP
ENCAPSULATION	COLOR
COLOR	ENCAPSULATION
TLOC IP	shows if the route was chosen to enter the routing table or not

**NEW QUESTION 3**

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

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

**Answer: B**

**Explanation:**

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

**NEW QUESTION 4**

Which two features does the application firewall provide? (Choose two.)

- A. classification of 1400+ layer 7 applications
- B. blocks traffic by application or application-family

- C. numbered sequences of match-action pairs
- D. classification of 1000+ layer 4 applications
- E. application match parameters

**Answer:** AB

**Explanation:**

This application aware firewall feature provides the following benefits:

- Application visibility and granular control
- Classification of 1400+ layer 7 applications
- Allows or blocks traffic by application, category, application-family or application-group

#### NEW QUESTION 5

Where on vManage does an engineer find the details of control node failure?

- A. Alarms
- B. Events
- C. Audit log
- D. Network

**Answer:** A

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/routers/sdwan/vManage\\_How-Tos/vmanage-howto-book/m-troubleshoot](https://www.cisco.com/c/en/us/td/docs/routers/sdwan/vManage_How-Tos/vmanage-howto-book/m-troubleshoot)

#### NEW QUESTION 6

What is a description of vManage NMS?

- A. It is accessible only from VPN 512 (the management VPN).
- B. A cluster requires device templates to be created on and attached to the same server
- C. It is a software process on a dedicated WAN Edge router in the network.
- D. A cluster consists of a minimum of two vManage NMSs

**Answer:** B

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/optimization-ha/vedge/network-optimizatio>

#### NEW QUESTION 7

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

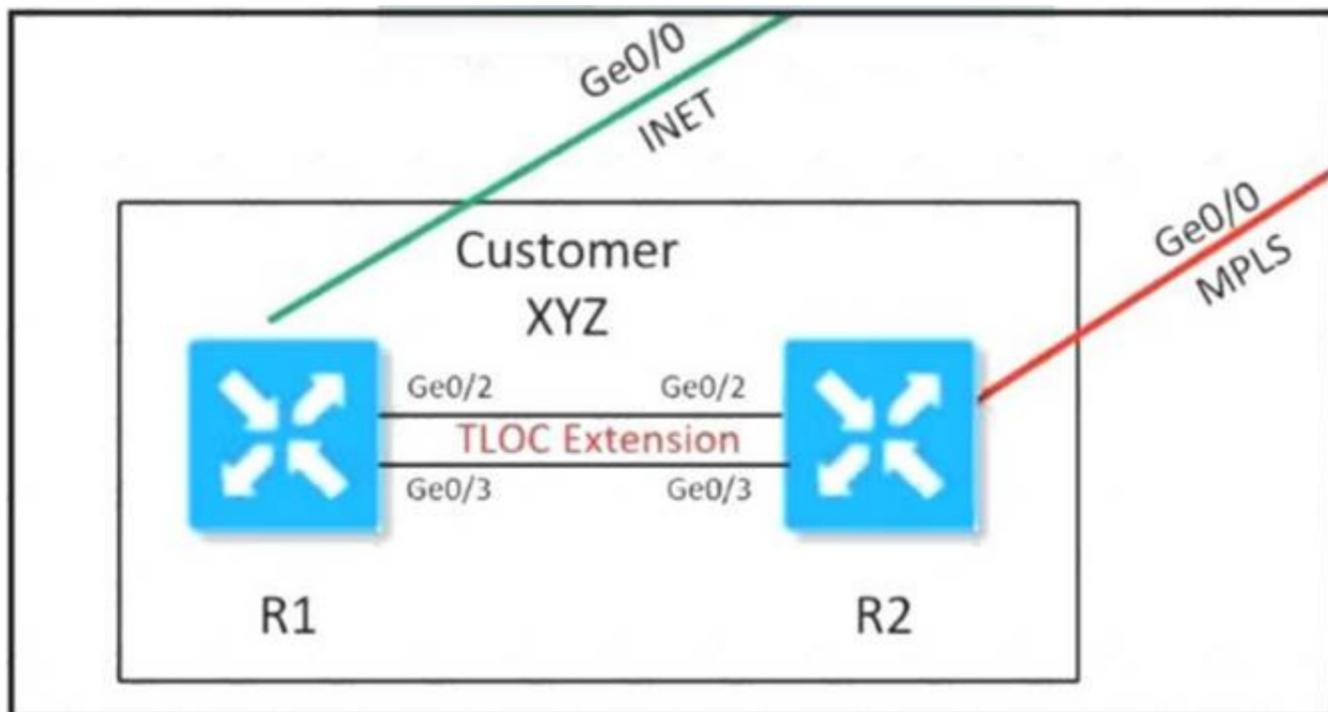
**Answer:** D

**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 8

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 9**

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 10**

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 10**

Drag and drop the components from the left onto the corresponding Cisco NFV infrastructure Building Blocks on the right. Not all options are used.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

## Cisco NFV Infrastructure Building Blocks

- **Compute:** Cisco Unified Computing System™ (Cisco UCS®) for a carrier class and reliable compute infrastructure.
- **Storage:** Cisco UCS hardware and CEPH provide reliable storage. The user has the options to introduce additional storage as capacity needs grow.
- **Networking:** Cisco Nexus® 9000 series hardware provides high throughput, low latency, and rich feature sets.
- **Virtualized Infrastructure:** Fully integrated Red Hat Enterprise Linux and Red Hat OpenStack Platform runs on top of Cisco Unified Computing System™ (Cisco UCS®). It is open source yet hardened and mature.
- **Management:** Cisco UCS Director functions as a unified management tool across multiple virtual environments. SDN controller is optional.

