

## Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

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



**NEW QUESTION 1**

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

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

**Answer: D**

**Explanation:**

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

**NEW QUESTION 2**

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 3**

A customer is receiving routes via OMP from vSmart controller for a specific VPN. The customer must provide access to the W2 loopback received via OMP to the OSPF neighbor on the service-side VPN, which configuration fulfills these requirements?

```
vpn 0
router
  ospf
    redistribute omp route-policy OSPF_Route_Policy
    area 0
    interface ge0/2
    exit
  lists
    prefix-list W2_Loopback
    ip-prefix 10.10.10.5/24
  !
  route-policy OSPF_Route_Policy
  sequence 1
  match
    address W2_Loopback
  !
  default action accept
  set
    metric 100
    metric-type type1
```

```
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
  !
  default action accept
  set
    metric 100
    metric-type type1
```

```

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

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

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 type1

```

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

**Answer:** D

**Explanation:**

Answer must start with VPN 10(service side) & should have metric-type 1 and not with VPN 0 (transport side)

**NEW QUESTION 4**

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 5**

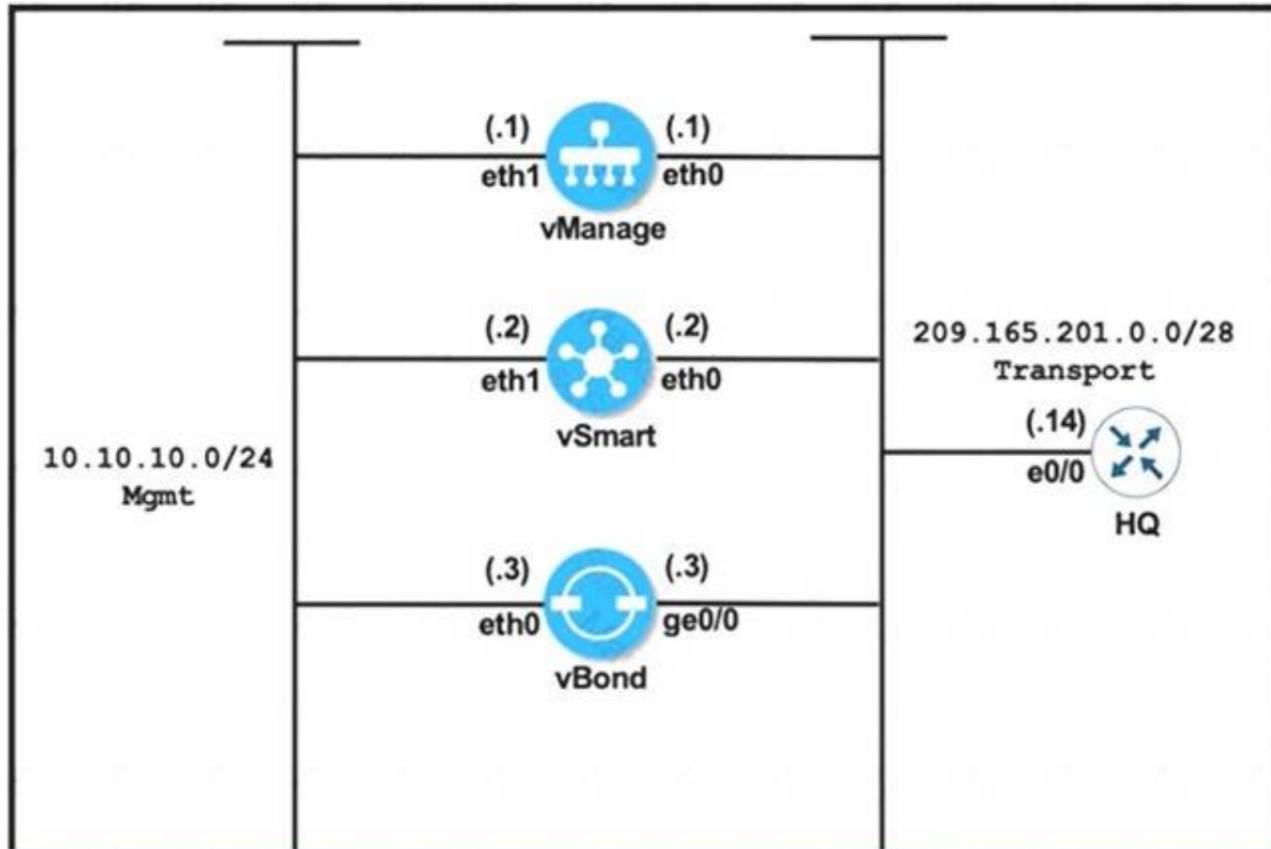
Which platforms are managed by a single vManage dashboard?

- 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 6**

Refer to the exhibit



```

vManage
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

vBond
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
    
```

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 viptela.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 7**

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 8**

A policy is created to influence routing path 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. cflowd-template
- C. app-route policy
- D. control-policy

Answer: D

**NEW QUESTION 9**

An engineer wants to automate the onboarding process for a WAN Edge router with vManage. Which command will accomplish this?

- A. request vedge-cloud activate chassis-number <chassis-number> serial <serial>
- B. request vedge-cloud activate chassis-number <chassis-number> token <token-number>
- C. request vedge-cloud activate serial <serial> token <token-number>
- D. request vedge-cloud activate chassis-number <chassis-number> organization <organization>

Answer: B

**Explanation:**

```
vedge#
vedge# vedge# request vedge-cloud activate chassis-number 19f2059b-5fd1-9027-a665-24c33d223247 token 22ee00b3a0c22d8269725d1cb495b718
```

