

Exam Questions 300-415

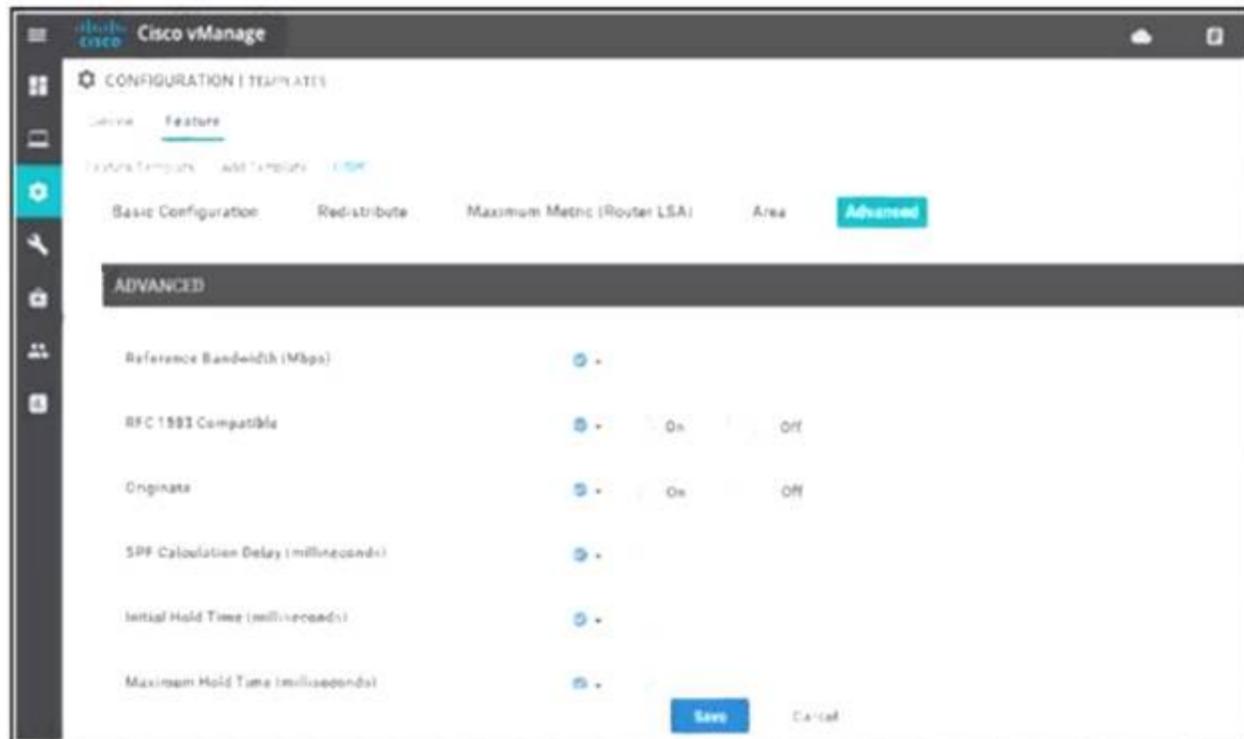
Implementing Cisco SD-WAN Solutions (ENSDWI)

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



NEW QUESTION 1

Refer to the exhibit.



A network administrator is configuring OSPF advanced configuration parameters from a template using the vManager GUI for a branch WAN Edge router to calculate the cost of summary routes to an ASBR. Which action achieves this configuration?

- A. Disable RFC 1583 Compatible
- B. Enable Originate
- C. Enable RFC 1M3 Compatible
- D. Disable Original

Answer: C

NEW QUESTION 2

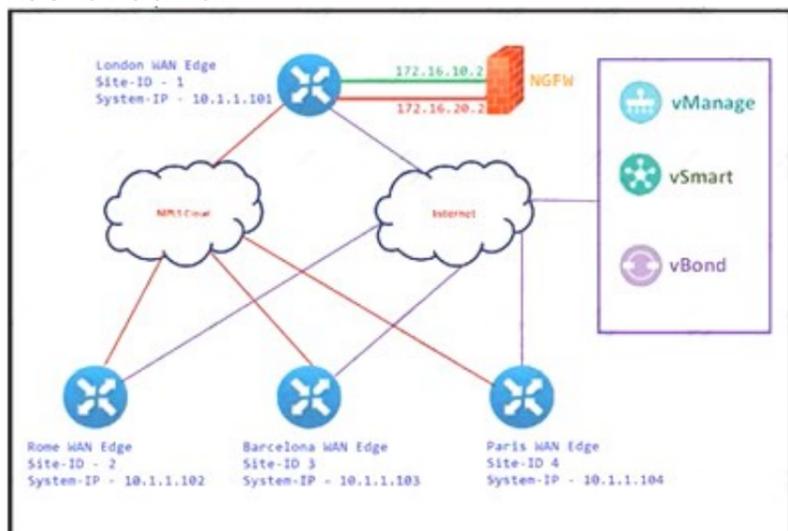
Which two image formats are supported for controller codes? (Choose two.)

- A. .nxos
- B. .qcow2
- C. .ova
- D. .bin
- E. Tgz

Answer: BC

NEW QUESTION 3

Refer to the exhibit.



The Cisco SD-VYAN is deployed using the default topology. The engineer v/ants to configure a service insertion policy such that all data traffic between Rome to Paris is forwarded through the NGFW located in London. Which configuration fulfills this requirement, assuming that the Service VPN ID is 1?

A)

○ London WAN Edge
 vpn 1
 service netsvc1 address 172.16.10.2
 service netsvc2 address 172.16.20.2

vSmart Policy
 policy
 lists
 site-list ROME
 site-id 2
 site-list PARIS
 site-id 4
 control-policy NGFW-SI
 sequence 1
 match route
 site-id ROME
 action accept
 set service netsvc1 vpn 1
 sequence 2
 match route
 site-id PARIS
 action accept
 set service netsvc2 vpn 1
 default-action accept
 |
 apply-policy
 site-list ROME
 control-policy NGFW-SI out
 |
 site-list PARIS
 control-policy NGFW-SI out

B)

○ London WAN Edge
 vpn 1
 service netsvc1 address 172.16.10.2
 service netsvc2 address 172.16.20.2

vSmart Policy
 policy
 lists
 site-list ROME
 site-id 2
 site-list PARIS
 site-id 4
 control-policy NGFW-SI
 sequence 1
 match route
 site-id ROME
 action accept
 sequence 2
 match route
 site-id PARIS
 action accept
 default-action accept
 |
 apply-policy
 site-list ROME control-policy NGFW-SI out

C)

○ ROME WAN Edge
 service FW address 10.1.1.101

PARIS WAN Edge
 service FW address 10.1.1.101

vSmart Policy
 policy
 lists
 site-list ROME
 site-id 2
 site-list PARIS
 site-id 4
 control-policy NGFW-SI
 sequence 1
 match route
 site-id ROME
 action accept
 set service netsvc1 vpn 1
 sequence 2
 match route
 site-id PARIS
 action accept
 set service netsvc2 vpn 1
 default-action accept
 |
 apply-policy
 site-list ROME
 control-policy NGFW-SI out
 |
 site-list PARIS
 control-policy NGFW-SI out

D)

```

○ ROME WAN Edge
service FW address 10.1.1.101

PARIS WAN Edge
service FW address 10.1.1.101

vSmart Policy
policy
lists
site-list ROME
site-id 2
site-list PARIS
site-id 4
control-policy NGFW-SI
sequence 1
match route
site-id ROME
action accept
sequence 2
match route
site-id PARIS
action accept
default-action accept
!
apply-policy
site-list ROME control-policy NGFW-SI out
    
```