### NEW QUESTION 13

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 17

Which VPN connects the transport-side WAN Edge interface to the underlay/WAN network?

- A. VPN 1
- B. VPN 511
- C. VPN 0
- D. VPN 512

**Answer: C**

#### Explanation:

transport network and the transport network itself. The network ports that connect to the underlay network are part of VPN 0, the transport VPN. Getting connectivity to the Service Provider gateway in the transport network usually involves configuring a static default gateway (most

**NEW QUESTION 19**

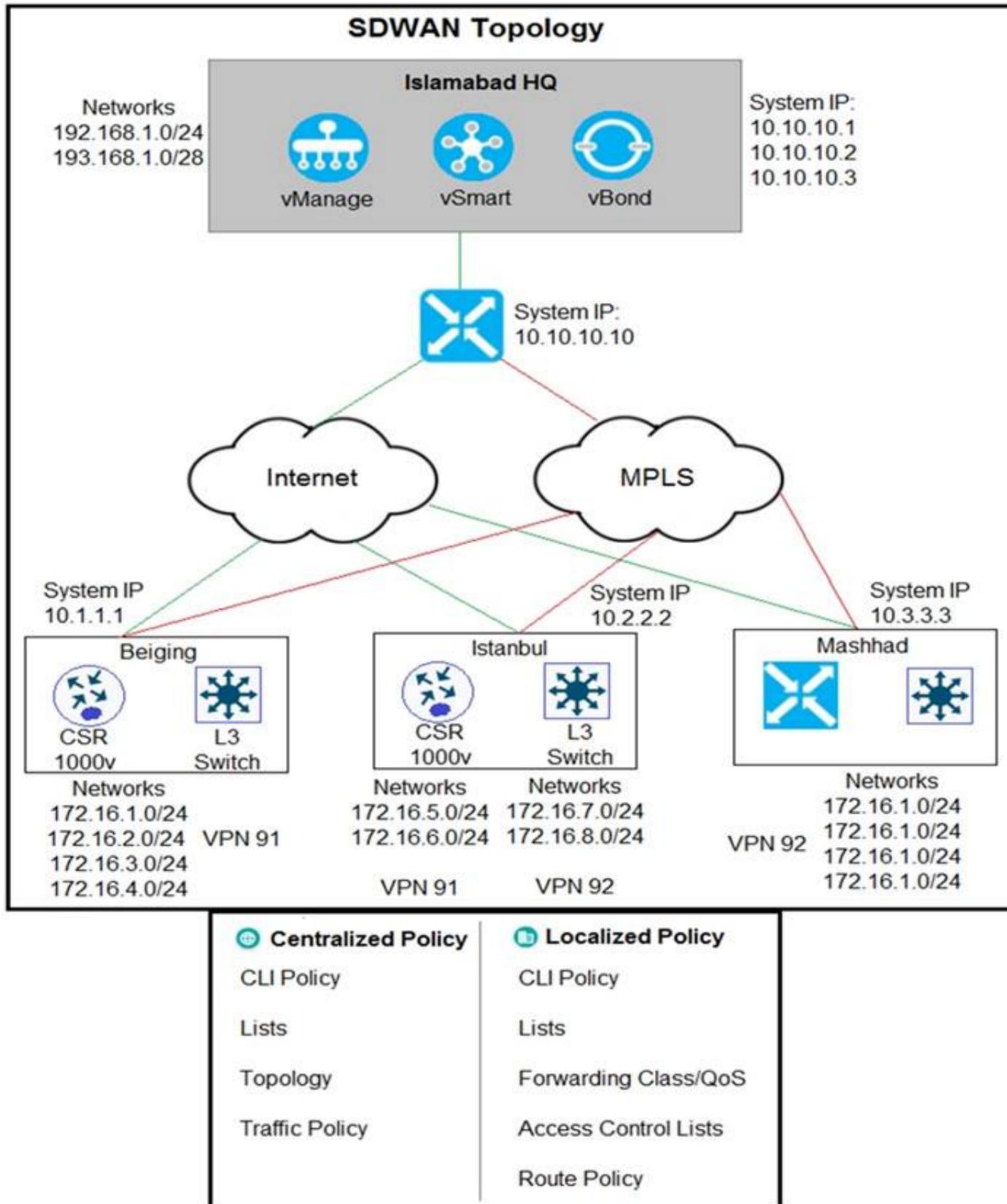
What is a benefit of using REST APIs?