**NEW QUESTION 10**

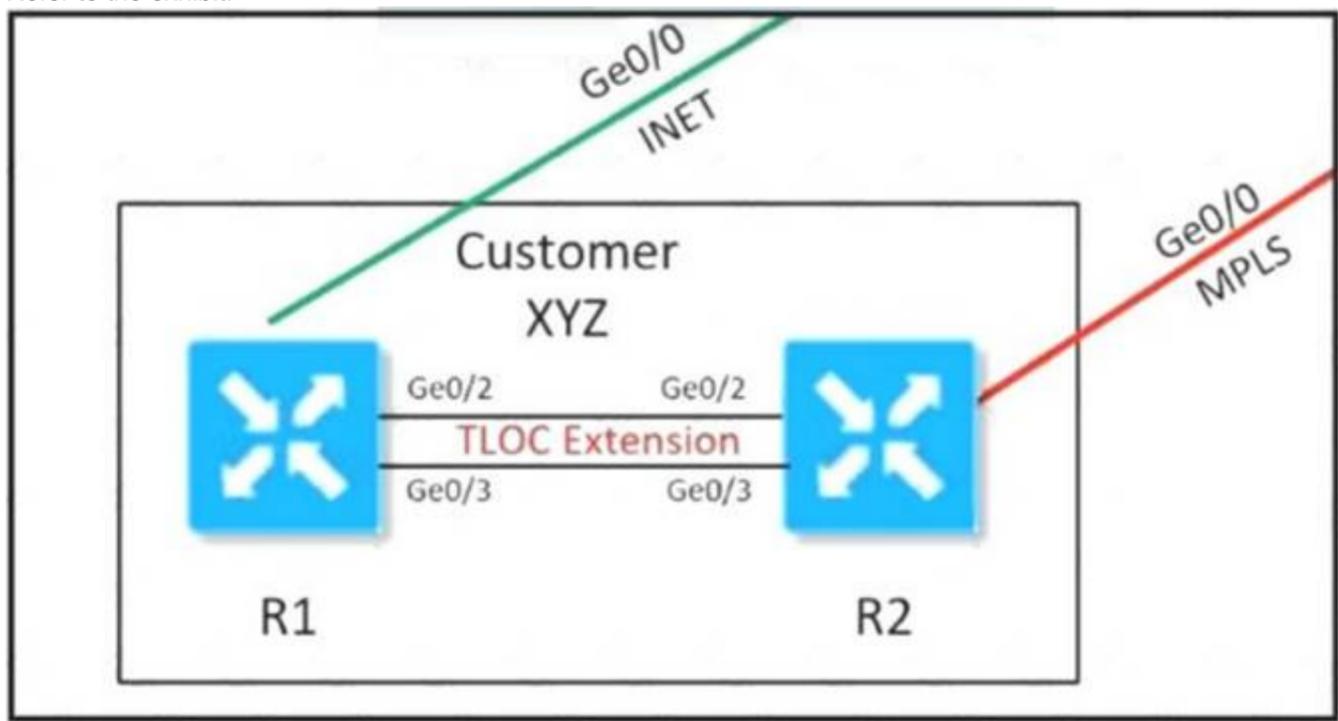
Which SD-WAN component is configured to enforce a policy to redirect branch-to-branch traffic toward a network service such as a firewall or IPS?