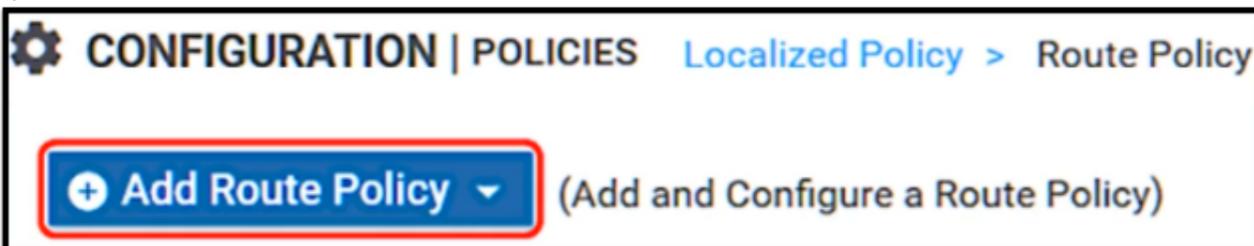
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

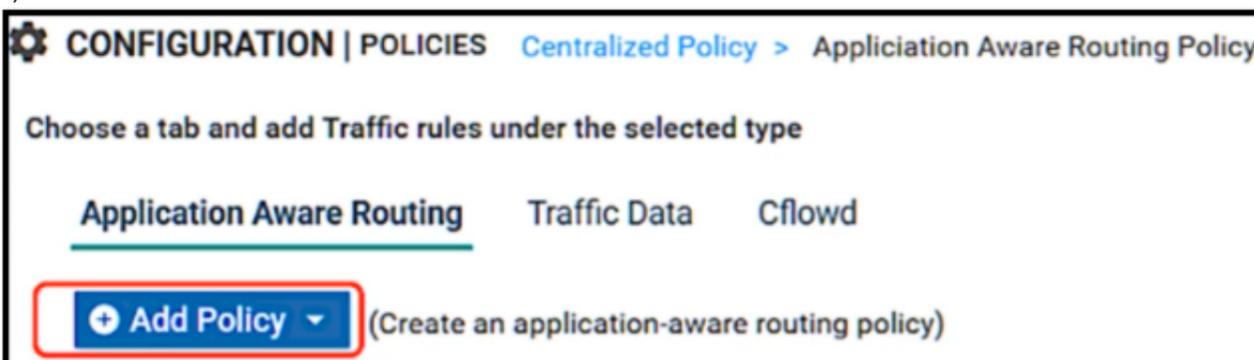
NEW QUESTION 4

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

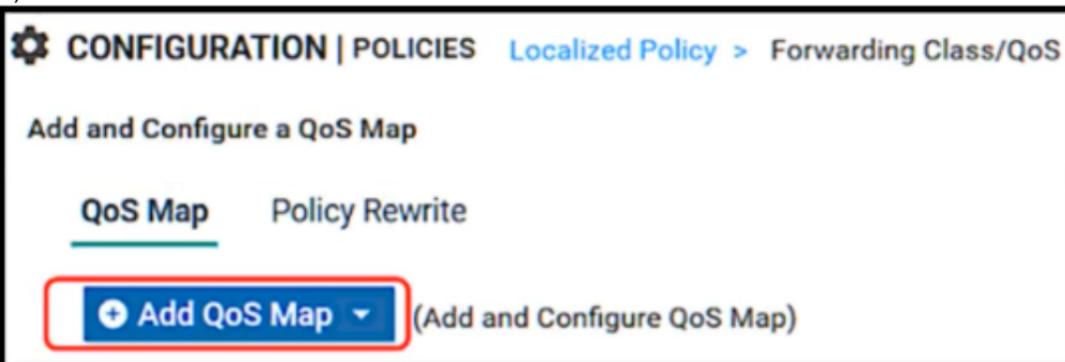
A)



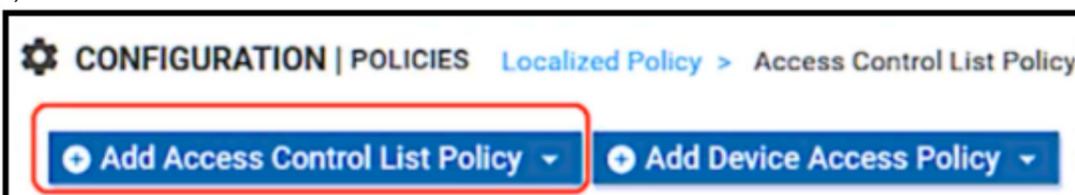
B)



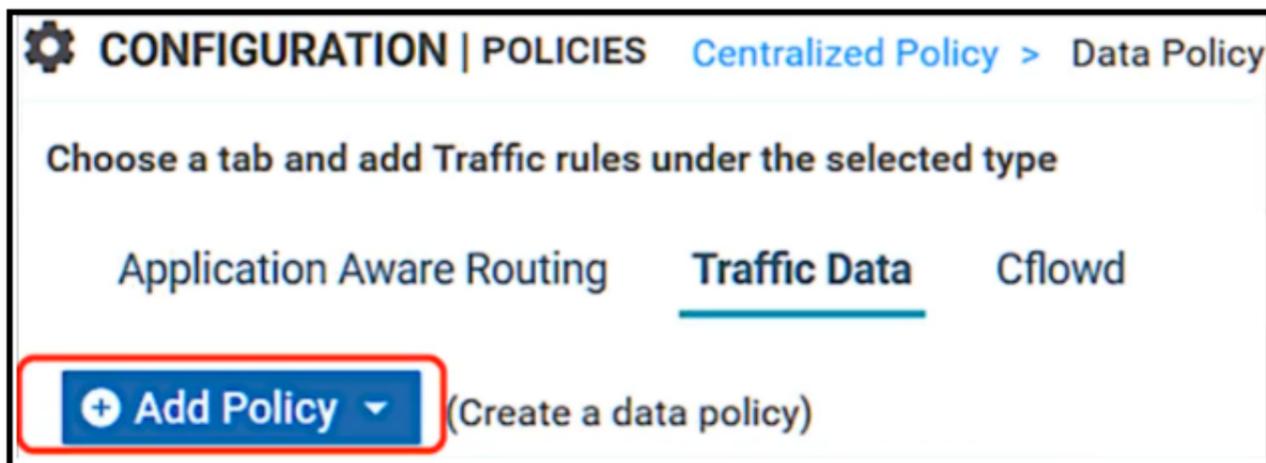
C)



D)



E)

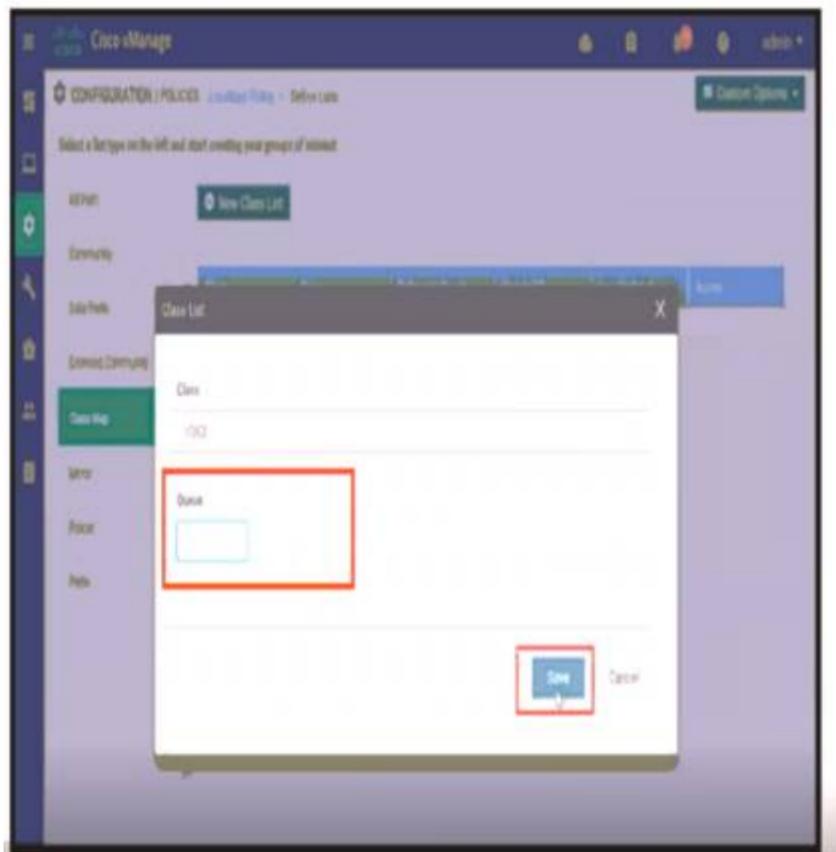


- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: AC

NEW QUESTION 5

Refer to the exhibit.