- A. predefined automation and orchestration platform for event management and logging
- B. user-defined automation and integration into other orchestration systems or tools
- C. vAnalytics to simplify operational services integration and real-time event monitoring
- D. predefined SD-WAN controller with other platform integration for event management and logging

**Answer: B**

**NEW QUESTION 23**

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 27**

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 28**

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

IP address	target1
color	target2
encapsulation	target3
VPN	
service	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

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

**NEW QUESTION 33**

Which plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay?

- A. Data
- B. Orchestration
- C. Management
- D. Control

Answer: B

**Explanation:**

The Cisco SD-WAN solution is comprised of separate orchestration, management, control, and data planes.

- The orchestration plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay.

#### NEW QUESTION 37

Which TCP Optimization feature is used by WAN Edge to prevent unnecessary retransmissions and large initial TCP window sizes to maximize throughput and achieve a better quality?

- A. SEQ
- B. SYN
- C. RTT
- D. SACK

**Answer:** D

**Explanation:**

#### TCP Optimization

The Cisco SD-WAN TCP Optimization feature uses TCP Selective Acknowledgement (SACK) to prevent unnecessary retransmissions and large initial TCP window sizes in order to maximize throughput and achieve a better quality of experience.

#### NEW QUESTION 38

Refer to the exhibit.

```
policy
  policer ccnp
    rate 1000000
    burst 15000
    exceed drop
  !
access-list acl-guest
  sequence 1
  match
    source-ip 172.16.10.0/24
    destination-ip 172.16.20.0/24
    destination-port 20
    protocol 6
  !
  action accept
    policer ccnp
  !
  !
  default-action drop
```

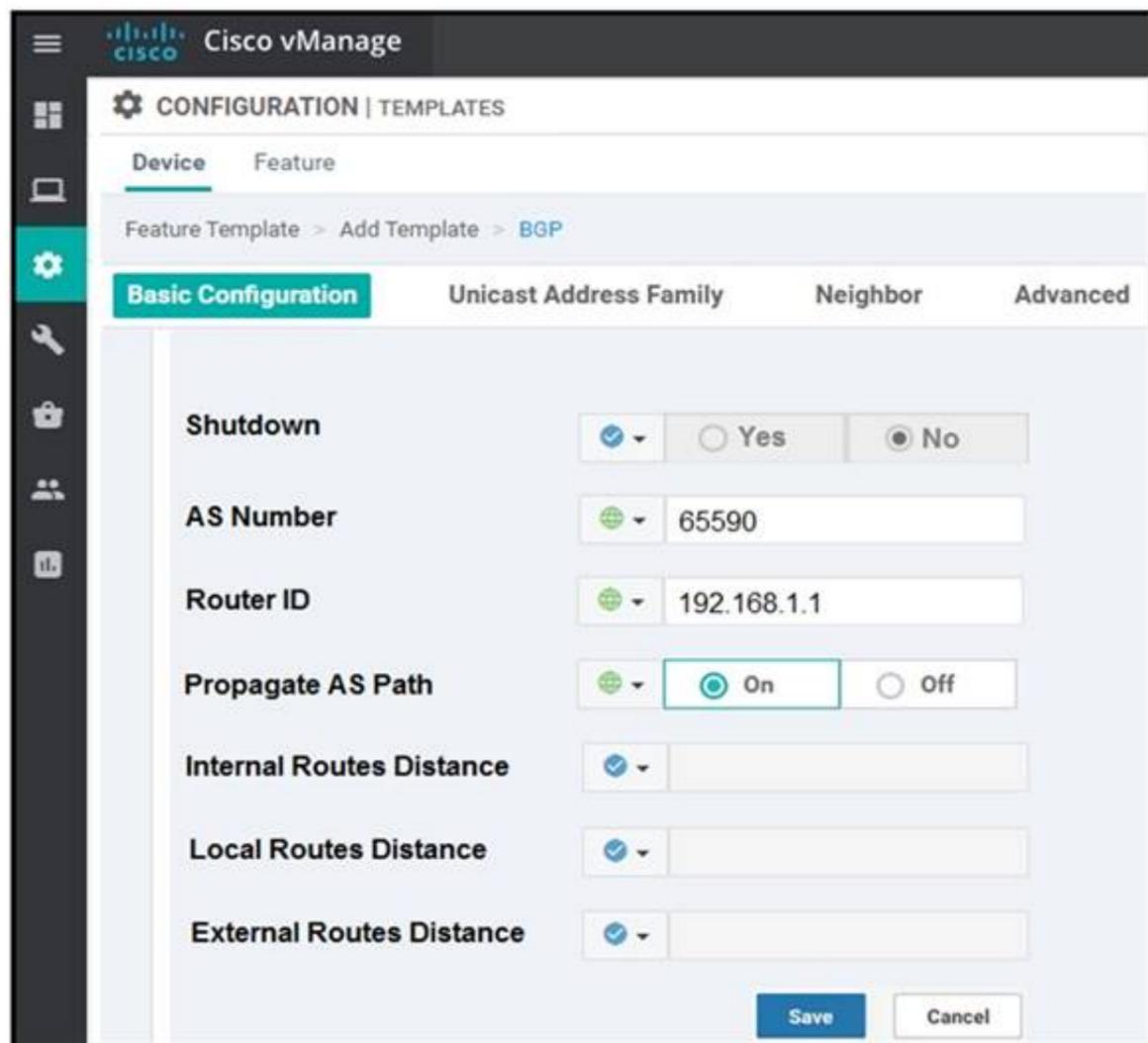
Which QoS treatment results from this configuration after the access list acl-guest is applied inbound on the vpn1 interface?