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

Answer: C

**NEW QUESTION 10**

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?

```

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
A.
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

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
B.
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

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
C.
R2
interface ge0/2
 ip address 43.43.43.1/30

interface ge0/3
 ip address 34.34.34.1/30

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
D.
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 11**

A vEdge platform is sending VRRP advertisement messages every 10 seconds. Which value configures the router back to the default timer?

- A. 2 seconds
- B. 3 seconds
- C. 1 second
- D. 5 seconds

**Answer: C**

**NEW QUESTION 14**

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 19**

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 20**

Which combination of platforms are managed by vManage?

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

**Answer:** A

**NEW QUESTION 22**

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 24**

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

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

**Answer:** AC

**Explanation:**

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

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

**NEW QUESTION 25**

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 26**

In an AWS cloud, which feature provision WAN Edge routers automatically in Cisco SD-WAN?

- A. Cloud app
- B. Cloud OnRamp
- C. vAnalytics
- D. Network Designer

**Answer:** B

**Explanation:**

Cisco SD-WAN Cloud OnRamp for IaaS, "Cloud OnRamp" for short, is a Cisco SD-WAN feature that automates provisioning of a Cisco SD-WAN virtual appliance routers (either vEdge Cloud or CSR (Cloud Services Router)) in the AWS cloud, after providing

**NEW QUESTION 29**

An enterprise needs DIA on some of its branches with a common location ID: A041:B70C:D78E::18 Which WAN Edge configuration meets the requirement?

- A)
- ```
vpn 1
interface ge0/1
ip address 172.16.0.1/24
vpn 512
ip route 0.0.0.0/0 vpn 0
```
- B)
- ```
vpn 1
ip route 0.0.0.0/0 vpn 1
interface ge0/0
ip address 172.16.0.1/24
nat
```
- C)
- ```
vpn 0
interface ge0/0
ip address 172.16.0.1/24
nat
vpn 1
ip route 0.0.0.0/0 vpn 0
```
- D)
- ```
vpn 0
ip route 0.0.0.0/0 vpn 0
vpn 1
interface ge0/1
ip address 172.16.0.1/24
nat
```

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

**Answer:** C

**NEW QUESTION 33**

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 34**

Refer to the exhibit.

LOCAL	PEER REMOTE	PEER REPEAT	PEER SYSTEM IP	SITE	DOMAIN	PEER PRIVATE	PEER PUBLIC	PEER PUBLIC
INSTANCE TYPE	REMOTE COLOR	PROTOCOL STATE	ERROR	ID	ID	PRIVATE IP	PORT	PORT
				ERROR	COUNT	DOWNTIME		
0	vsmart	tls	1.1.1.3	100	1	100.1.1.3	23456	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 39**

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 40**

If Smart Account Sync is not used, which Cisco SD-WAN component is used to upload an authorized serial number file?

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

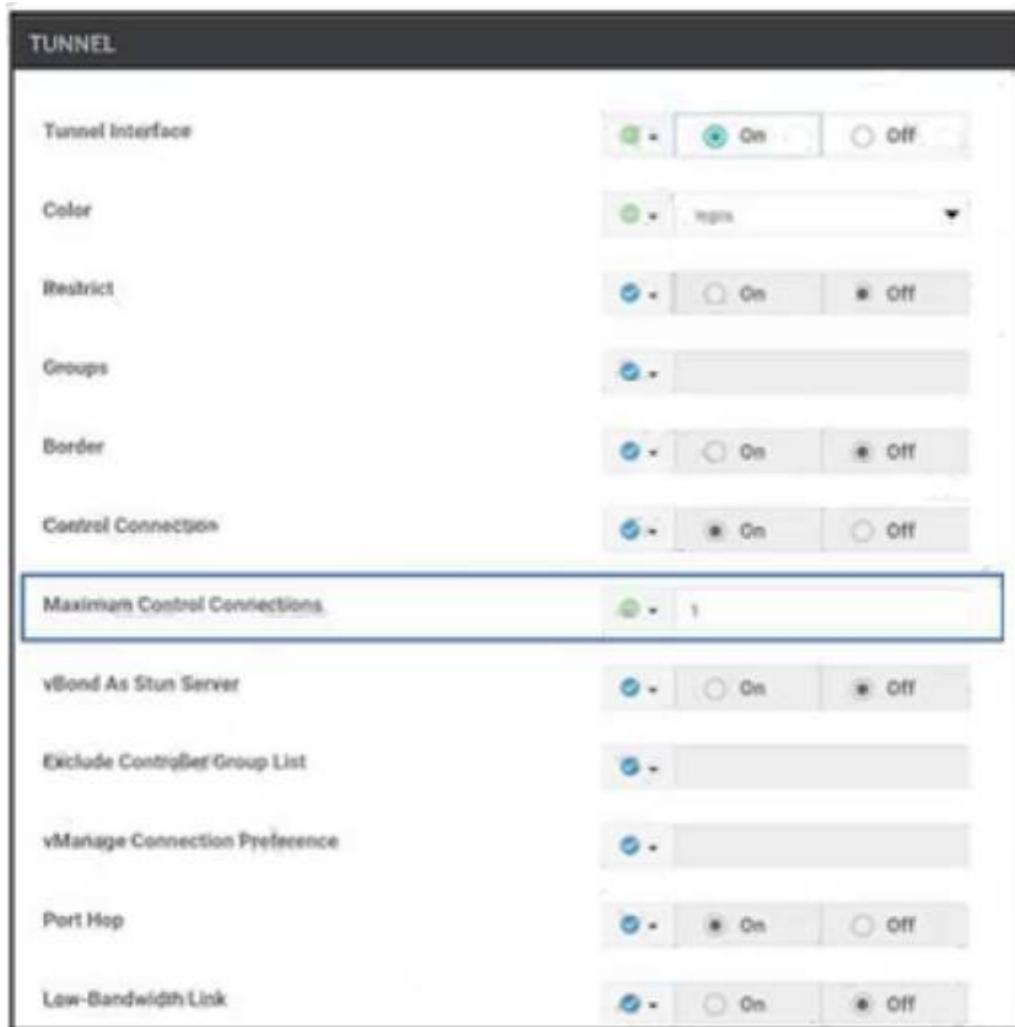
**Answer: B**

**Explanation:**

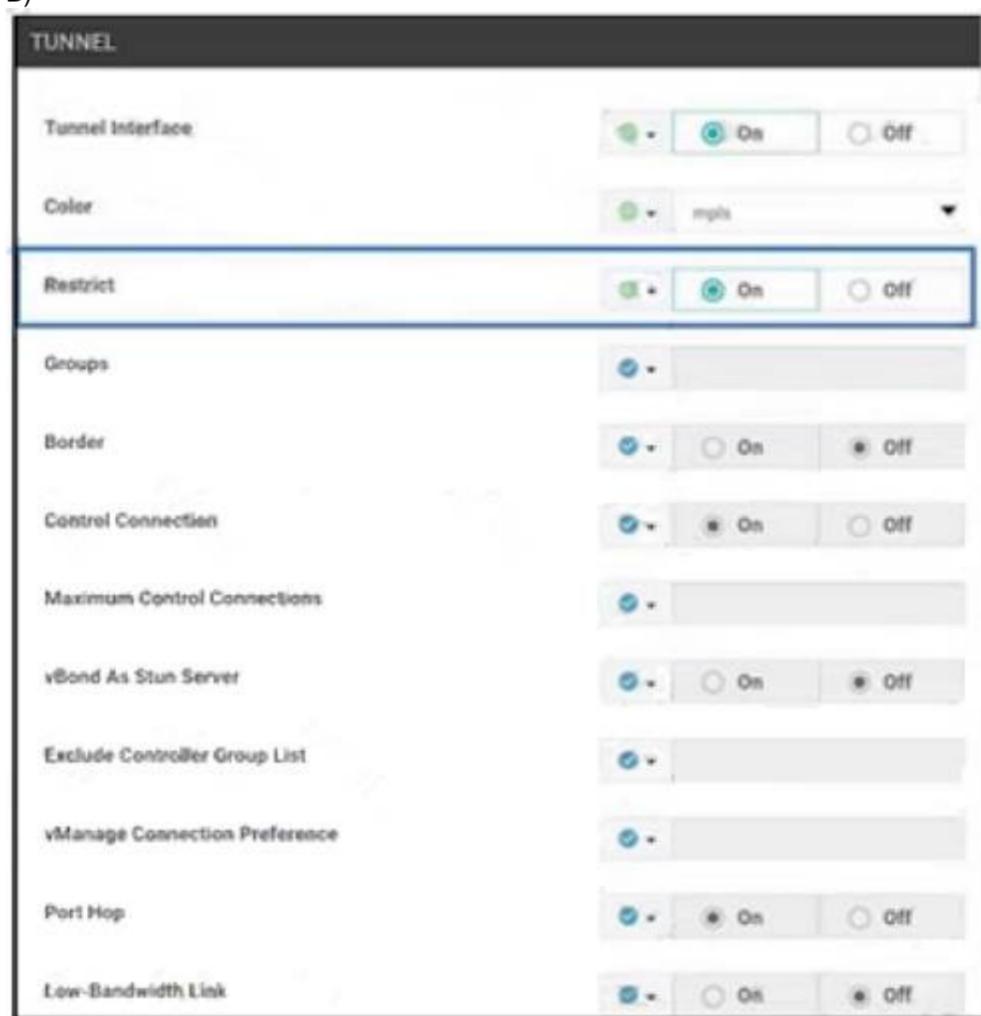
[https://sdwan-docs.cisco.com/Product\\_Documentation/vManage\\_Help/Release\\_18.3/Configuration/Devices](https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices)

**NEW QUESTION 42**

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



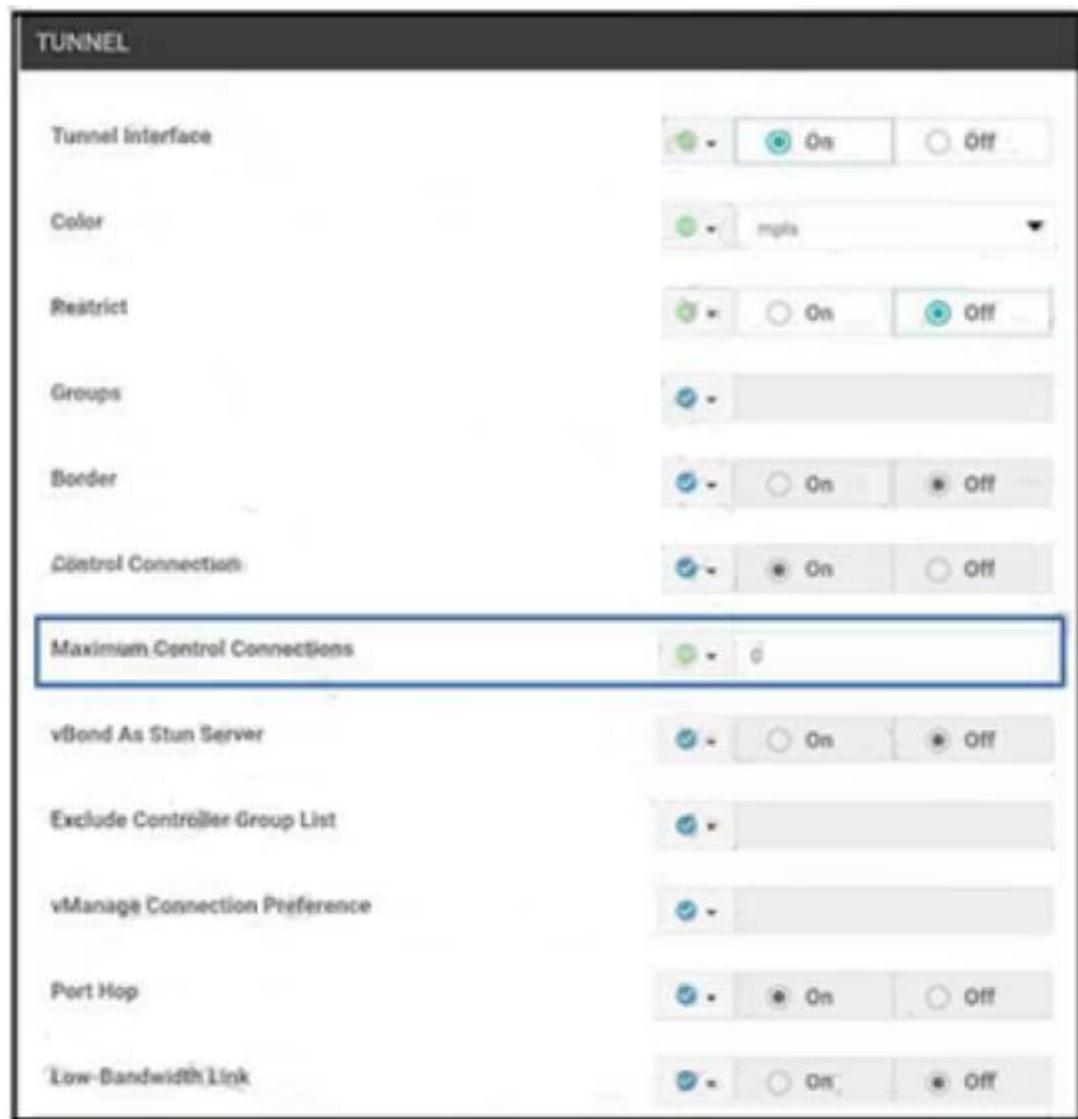
B)



C)

Miss

D)

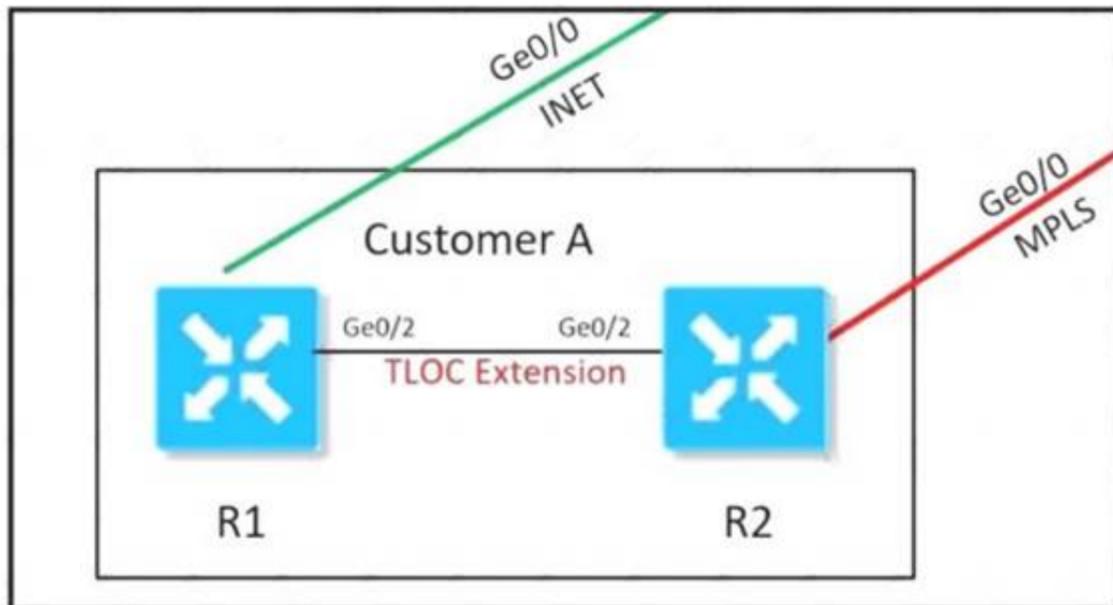


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

**NEW QUESTION 43**

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
```