A network administrator is setting the queueing value for voice traffic for one of the WAN Edge routers using vManager GUI. Which queue value must be set to accomplish this task?

- A. 1
- B. 2
- C. 3

Answer: A

NEW QUESTION 6

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

A)

```

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

B)

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

C)

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

D)

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

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

Answer: C**NEW QUESTION 7**

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 8

What is the default value (in milliseconds) set for the poll interval in the BFD basic configuration?

- A. 300,000
- B. 600,000
- C. 900,000
- D. 1,200,000

Answer: B**Explanation:**

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Configuration/Templates/B

NEW QUESTION 9

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

- A. https://vmanage_IP_address/dataservice/system/device/{{model}}
- B. http://vmanage_IP_address/dataservice/system/device/{{model}}
- C. http://vmanage_IP_address/api-call/system/device/{{model}}
- D. https://vmanage_IP_address/api-call/system/device/{{model}}

Answer: A

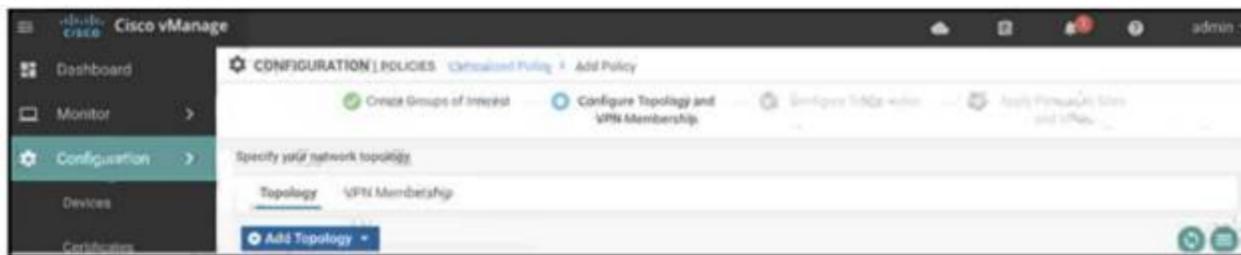
Explanation:

Display all available vEdge routers in the overlay network.

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

NEW QUESTION 10

Refer to the exhibit.



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

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

Answer: D

Explanation:

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

NEW QUESTION 10

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

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

Answer: D

NEW QUESTION 11

A network administrator configures SNMPV3 on a Cisco WAN Edge router from CL I for monitoring purposes. How many characters are supported by the snmp user username command?

- A. from 1 to 8
- B. from 1 to 16
- C. from 1 to 32
- D. from 1 to 48

Answer: C

NEW QUESTION 16

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

A)
Policy
class-map
class p1 queue 2

B)
qos-map Q_Map
qos-scheduler p1

C)

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

D)

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

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

Answer: D

NEW QUESTION 18

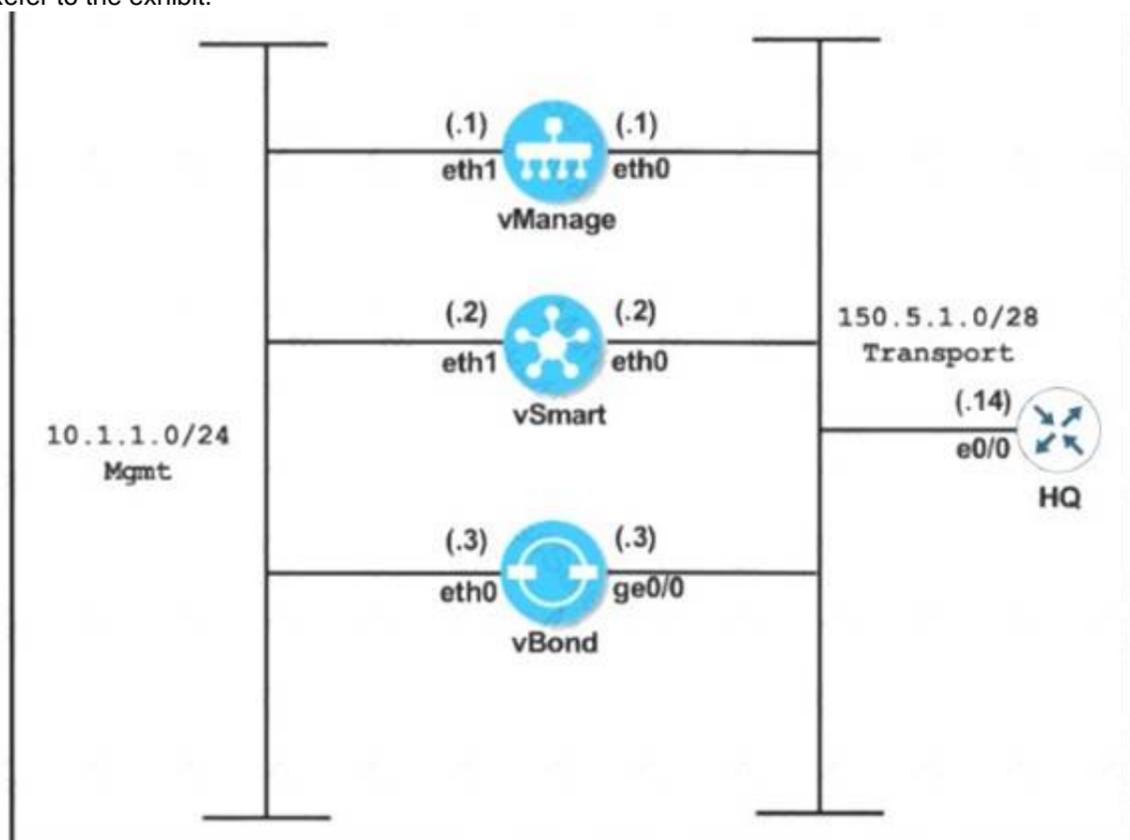
What are two benefits of installing Cisco SD-WAN controllers on cloud-hosted services? (Choose two.)

- A. utilizes well-known cloud services such as Azur
- B. AW
- C. and GCP
- D. accelerates Cisco SD-WAN deployment
- E. allows integration of the WAN Edge devices In the cloud
- F. installs the controllers in two cloud regions in a primary and backup setup
- G. automatically Implements zone-based firewalling on the controllers

Answer: BD

NEW QUESTION 21

Refer to the exhibit.