- A. A UDP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted
- B. A TCP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped
- C. A UDP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped.
- D. A TCP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted

**Answer:** C

#### NEW QUESTION 41

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 43**

A policy is created to influence routing in the network using a group of prefixes. What policy application will achieve this goal when applied to a site list?

- A. Vpn-membership policy
- B. Control-policy
- C. cflowd-template
- D. App-route policy

Answer: B

**Explanation:**

Control policy, which is similar to standard routing policy, operates on routes and routing information in the control plane of the overlay network. Centralized control policy, which is provisioned on the Cisco vSmart Controller, is the Cisco SD-WAN technique for customizing network-wide routing decisions that determine or influence routing paths through the overlay network. Local control policy, which is provisioned on a Cisco vEdge device, allows customization of routing decisions

**NEW QUESTION 46**

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 50**

Refer to the exhibit.

LOCAL	PEER REMOTE	PEER REPEAT	PEER SYSTEM IP	SITE	DOMAIN	PEER PRIVATE	PEER PORT	PEER PUBLIC IP	PEER PUBLIC
INSTANCE TYPE	REMOTE COLOR	PROTOCOL STATE	ERROR	ID	ID	PRIVATE IP	PORT	PUBLIC IP	PORT
0	vsmart	tls	1.1.1.3	100	1	100.1.1.3	23456	100.1.1.3	23456
default		trying	DOWNFAIL	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 52**

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

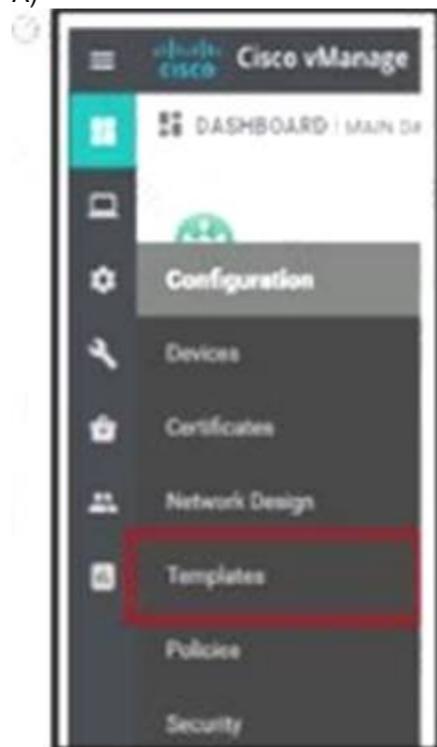
- A. BGP
- B. OSPF
- C. BFD
- D. OMP

Answer: D

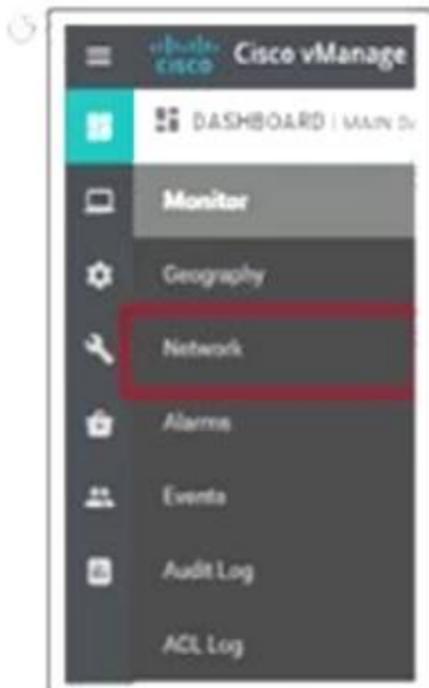
**NEW QUESTION 55**

Company ABC has decided to deploy the controllers using the On-Prem method. How does the administrator upload the WAN Edge list to the vManage?