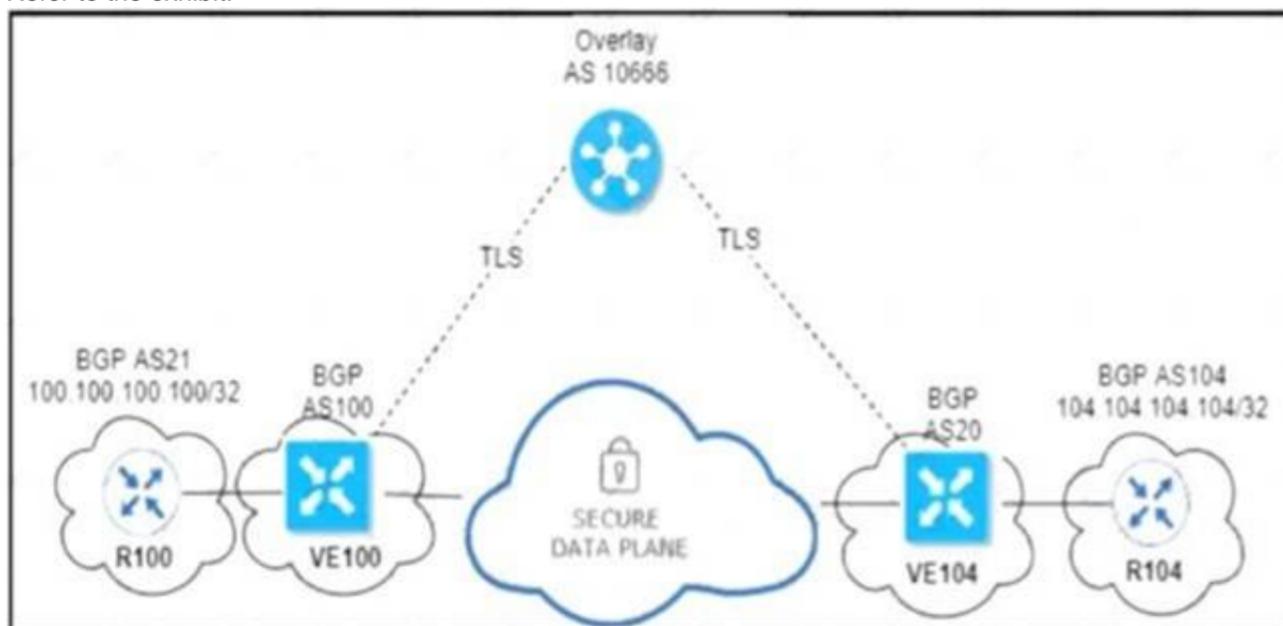
```
D)
vpn 10
name ***** Service VPN 10 *****
router
ospf
 redistribute omp route-policy OSPF_Route_Policy
 area 0
 interface ge0/2
 exit
lists
prefix-list W2_Loopback
ip-prefix 10.10.10.5/32
!
route-policy OSPF_Route_Policy
sequence 1
match
 address W2_Loopback
!
action accept
```

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

Answer: D

**NEW QUESTION 44**

Refer to the exhibit.