```

vManage
system
system-ip 10.10.10.101
host-name vManage
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface eth0
ip address 150.5.1.1/28
no shut
tunnel-interface
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit

vSmart
system
system-ip 10.10.10.102
host-name vSmart
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface eth0
ip address 150.5.1.2/28
no shut
tunnel-interface
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit

vBond
system
system-ip 10.10.10.103
host-name vBond
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface ge0/0
ip address 150.5.1.3/28
no shut
tunnel-interface
encapsulation ipsec
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit
    
```

An engineer is troubleshooting an issue where vManage and vSmart have a problem establishing a connection to vBond. Which action fixes the issue?

- A. Reconfigure the vbond command on the vBond as vbond 150.5.1.3 local
- B. Configure the tunnel interface on all three controllers with a color of transport
- C. Remove the encapsulation IPsec command under the tunnel interface of vBond.
- D. Configure encapsulation as IPsec under the tunnel interface of vManage and vSmart

Answer: A

Explanation:

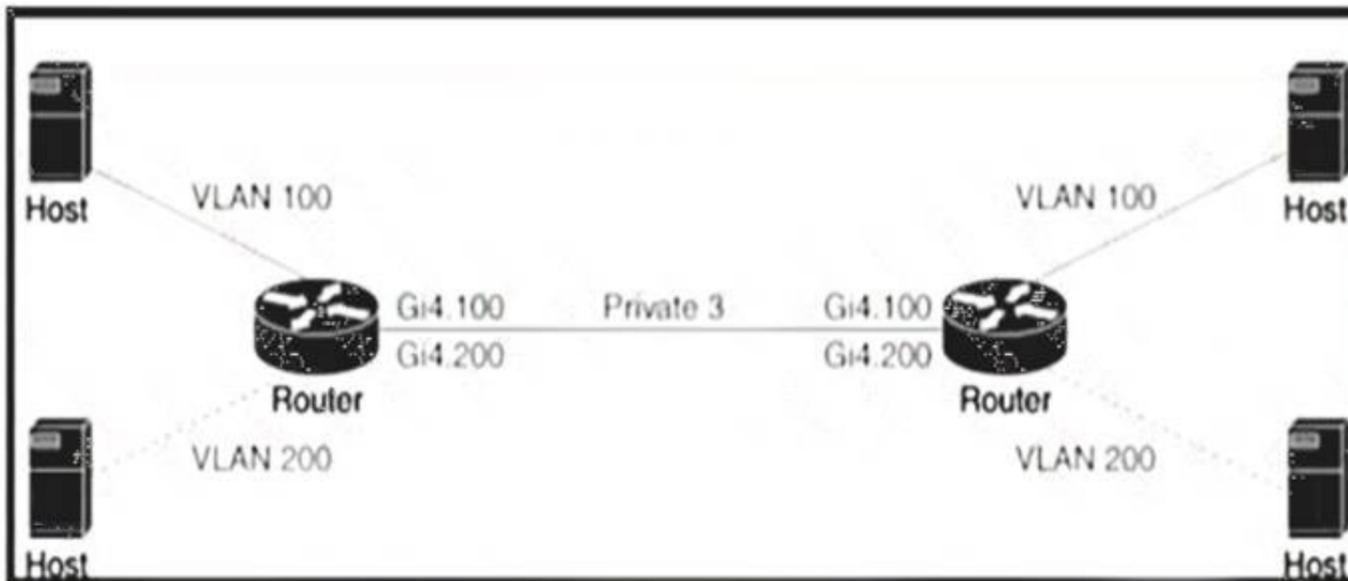
Configure the IP address of Cisco vBond Orchestrator. Cisco vBond Orchestrator's IP address must be a public IP address, to allow all Cisco vEdge devices in the overlay network to reach Cisco vBond Orchestrator.

```
vBond(config-system)#vbond ip-address local
```

In Releases 16.3 and later, the address can be an IPv4 or an IPv6 address. In earlier releases, it must be an IPv4 address. A vBond orchestrator is effectively a vEdge router that performs only the orchestrator functions. The local option designates the device to be Cisco vBond Orchestrator, not a vEdge router. Cisco vBond Orchestrator must run on a standalone virtual machine (VM) or hardware router; it cannot coexist in the same device as a software or hardware vEdge router.

NEW QUESTION 24

Refer to the exhibit



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

```

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

B)

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

C)

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

D)

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

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

Answer: C

NEW QUESTION 27

Which two virtualized environments are available for a company to install the controllers using the on-premises model? (Choose two)

- A. VMware vSphere ESXi
- B. VMware Workstation
- C. kernel-based virtual machine
- D. OpenStack
- E. Microsoft Hyper-V

Answer: AD

NEW QUESTION 32

An engineer configures an application-aware routing policy for a group of sites. The locations depend on public and private transports. The policy does not work as expected when one of the transports does not perform properly. This policy is configured:

```
policy
sla-class BULK_DATA
loss 20
latency 300
jitter 100
!
sla-class TRANSACTIONAL_DATA
loss 15
latency 50
jitter 100
!
sla-class REALTIME
loss 20
latency 100
jitter 30
!
app-route-policy VPN-10_MPLS_AND_INET_SITES
vpn-list VPN-10
sequence 1
match
dscp 46
!
action
backup-sla-preferred-color biz-internet
sla-class REALTIME preferred-color private1
!
!
sequence 11
match
dscp 34
!
action
backup-sla-preferred-color biz-internet
sla-class TRANSACTIONAL_DATA preferred-color private1
!
!
```

which configuration completes the policy so that it works for all locations?

A)

```
sla-class TRANSACTIONAL_DATA
loss 5
latency 50
jitter 100
!
sla-class REALTIME
loss 2
latency 100
jitter 30
!
```

B)

```
sla-class TRANSACTIONAL_DATA
loss 2
latency 100
jitter 30
!
sla-class REALTIME
loss 15
latency 100
jitter 100
!
```

C)

```
sla-class BULK_DATA
loss 10
latency 300
jitter 100
!
sla-class REALTIME
loss 2
latency 100
jitter 30
!
```

D)

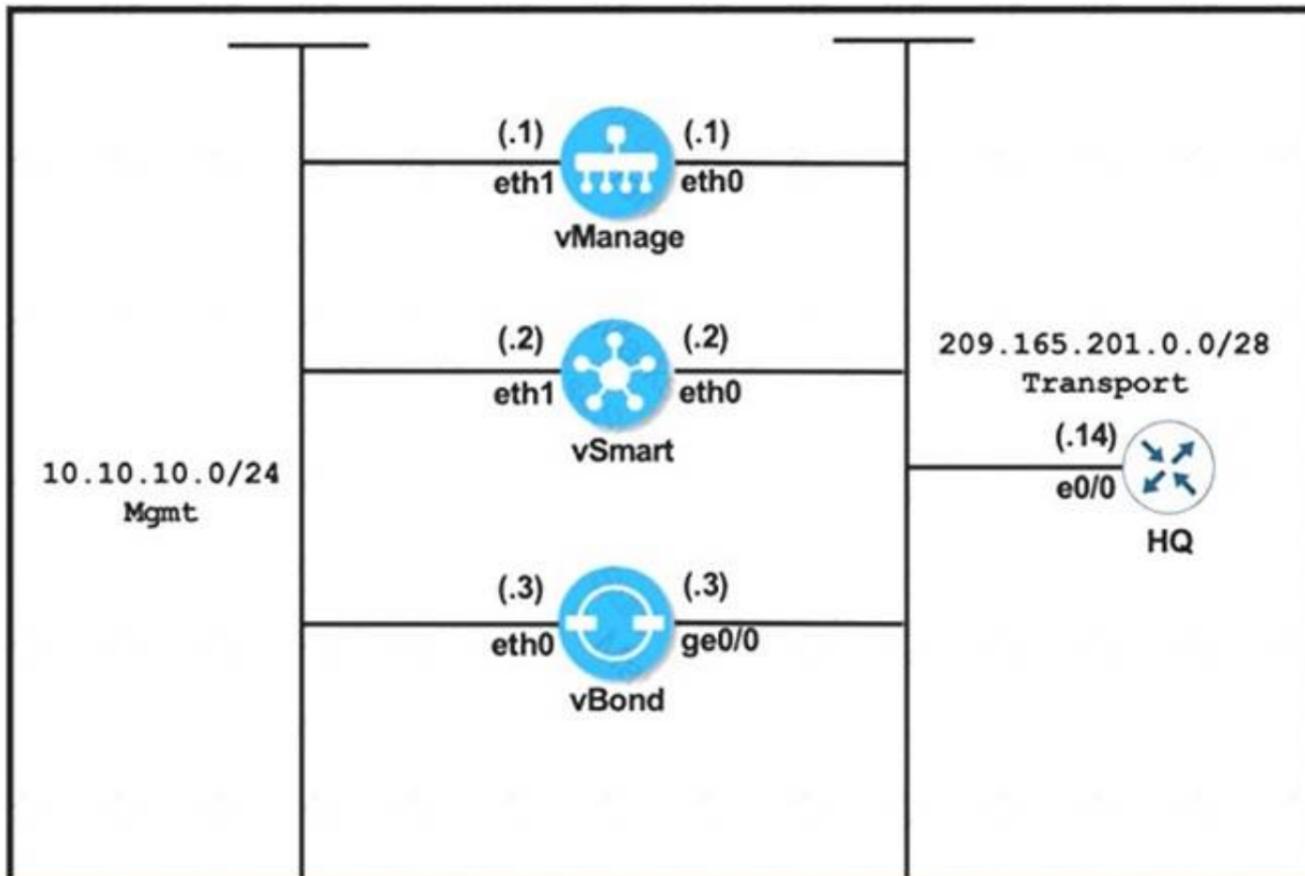
```
sla-class BULK_DATA
loss 15
latency 100
jitter 100
!
sla-class TRANSACTIONAL_DATA
loss 10
latency 300
jitter 100
!
```