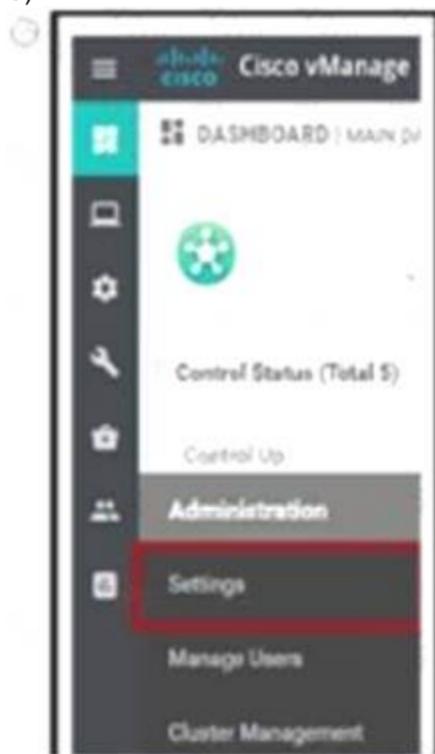
A)



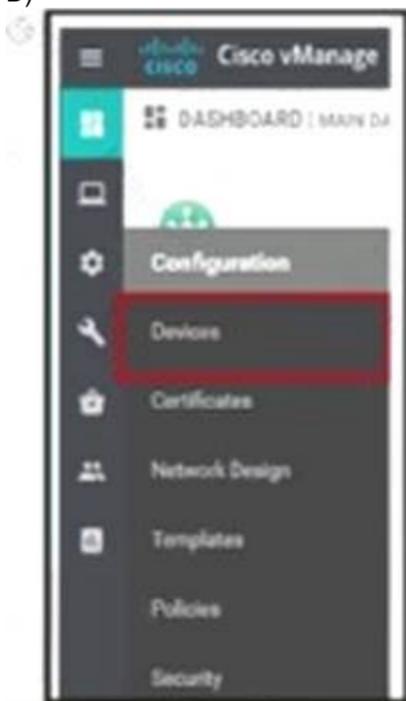
B)



C)



D)



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

**Answer:** D

**Explanation:**

[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_18.3/Configuration/Devices](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices)

**NEW QUESTION 59**

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 62**

How many vCPUs and how much RAM are recommended to run the vSmart controller on the KVM server for 251 to 1000 devices in software version 20.4.x?

- A. 4vCPU
- B. 16 GB
- C. 4 vCPU
- D. 8 GB
- E. 8vCPU
- F. 16 GB
- G. 2vCPUs.4GB

**Answer:** B

**NEW QUESTION 65**

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

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

**Answer:** A

**NEW QUESTION 69**

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

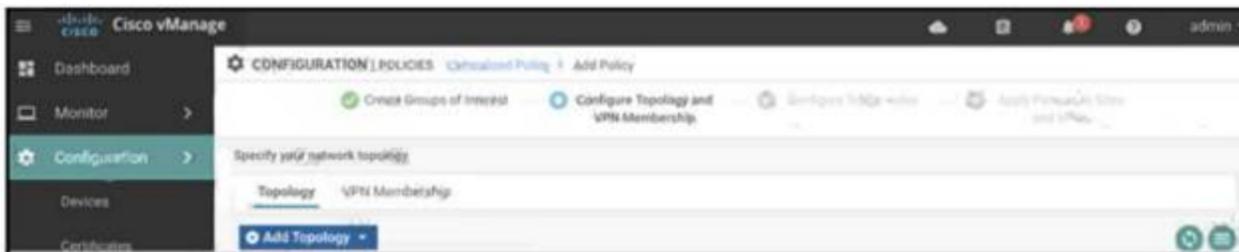
**Answer:** A

**Explanation:**

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

**NEW QUESTION 72**

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 73**

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 78**

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 81**

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 82**

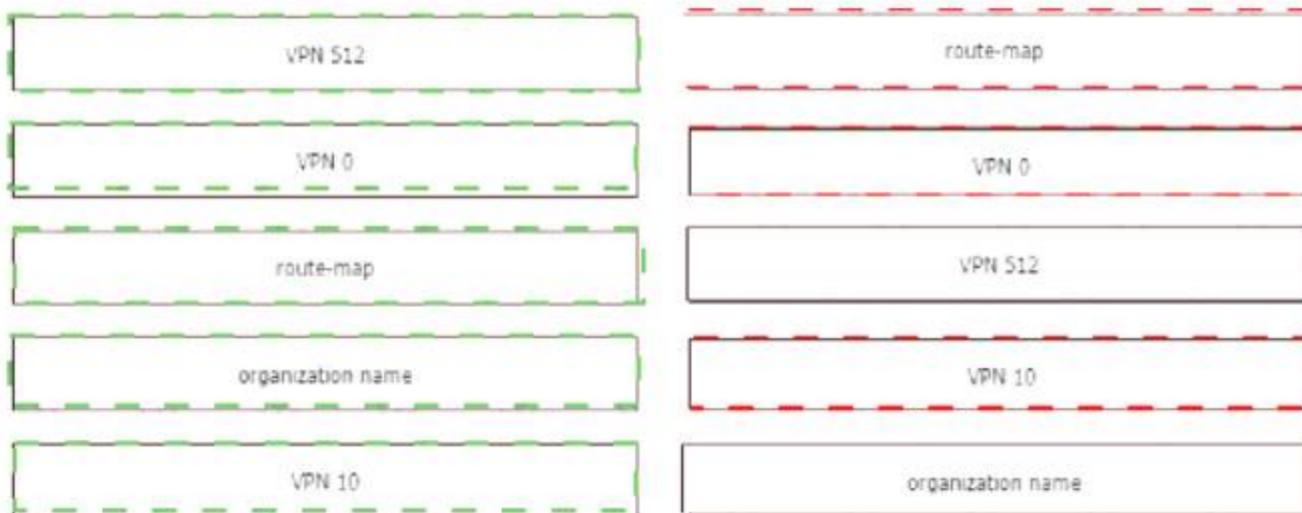
Drag and drop the functions from the left onto the correct templates on the right.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 87**