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

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

Answer: A

**NEW QUESTION 49**

Which two products are used to deploy Cisco WAN Edge Router virtual platforms? (Choose two.)

- A. HP ProLiant DL360 Generation 10 running HP-UX
- B. Cisco ENCS 5000 Series
- C. Sun SPARC Node running AIX
- D. Cisco UCS
- E. Sun Enterprise M4000 Server running Sun Solaris

**Answer:** BD

**Explanation:**

<https://www.cisco.com/c/en/us/products/collateral/routers/5400-enterprise-network-compute-system/datasheet-c>

#### NEW QUESTION 54

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 57

At which layer does the application-aware firewall block applications on a WAN Edge?

- A. 3
- B. 7
- C. 5
- D. 2

**Answer:** B

#### NEW QUESTION 59

How many subnets are necessary in Azure VNet for a WAN Edge device to function in the cloud deployment?

- A. CSR is the WAN Edge device that is supported in the Microsoft cloud
- B. The Microsoft underlay cloud fabric performs the management function.
- C. There must be three subnets in VNet: management, public, and services.
- D. One public subnet is required in VNet
- E. The Microsoft underlay cloud fabric performs all of the routing functions for WAN Edge.
- F. Public and services subnets are required in VNet
- G. The Microsoft underlay cloud fabric performs the management function.

**Answer:** D

#### NEW QUESTION 62

Refer to the exhibit.

Address Family	<input type="radio"/> IPv4 <input checked="" type="radio"/> IPv6	<input checked="" type="radio"/> On <input type="radio"/> Off
Address Family	<input type="radio"/> IPv4 <input checked="" type="radio"/> IPv6	ipv4-unicast <input type="text"/>
Maximum Number of Prefixes	<input checked="" type="checkbox"/> Unlimited <input type="checkbox"/> Limited	<input type="text"/>
Route Policy In	<input checked="" type="checkbox"/> Match <input type="checkbox"/> No Match	<input type="radio"/> On <input checked="" type="radio"/> Off
Route Policy Out	<input type="radio"/> IPv4 <input checked="" type="radio"/> IPv6	<input checked="" type="radio"/> On <input type="radio"/> Off
Policy Name	<input type="radio"/> IPv4 <input checked="" 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 63**

An organization requires the use of integrated preventative engines, exploit protection, and the most updated and advanced signature-based antivirus with

sandboxing and threat intelligence to stop malicious attachments before they reach users and get executed. Which Cisco SD-WAN solution meets the requirements?

- A. Cisco Trust Anchor module
- B. URL filtering and Umbrella DNS security
- C. Cisco AMP and Threat Grid
- D. Snort IPS

Answer: D

**NEW QUESTION 67**

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

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

Answer: B

**Explanation:**

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

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

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

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

**NEW QUESTION 72**

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 74**

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 77**

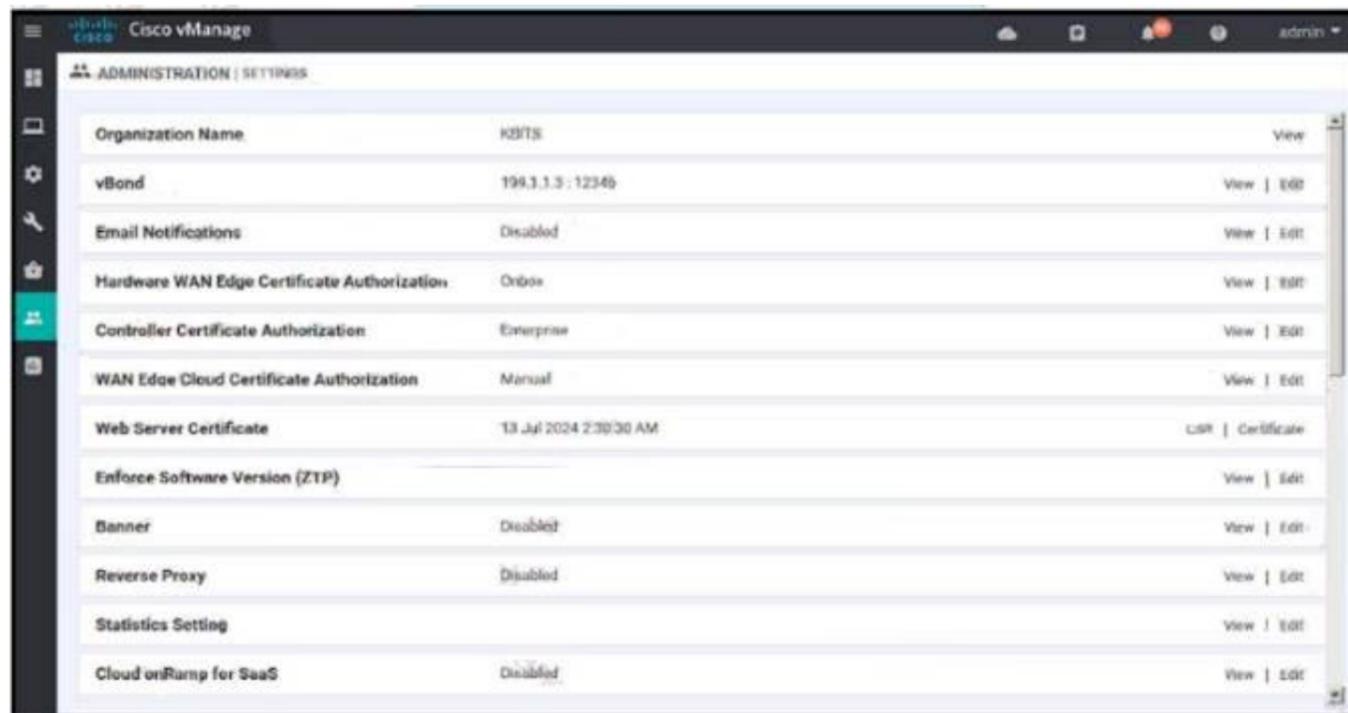
Which component of the Cisco SD-WAN control plane architecture should be located in a public Internet address space and facilitates NAT-traversal?

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

Answer: A

**NEW QUESTION 82**

Refer to the exhibit.