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

Answer: A

NEW QUESTION 33

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 vipteta.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 35

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

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

Answer: C

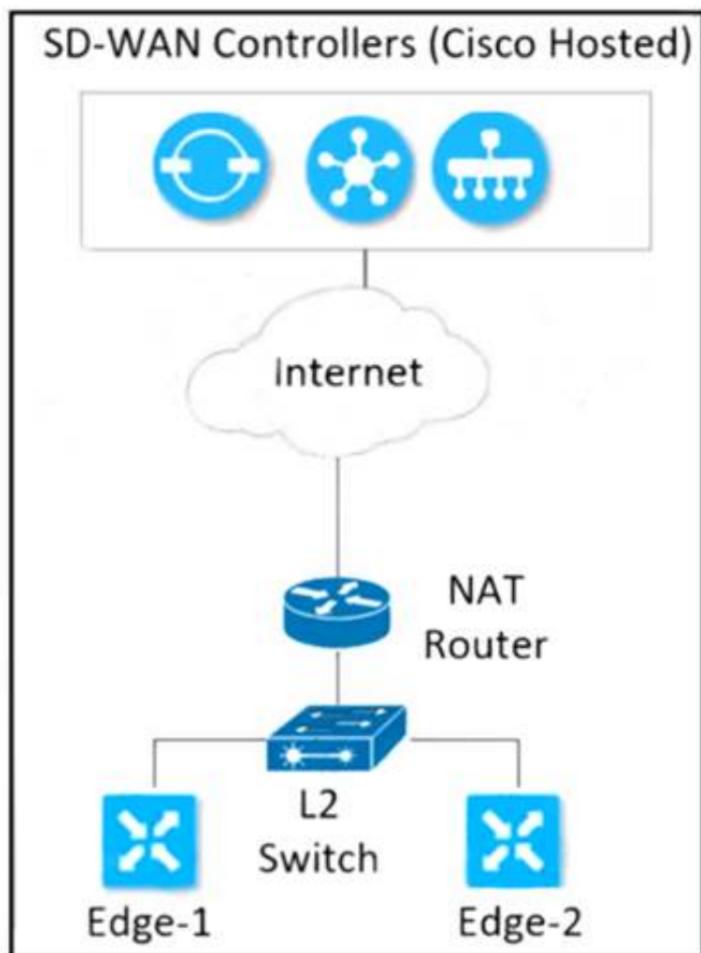
Explanation:

Runbook to Request and Install Cisco PKI Certificates

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

NEW QUESTION 36

Refer to the exhibit



Which configuration must the engineer use to form underlay connectivity for the Cisco SD-WAN network?

A)

```
R1
vpn 512
interface eth0
ip address 10.0.0.21/24
no shutdown
!
ip route 0.0.0.0/0 10.0.0.254
```

```
R2
vpn 512
interface eth0
ip address 10.0.0.2/24
no shutdown
!
ip route 0.0.0.0/0 10.0.0.254
```

B)

```
R1
vpn 10
interface ge0/2
ip address 10.10.10.9/29
no shutdown
!
ip route 0.0.0.0/0 10.10.10.11
```

```
R2
vpn 10
interface ge0/2
ip address 10.10.10.10/29
no shutdown
!
ip route 0.0.0.0/0 10.10.10.11
```

C)

```
R1
vpn 0
interface 10ge0/0
ip address 10.50.0.2/29
no shutdown
!
ip route 0.0.0.0/0 10.50.0.3
```

```
R2
vpn 0
interface 10ge0/0
ip address 10.50.0.1/29
no shutdown
!
ip route 0.0.0.0/0 10.50.0.3
```

D)

```
R1
vpn 0
interface ge0/0
ip address 10.50.0.2/30
tunnel-interface
!
ip route 0.0.0.0/0 10.50.0.4
```

```
R2
vpn 0
interface ge0/0
ip address 10.50.0.3/30
tunnel-interface
!
ip route 0.0.0.0/0 10.50.0.4
```

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

Answer: C

NEW QUESTION 39

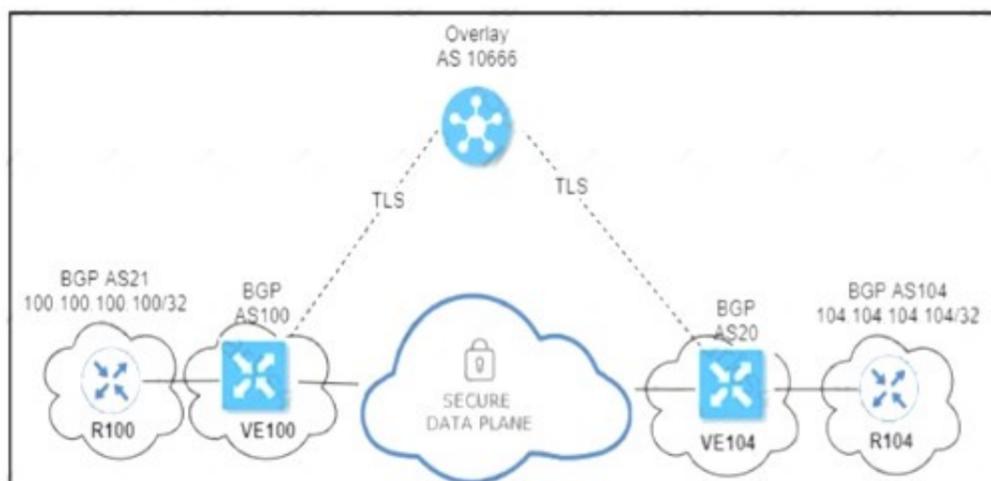
What are the two advantages of deploying cloud-based Cisco SD-WAN controllers? (Choose two.)

- 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 42

Refer to the exhibit.