Refer to the exhibit.

Address Family	<input type="radio"/> IPv6	<input checked="" type="radio"/> On	<input type="radio"/> Off
Address Family	<input type="radio"/> IPv6	ipv4-unicast <input type="text" value="x"/>	
Maximum Number of Prefixes	<input checked="" type="checkbox"/>	<input type="text" value=""/>	
Route Policy In	<input checked="" type="checkbox"/>	<input type="radio"/> On	<input checked="" type="radio"/> Off
Route Policy Out	<input type="radio"/> IPv6	<input checked="" type="radio"/> On	<input type="radio"/> Off
Policy Name	<input type="radio"/> IPv6	eBGP_Community_Policy	

The engineer must assign community tags to 3 of its 74 critical server networks as soon as that are advertised to BGP peers. These server networks must not be advertised outside AS. Which configuration fulfill this requirement?

A)

```

policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 local-as
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
    
```

B)

```

policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-export
default-action accept
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
    
```

C)

```
policy
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 local-as
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

D)

```
policy
route-policy eBGP_Community_Polic
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-export
default-action accept
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
```

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

Answer: D

**NEW QUESTION 90**

Drag and drop the security terminologies from the left onto the PCI-compliant network features and devices on the right.

transport security	IPS
perimeter security	zone-based firewall and VPNs
segmentation	IPsec VPN
attack prevention	firewall

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Graphical user interface, application Description automatically generated

**NEW QUESTION 92**

An administrator is configuring the severity level on the vManage NMS for events that indicate that an action must be taken immediately. Which severity level must be configured?

- A. warning
- B. error
- C. critical
- D. alert

Answer: D

**Explanation:**

- Alert— Action must be taken immediately (corresponds to syslog severity 1).

**NEW QUESTION 96**

Which configuration step is taken on vManage after WAN Edge list is uploaded?

- A. Send the list to controllers

- B. Enable the ZTP process
- C. Verify the device certificate
- D. Set the device as valid

Answer: D

**Explanation:**

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

device state must be moved from staging to valid. In vManage under **Configuration > Certificates > WAN Edge List**, select the WAN Edge device(s) and change the state to **valid** under the **Validity** column and click **Send to Controllers**.

**NEW QUESTION 101**

A network administrator is configuring Qos on a vEdge 5000 router and needs to enable it on the transport side interface. Which policy setting must be selected to accomplish this goal?

- A. Cloud QoS Service side
- B. Cloud QoS
- C. NetFlow
- D. Application

Answer: B

**Explanation:**

9. Since the DC routers are vEdge 5000s, select the **Cloud QoS** checkbox to enable QoS on the transport side.