Which two configurations are needed to get the WAN Edges registered with the controllers when certificates are used? (Choose two)

- A. Generate a CSR manually within vManage server
- B. Generate a CSR manually on the WAN Edge
- C. Request a certificate manually from the Enterprise CA server
- D. Install the certificate received from the CA server manually on the WAN Edge
- E. Install the certificate received from the CA server manually on the vManage

Answer: AE

**Explanation:**

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

**NEW QUESTION 86**

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 90

A large retail organization decided to move some of the branch applications to the AWS cloud. How does the network architect extend the in-house Cisco SD-WAN branch to cloud network into AWS?

- A. Create virtual WAN Edge devices Cloud through the AWS online software store
- B. Create virtual instances of vSmart Cloud through the AWS online software store
- C. Create GRE tunnels to AWS from each branch over the Internet
- D. Install the AWS Cloud Router in the main data center and provide the connectivity from each branch

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 91

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 92

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 97**

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 102**

Refer to the exhibit.

```
LAB-ROUTER#show ip route vrf 100
Gateway of last resort is 10.1.9.2 to network 0.0.0.0

m*   0.0.0.0/0 [251/0] via 10.1.9.2, 06:10:53
      [251/0] via 10.1.9.3, 06:10:53
O    10.80.6.0/24
      [110/300] via 172.19.75.78, 20:35:33, GigabitEthernet0/0/2.10
      [110/300] via 172.19.75.66, 1w0d, GigabitEthernet0/0/1.11
O    10.80.56.0/24
      [110/300] via 172.19.75.78, 20:35:33, GigabitEthernet0/0/2.10
      [110/300] via 172.19.75.66, 1w0d, GigabitEthernet0/0/1.11
```

The network administrator has configured a centralized topology policy that results in the displayed routing table at a branch office. Which two configurations are verified by the output? [Choose two.]

- A. The routing table is for the transport VPN.
- B. The default route is learned via OMP.
- C. This routing table is from a cEdge router.
- D. The default route is configured locally.
- E. The configured policy is adding a route tag of 300 to learned routes.

**Answer: BC**

**NEW QUESTION 105**

Which two services are critical for zero touch provisioning on-boarding? (Choose two)

- A. SNMP
- B. DNS
- C. DHCP
- D. AAA
- E. EMAIL

**Answer: BC**

**NEW QUESTION 107**

Which scheduling method is configured by default for the eight queues in the cloud vEdge router1?

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

**Answer: D**

**NEW QUESTION 109**

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 113**

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 117**

Which command displays BFD session summary information per TLOC on vEdge routers?

- A. show bfd history
- B. show bfd summary
- C. show bfd sessions
- D. show bfd tloc-summary-list

**Answer:** D

**NEW QUESTION 120**

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

A)

```
policy
  policer ccnp-traffic
    rate 1000000
    burst 20000
    plp high
```

B)

```
policy
  policer ccnp-traffic
    rate 1000000
    burst 20000
    exceed remark
```

C)

```
policy
  policer ccnp-traffic
    rate 1000000
    burst 20000
    exceed drop
```

D)

```
policy
  policer ccnp-traffic
    rate 1000000
    burst 20000
    exceed high
```

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

**Answer:** B

**Explanation:**

we change the PLP from low to high (configured by the policer exceed remark command).

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/qos/vEdge-20-x/qos-book/forwarding-qos.h>

**NEW QUESTION 122**

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

Answer: C

**NEW QUESTION 126**

Which protocol is used for the vManage to connect to the vSmart Controller hosted in Cloud?

- A. PnP Server
- B. ZTP
- C. NETCONF
- D. HTTP

Answer: C

**Explanation:**

Netconf and CLI-Netconf is a standards-based protocol used by Cisco vManage to provision a Cisco vSmart Controller.

**NEW QUESTION 131**

An administrator needs to configure SD-WAN to divert traffic from the company's private network to an ISP network. What action should be taken to accomplish this goal?

- A. configure the control policy
- B. configure the data policy
- C. configure the data security policy
- D. configure the application aware policy

Answer: B

**Explanation:**

Data policy influences the flow of data traffic traversing the network

**NEW QUESTION 134**

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

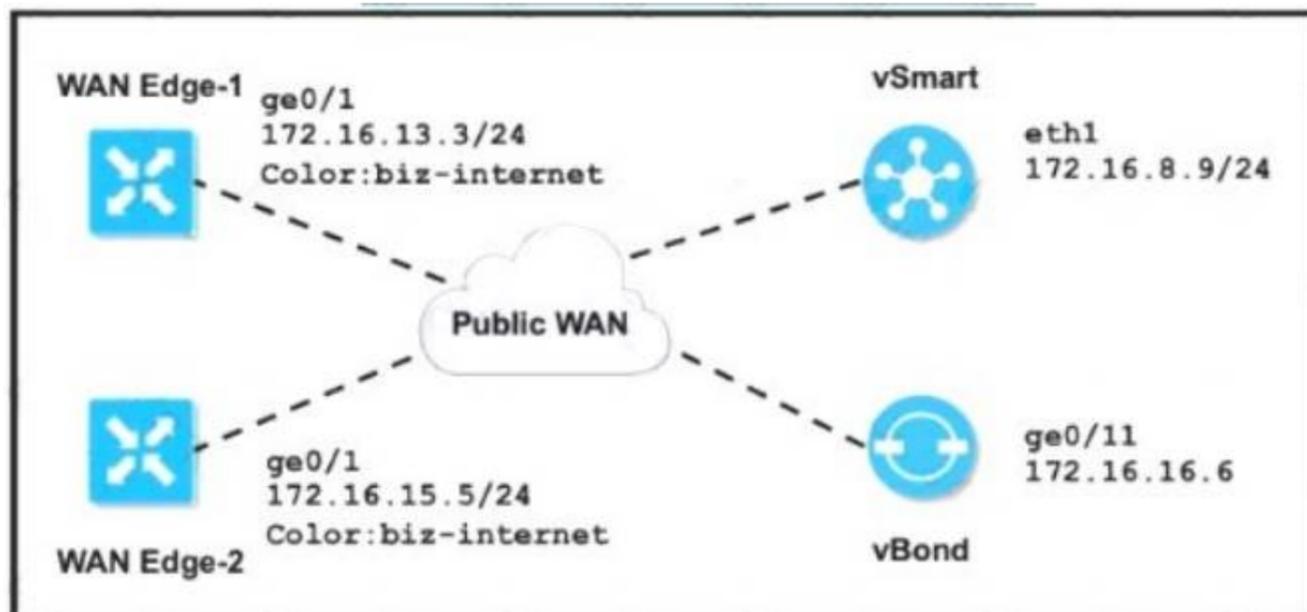
Answer: A

**Explanation:**

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

**NEW QUESTION 135**

Refer to the exhibit.



The tunnel interface configuration on both WAN Edge routers is:

```

vpn 0
interface ge0/1
 tunnel-interface
 encapsulation ipsec
 color biz-internet
 allow-service dhcp
 allow-service dns
 allow-service icmp
 no allow-service sshd
 no allow-service ntp
 no allow-service stun
 !
 no shutdown
  
```

Which configuration for WAN Edge routers will connect to the Internet?