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

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

Answer: A

NEW QUESTION 44

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

- A. RootCert
- B. Microsoft

- C. RADIUS
- D. VeriSign

Answer: A

NEW QUESTION 47

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

- A. System Status
- B. Troubleshooting
- C. Real Time
- D. Events

Answer: B

NEW QUESTION 49

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 50

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 55

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 56

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 61

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

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

Answer: C

NEW QUESTION 64

Refer to the exhibit



The network team must configure application-aware routing for the Service VPN 50.0.0.0/16. The SLA must prefer MPLS for video traffic but the remaining traffic must use a public network. What must be defined other than applications before the application-aware policy is created?

- A. SLA Class, Site VP
- B. Prefix
- C. Data Prefix, Site VPN TLOC
- D. Application, SLA VP
- E. Prefix
- F. Color, SLA Class, Site, VPN

Answer: A

NEW QUESTION 66

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 71

Refer to the exhibit

```
vManage#show control local-properties
personality                vmanage
sp-organization-name      Cisco
organization-name         Cisco
system-ip                  10.1.1.10
root-ca-chain-status       Installed
certificate-status         Installed
```

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

- A. Synchronize the WAN Edge list on vManage with controllers.
- B. Configure NTP on both controllers to establish a connection.
- C. Configure a valid system IP on the vBond controller.
- D. Configure a valid vBond IP on vManage.

Answer: D

NEW QUESTION 74

Which attributes are configured to uniquely Identify and represent a TLOC route?

- A. system IP address, link color, and encapsulation
- B. firewall, IPS, and application optimization
- C. site ID, tag, and VPN
- D. origin, originator, and preference

Answer: A

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Design-2018OCT.pdf>

NEW QUESTION 79

Refer to the exhibit

Timestamp	User	User IP	Message	Module	Feature	Device	Task ID
18 Dec 2020 ...	system	10.1.1.1	Uploaded root ca uaid list file on vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a-...
18 Dec 2020 ...	system	10.1.1.1	Transferred root ca uaid list file to vBond-d3aa12...	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 ca uaid list file on vBond-d3aa12f...	vmanage-roo...	vmanage-root-ca	10.3.3.3	d3aa12fd-b024-4246-899a-...
18 Dec 2020 ...	system	10.1.1.1	Installed root cert chain on vManage-6842d5cf-...	vmanage-roo...	vmanage-root-ca	10.1.1.1	6842d5cf-ce74-41a0-9ff5-...
18 Dec 2020 ...	system	10.1.1.1	Transferred root ca uaid list file to vBond-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-...

```
vManage# show certificate installed

Server certificate
-----

Certificate:
  Data:
    Version: 1 (0x0)
    Serial Number:
      d0:d1:f0:e0:63:52:c9:3a
    Signature Algorithm: sha256WithRSAEncryption
    Issuer: C=UK, ST=ENG, L=London, O=ABC, CN=SDWAN.lab
    Validity
      Not Before: Jul 30 19:42:30 2020 GMT
      Not After : Jul 30 19:42:30 2021 GMT
    Subject: C=US, ST=California, L=San Jose, OU=ABC,
O=vIPtela Inc, CN=vmanage-6842d5cf-ce74-41a0-9ff5-
10e810f9ddab-0.vm
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (2048 bit)
```

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

A)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

B)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

C)

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

D)

```

Step1: Generate the RootCA Certificate

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

Step2: Install the RootCA Certificate

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

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

Answer: C

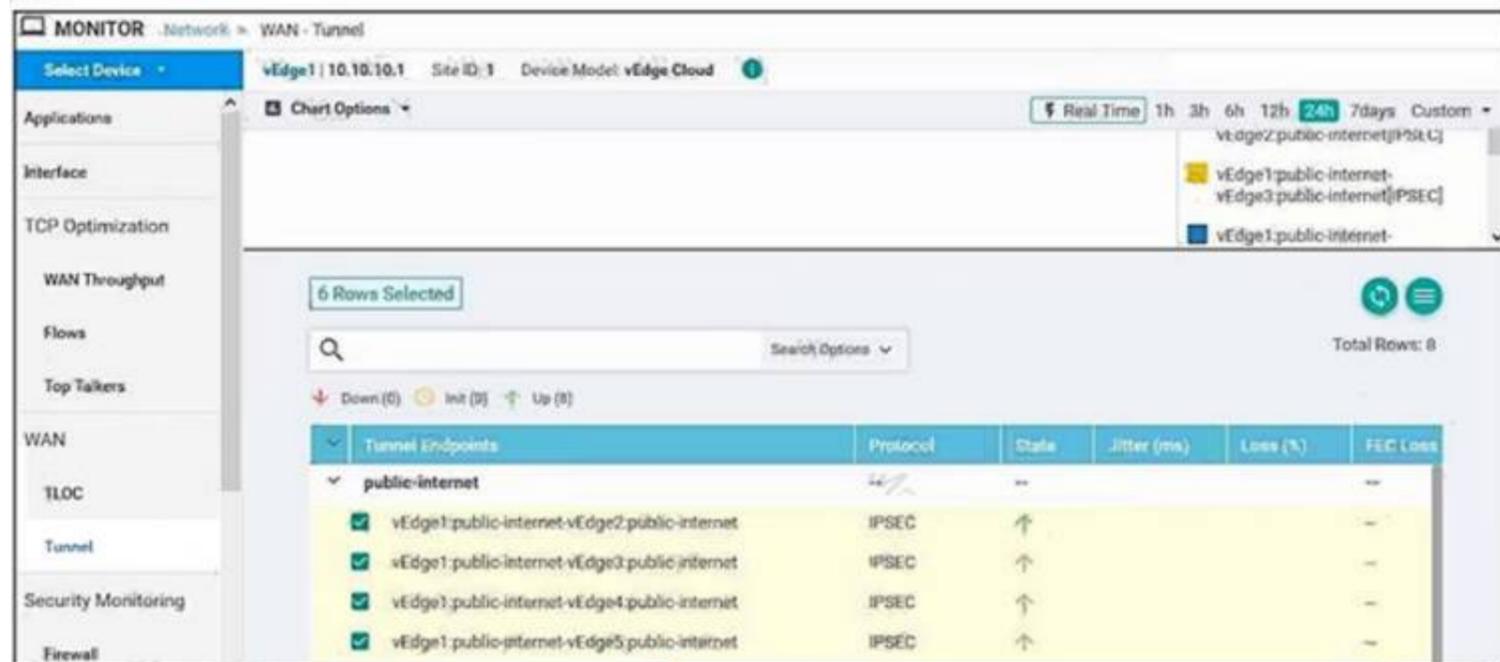
Explanation:

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

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

NEW QUESTION 81

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 82

An engineer is configuring the branch office with a 172.16.0.0/16 subnet to use DIA for Internet traffic. All other traffic must flow to the central site or branches using the MPLS circuit Which configuration meets the requirement?

A)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
 source-ip 172.16.0.0/16
 destination-ip 172.16.0.0/16
!
sequence 2
match
 source-data-prefix-list DIA
 action accept
 nat use-vpn 0
!
default-action accept
```

B)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
 source-ip 172.16.0.0/16
 action accept
!
sequence 2
match
 source-data-prefix-list DIA
 action accept
 nat use-vpn 0
!
default-action accept
```

C)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
 source-ip 172.16.0.0/16
 destination-ip 172.16.0.0/16
 action accept
!
sequence 2
match
 source-data-prefix-list DIA
 action accept
 nat use-vpn 0
!
default-action accept
```

D)

```
data-policy SDW_DIA
vpn-list VPN172
sequence 1
match
 source-ip 172.16.0.0/16
 destination-ip 172.16.0.0/16
!
sequence 2
match
 source-data-prefix-list DIA
 action accept
!
default-action accept
```

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

Answer: C

NEW QUESTION 84

Refer to the exhibit.