**NEW QUESTION 102**

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 106**

An engineer is configuring a WAN Edge router for DIA based on matching QoS parameters. Which two actions accomplish this task? (Choose two.)

- A. Apply a QoS map policy.

- B. Configure a control policy.
- C. Configure a centralized data policy.
- D. Configure NAT on the transport interface.
- E. Apply a data policy on WAN interface.

**Answer:** CD

**Explanation:**

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

#### NEW QUESTION 108

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 110

Which hardware component is involved in the Cisco SD-WAN authentication process for ISR platforms?

- A. TPMD
- B. ZTP
- C. TPC
- D. SUDI

**Answer:** D

#### NEW QUESTION 114

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

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

**Answer:** CE

**Explanation:**

#### 2. Virtual platforms

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

#### NEW QUESTION 118

What is the procedure to upgrade all Cisco SD-WAN devices to a recent version?

- A. The upgrade is performed for a group of WAN Edge devices first to ensure data-plane availability when other controllers are updated.
- B. The upgrade is performed first on vManage, then on WAN Edge devices, then on vBond and finally on vSmart. The reboot must start from WAN Edge devices.
- C. Upgrade and reboot are performed first on vManage then on vBond then on vSmart
- D. and finally on the Cisco WAN Edge devices.
- E. Upgrade and reboot are performed first on vBond
- F. then on vSmart
- G. and finally on the Cisco WAN Edge devices.

**Answer:** C

#### NEW QUESTION 119

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 123**

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

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

**Answer: B**

**NEW QUESTION 128**

Refer to the exhibit.

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

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

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

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

**Answer: B**

**Explanation:**

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

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

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

**NEW QUESTION 131**

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.)

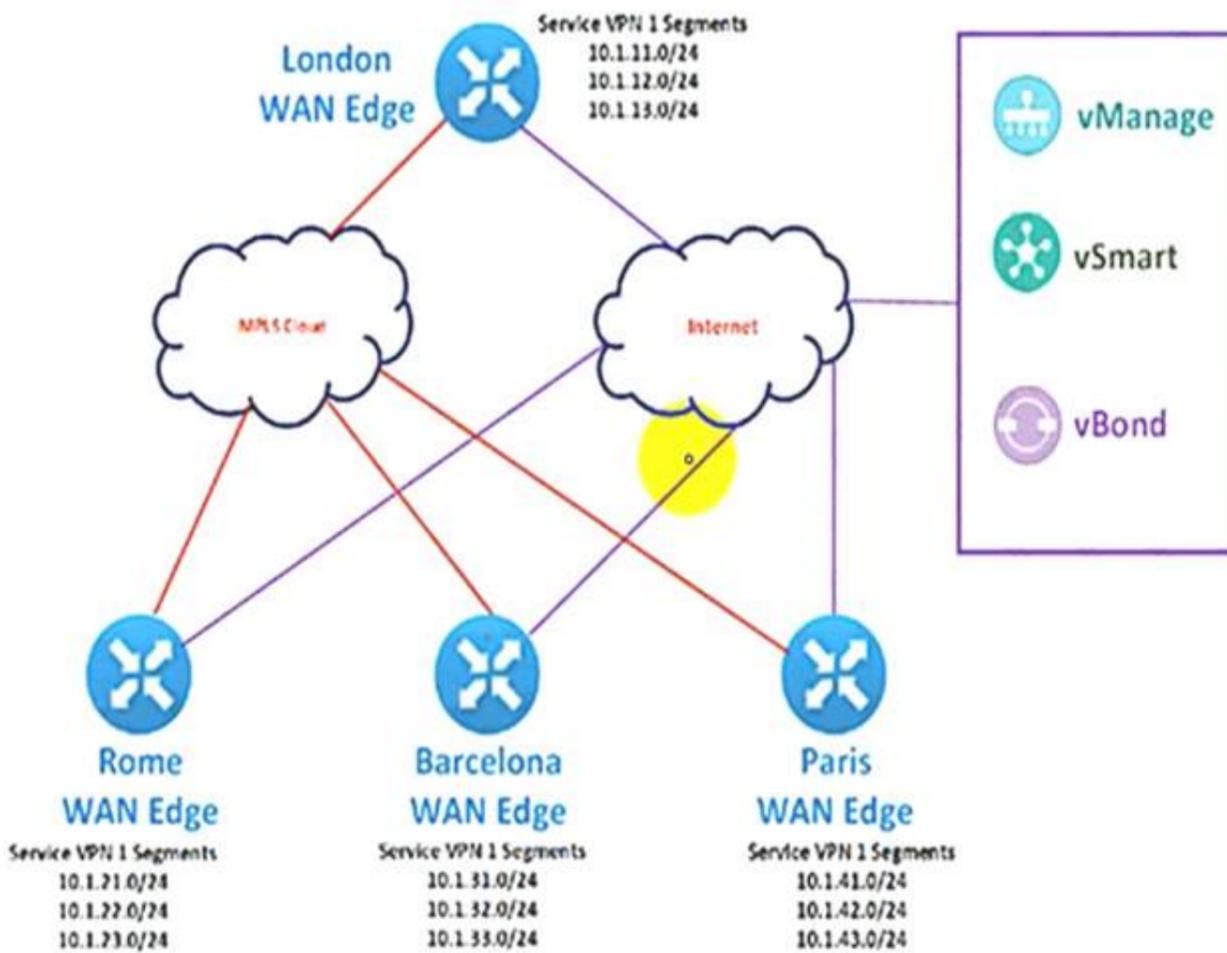
```
vpn 10
  service FW address 1.1.1.1
```

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 135**

Refer to the exhibit.



The Cisco SD-WAN network is configured with a default full-mesh topology. An engineer wants Paris WAN Edge to use the Internet HOC as the preferred TLOC for MSN Messenger and AOL Messenger traffic. Which policy achieves this goal?

A)



B)



C)



D)



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

Answer: A

**NEW QUESTION 137**

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 140**

What is a default protocol for control plane connection?

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

Answer: D

**NEW QUESTION 141**

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

A)

```

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

B)

```

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

C)