- Option A  

```

vpn 0
interface ge0/1
 ip address 172.16.15.5/24
 !
 ip route 0.0.0.0/0 172.16.13.1
  
```
- Option B  

```

vpn 0
interface ge0/1
 ip address 172.16.13.3/24
 !
 ip route 0.0.0.0/0 172.16.13.1
  
```
- Option C  

```

vpn 0
interface ge0/1
 ip address 172.16.13.3/24
 !
 ip route 0.0.0.0/0 172.16.8.1
  
```
- Option D  

```

vpn 0
interface ge0/1
 ip address 172.16.15.5/24
 !
 ip route 0.0.0.0/0 172.16.8.1
  
```

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

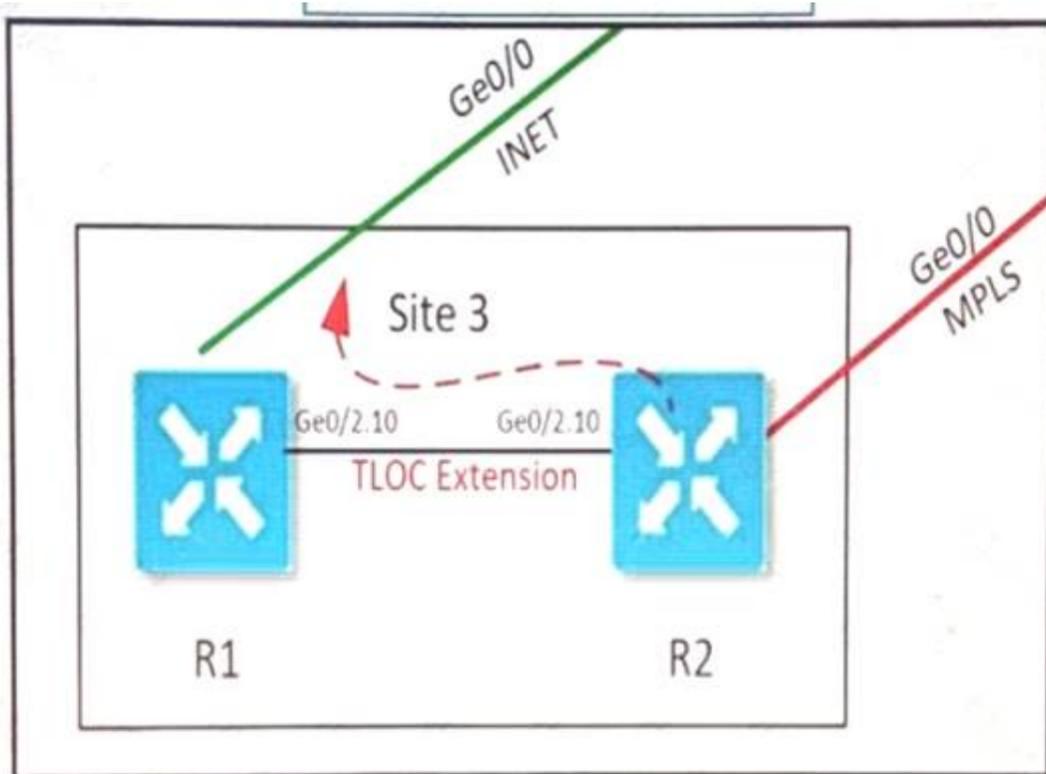
Answer: B

Explanation:

[https://sdwan-docs.cisco.com/Product\\_Documentation/Software\\_Features/SD-WAN\\_Release\\_16.3/02System\\_a](https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/02System_a)

**NEW QUESTION 139**

Refer to the exhibit.



Which configuration extends the INET interface on R1 to be used by R2 for control and data connections?

- A)

```

R1
interface ge0/2
 no shutdown
interface ge0/2.10
 ip address 43.43.43.2/30
 tloc-extension ge0/0

R2
interface ge0/2
 no shutdown
interface ge0/2.10
 ip address 43.43.43.1/30
 tloc-extension ge0/0
  
```

B)

```
B1
interface ge0/2
interface ge0/2.10
ip address 43.43.43.2/30
tloc-extension ge0/0
tunnel-interface
color public-internet
```

```
B2
interface ge0/2
interface ge0/2.10
ip address 43.43.43.1/30
tunnel-interface
color public-internet
```

C)

```
R1
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43.2/30
tloc-extension ge0/0
```

```
R2
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43.1/30
tunnel-interface
color public-internet
```

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

**Answer: C**

**Explanation:**

<https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKRST-2091.pdf>

Subinterfaces require a physical, parent interface to be defined in VPN 0, and also require the subinterface MTU to be four bytes lower than the physical interface due to the 802.1q tag. It is recommended to configure the parent physical interface for an MTU of 1504 to take care of this requirement.

**NEW QUESTION 144**

Refer to the exhibit.

```
vEdge-2(config-vpn-0)#interface ge0/2.101
vEdge-2(config-interface)#ip address 10.1.100.0/24
vEdge-2(config-interface)#tloc-extension ge0/0
vEdge-2(config-interface)#mtu 1496
vEdge-2(config-interface)#no shutdown
```

What binding is created using the tloc-extension command?

- A. between ge 0/2.101 of port-type service and ge 0/0 of port-type service
- B. between ge 0/2.101 of port-type transport and ge 0/0 of port-type service
- C. between ge 0/2.101 of port-type service and ge 0/0 of port-type transport
- D. between ge 0/2.101 of port-type transport and ge 0/0 of port-type transport