LOCAL	PEER REMOTE	PEER REPEAT	PEER SYSTEM IP / ERROR	SITE ID ERROR	DOMAIN ID COUNT	PEER PRIVATE IP / DOWNTIME	PEER PRIVATE PORT	PEER PUBLIC IP	PEER PUBLIC PORT
0 default	vsmart remote	tls state	1.1.1.3 DCONFAIL	100 NOERR	1 10001	100.1.1.3 2020-01-01T10:01:20+0000	23456	100.1.1.3	23456

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 87

What problem happens on a device with two serial numbers, a unique device identifier (UDI), and secure unique device identifier (SUDI) when an engineer provisions ISR 4000 by PnP using only a UDI?

- A. It encounters spanning tree issues
- B. It faces interface buffer overflow patterns
- C. It encounters redirection problems.
- D. It encounters memory overload problems

Answer: D

NEW QUESTION 92

What is an advantage of using auto mode versus static mode of power allocation when an access point is connected to a PoE switch port?

- A. It detects the device is a powered device
- B. All four pairs of the cable are used
- C. Power policing is enabled at the same time
- D. The default level is used for the access point

Answer: D

Explanation:

Use the auto setting on any PoE port. The auto mode is the default setting.

https://www.cisco.com/en/US/docs/switches/lan/catalyst3850/software/release/3.2_0_se/multibook/configuratio

NEW QUESTION 94

How must the application-aware enterprise firewall policies be applied within the same WAN Edge router?

- A. within and between zones
- B. between two VPN tunnels
- C. within zone pair
- D. between two VRFs

Answer: C

NEW QUESTION 96

Which protocol is used between redundant vSmart controllers to establish a permanent communication channel?

- A. IPsec
- B. HTTPs
- C. DTLS
- D. SSL

Answer: C

NEW QUESTION 98

An engineer must avoid routing loops on the SD-WAN fabric for routes advertised between data center sites. Which BGP loop prevention attribute must be configured on the routers to meet this requirement?

- A. same OMP overlay-as on WAN Edge routers of all data centers
- B. static routing on all WAN Edge routers instead of BGP
- C. same BGP AS between all WAN Edge routers and CE routers
- D. same BGP AS between all CE and PE routers

Answer: A

NEW QUESTION 102

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

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

Answer: B

NEW QUESTION 103

In a Cisco SD-WAN network, which component is responsible for distributing route and policy information via the OMP?

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

Answer: B

Explanation:

The Cisco vSmart Controller maintains a centralized route table that stores the route information, called OMP routes, that it learns from the vEdge routers and from any other Cisco vSmart Controllers in the Cisco SD-WAN overlay network. Based on the configured policy, the Cisco vSmart Controller shares this route information with the Cisco vEdge network devices in the network so that they can communicate with each other.

NEW QUESTION 104

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 106

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

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

Answer: CD

NEW QUESTION 110

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 113

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 118

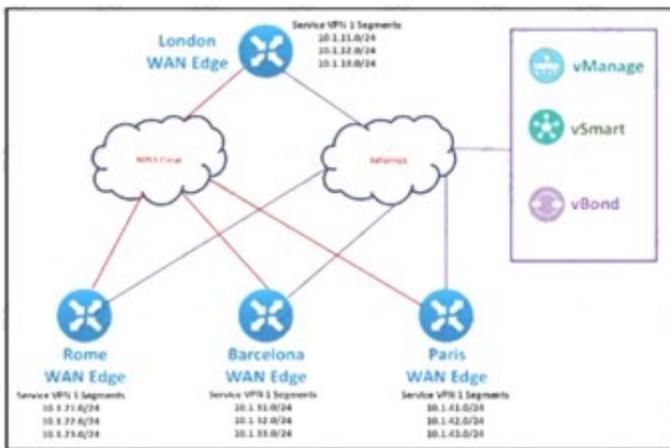
Which controller is excluded from the process of checking against the authorized, allowed list?

- A. vBond
- B. PnP
- C. vSmart
- D. vManage

Answer: A

NEW QUESTION 119

Refer to the exhibit.



The SD-WAN network is configured with a default full-mesh topology. The SD-WAN engineer wants the Barcelona WAN Edge to use MPLS TLOC as the preferred TLOC when communicating with Rome site. Which configuration must the engineer use to create a list to select MPLS color toward the Rome TLOC?

A)

Add Mesh Region

Name: Partial_Mesh

Description: Partial_Mesh

VPN List: ALL

Mesh Region Name: North

B)

Add Mesh Region

Name: Partial_Mesh

Description: Partial_Mesh

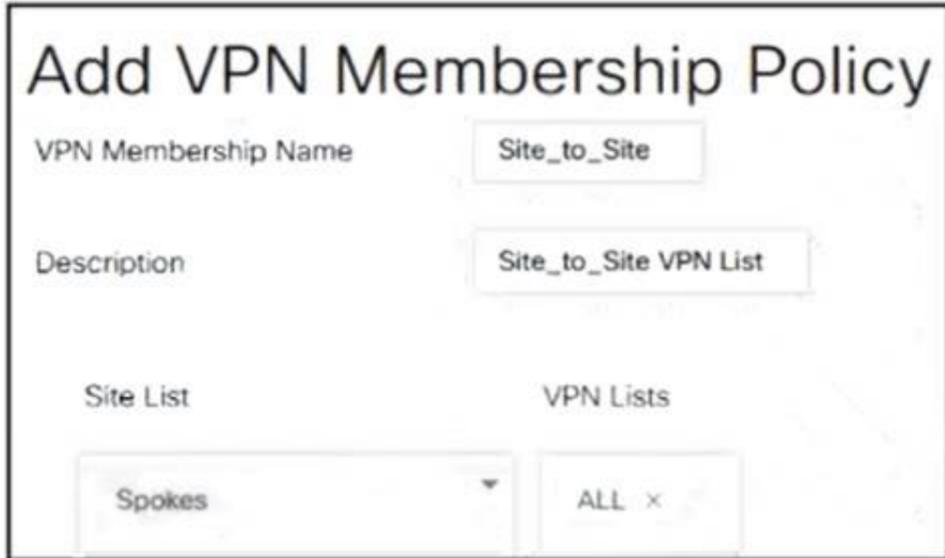
VPN List: ALL

Mesh Region Name: North

C)



D)



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

Answer: C

NEW QUESTION 124

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 127

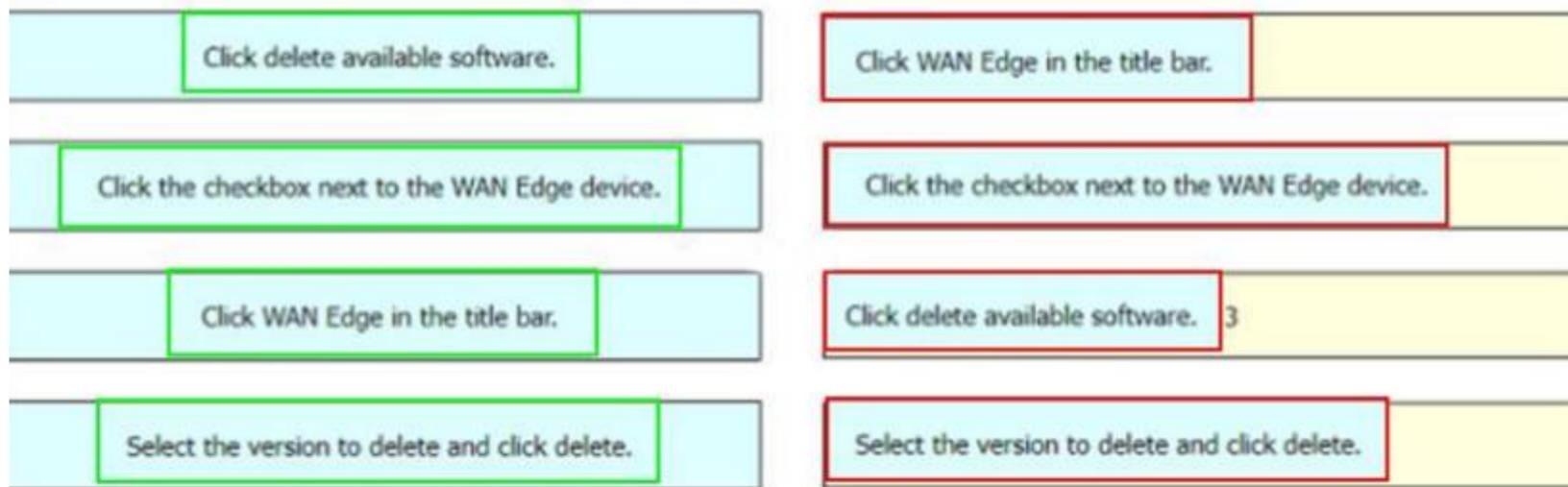
Drag and drop the steps from the left Into the order on the right to delete a software image for a WAN Edge router starting with Maintenance > Software Upgrade > Device list on vManage.