```

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

D)

```

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

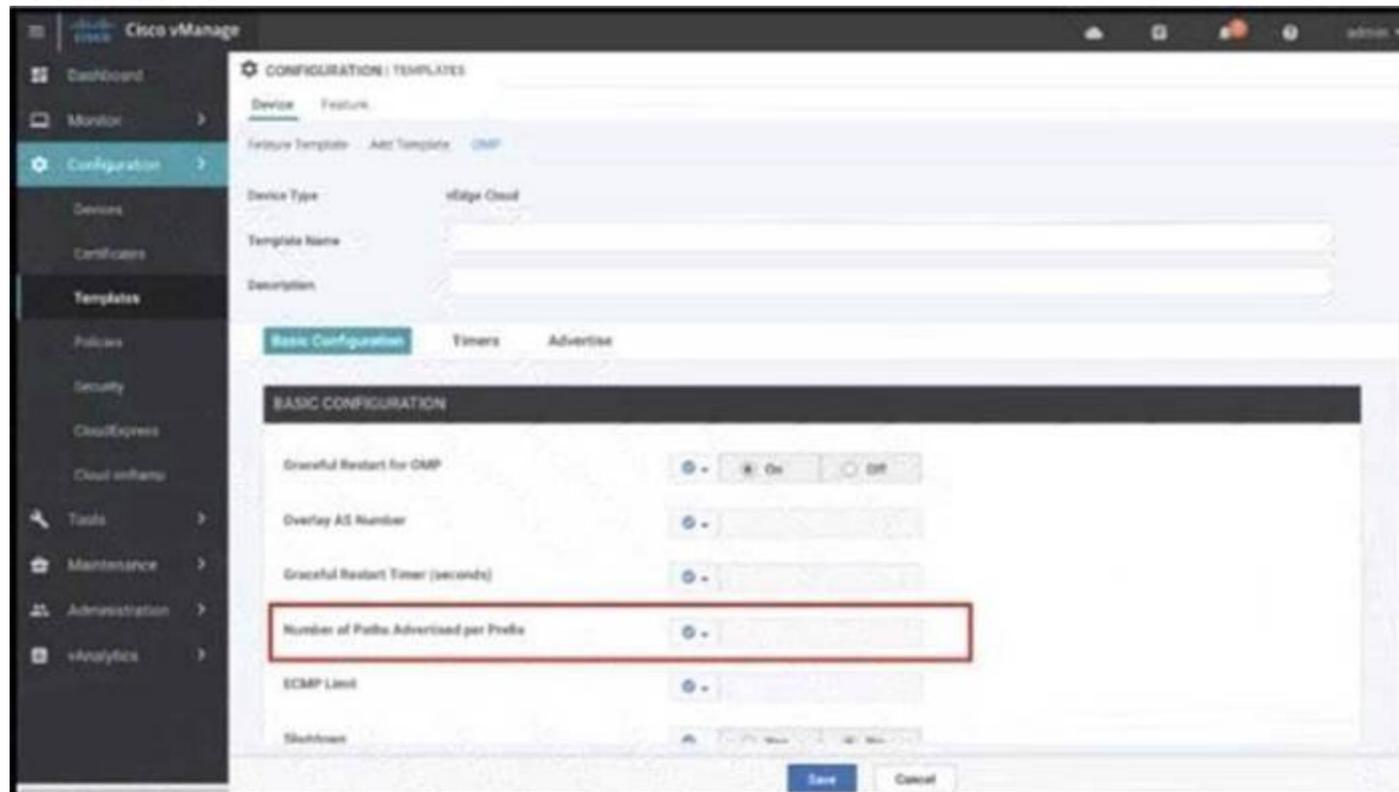
- A. Option A

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

Answer: B

**NEW QUESTION 145**

Refer to the exhibit.



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

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

Answer: D

**NEW QUESTION 149**

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 150**

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 151**

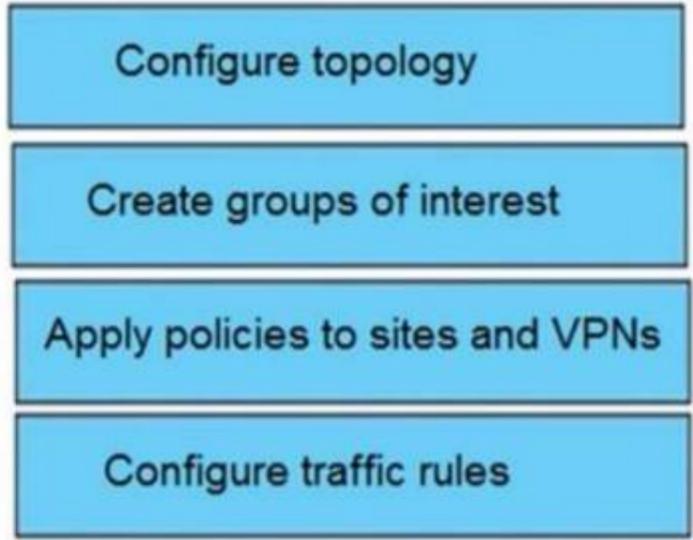
Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.

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 155

.....

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