**Answer: D**

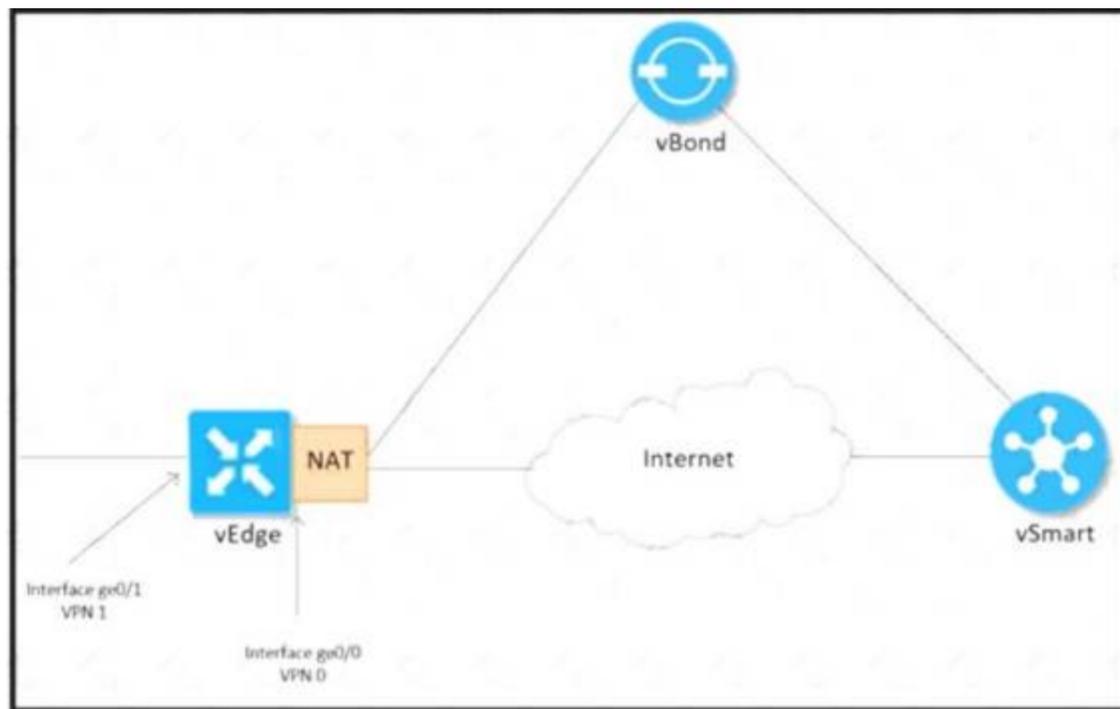
**Explanation:**

tloc-extension

Bind this interface, which connects to another vEdge router at the same physical site, to the local router's WAN transport interface (on vEdge routers only).

**NEW QUESTION 148**

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 152**

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 157**

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 160**

The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location 406141498. Which command must be configured on these devices?

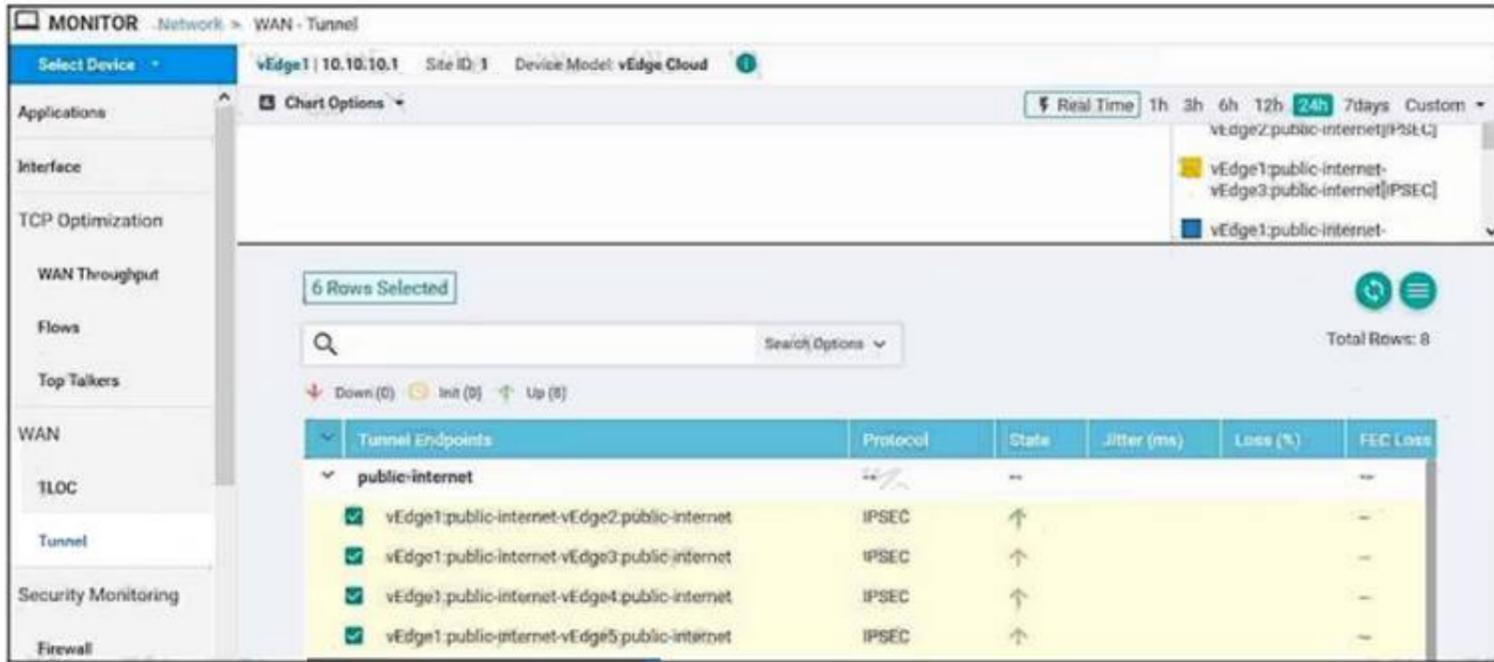
- A. cloud-qos
- B. service qos
- C. cloud-mis qos

D. mis qos

Answer: A

**NEW QUESTION 161**

Refer to the exhibit.



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

A)

```

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

ip route 0.0.0.0/0 10.50.0.102
    
```

B)

```

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

ip route 0.0.0.0/0 10.50.0.102
    
```

C)

```

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

ip route 0.0.0.0/0 10.50.0.102
    
```

D)

```

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

ip route 0.0.0.0/0 10.50.0.102
    
```

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

Answer: B

**NEW QUESTION 162**

Which two sets of identifiers does OMP carry when it advertises TLOC routes between WAN Edge routers? (Choose two.)

- A. TLOC public and private address, carrier, and preference
- B. source and destination IP address, MAC, and site ID
- C. system IP address, link color, and encapsulation

- D. VPN ID, local site network, and BGP next-hop IP address
- E. TLOC public and private address, tunnel ID, and performance

Answer: AC

**NEW QUESTION 165**

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: A

**NEW QUESTION 170**

What is a default protocol for control plane connection?

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

Answer: D

**NEW QUESTION 174**

Refer to the exhibit.

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

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 178**

Refer to exhibit.

PEER	PEER	PEER	SITE	DOMAIN	LOCAL	REMOTE	REPEAT
INSTANCE	TYPE	PRIVATE	PEER	PUBLIC	PORT	PUBLIC IP	REMOTE
COLOR	STATE	PROTOCOL	SYSTEM IP	ID	PRIVATE IP	PORT	PUBLIC IP
		EXPOS	ENRDS	ID	COUNT	DOWNTIME	
0	vBond	dtls	0.0.0.0	0	0	192.168.0.231	12345
1	vBond	dtls	0.0.0.0	0	0	192.168.0.231	12345

An engineer is troubleshooting tear down of control connections even though a valid Certificate Serial Number is entered Which two actions resolve the Issue?  
(Choose two)

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

**Answer:** CD

**Explanation:**

<https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-control-connections/ta-p/38>

**NEW QUESTION 181**

.....

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- \* 300-415 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year