Click delete available software.	step 1
Click the checkbox next to the WAN Edge device.	step 2
Click WAN Edge in the title bar.	step 3
Select the version to delete and click delete.	step 4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 132

What is the threshold to generate a warning alert about CPU or memory usage on a WAN Edge router?

- A. 70 to 85 percent
- B. 70 to 90 percent
- C. 75 to 85 percent
- D. 75 to 90 percent

Answer: C

NEW QUESTION 137

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 140

How is an event monitored and reported for an individual device in the overlay network at site ID:S4300T6E43F36?

- A. The device sends event notifications to vManage.
- B. The device sends notifications to vSmart that sends them to vManage.
- C. The device sends a critical alarm of events to vManage.
- D. The device sends a critical alarm to vSmart that sends it to vManage.

Answer: A

NEW QUESTION 143

An engineer is adding a tenant with location JD 306432373 in vManage. What is the maximum number of alphanumeric characters that are accepted in the tenant name field?

- A. 64
- B. 128
- C. 256
- D. 8

Answer: B

Explanation:

In the Add Tenant window:

1. Enter a name for the tenant. It can be up to 128 characters and can contain only alphanumeric characters.

NEW QUESTION 145

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

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

Answer: C

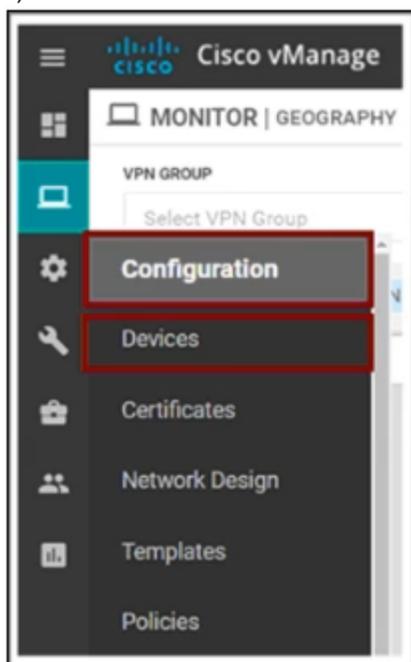
Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.1/vManage_NMS_Product_

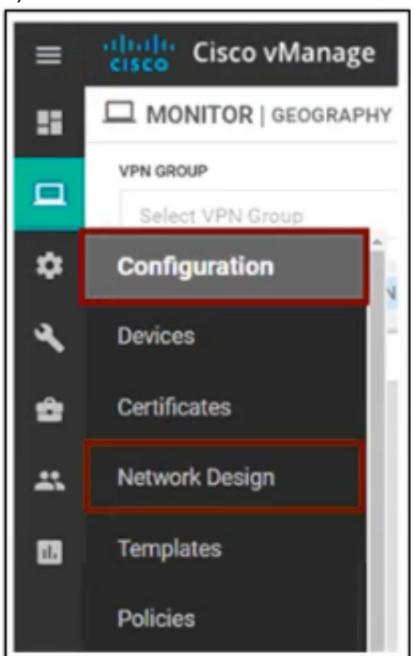
NEW QUESTION 148

The Cisco SD-WAN engineer is configuring service chaining for a next-generation firewall located at the headquarters. Which configuration creates the service?

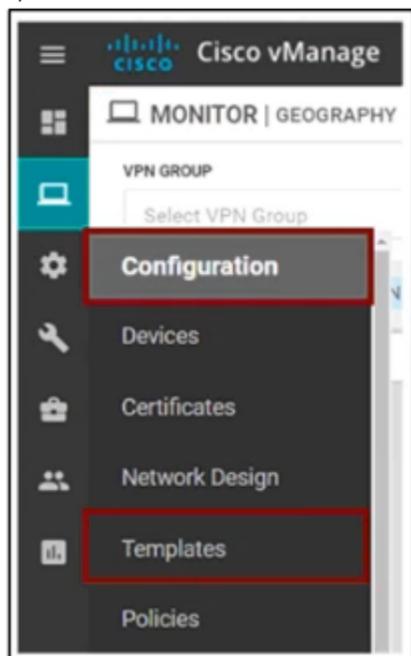
A)



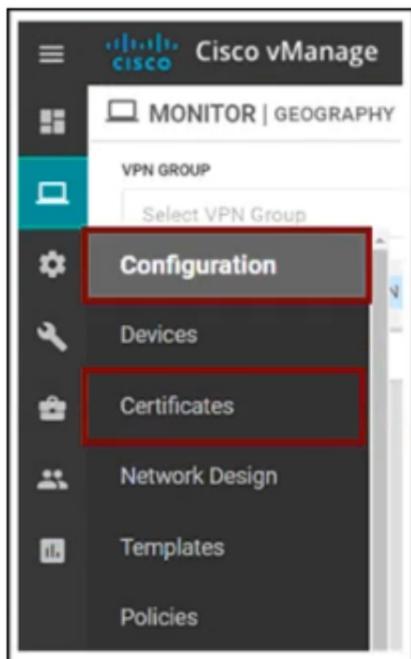
B)



C)



D)



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

Answer: C

NEW QUESTION 153

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 156

An engineer is troubleshooting a vEdge router and identifies a “DCONFAIL – DTLS connection failure” message. What is the problem?

- A. certificate mismatch
- B. organization mismatch
- C. memory issue
- D. connectivity issue

Answer: D

Explanation:

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

NEW QUESTION 158

A customer has MPLS and Internet as the TLOC colors An engineer must configure conrolJlers with the Internet and not with MPLS Which configuration achieves this requirement on vManage?

- A)


```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color mpls
```
- B)


```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color public-internet
```
- C)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color biz-internet
```

D)

```
vpn 0
interface eth1
ip address 10.50.0.1/24
tunnel-interface
color default
```

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

Answer: B**NEW QUESTION 159**

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 160

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

NEW QUESTION 161

Refer to the exhibit.

```
policy
  policer ccmp
    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 ccmp
  !
  !
  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 166

Which alarm setting is configured to monitor serious events that affect but do not shut down, the operation of a network function?

- A. Minor
- B. Major
- C. Medium
- D. Critical

Answer: B

NEW QUESTION 167

How should the IP addresses be assigned for all members of a Cisco vManage cluster located in the same data center?

- A. in the same subnet
- B. in overlapping IPs
- C. in each controller with a /32 subnet
- D. in different subnets

Answer: A

NEW QUESTION 168

What is a benefit of the application aware firewall feature in the Cisco SD-WAN solution?

- A. application monitoring
- B. application malware protection
- C. application visibility
- D. control policy enforcement

Answer: C

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=242>

The Application Firewall inspects and blocks traffic based on applications or application-family. This application-aware firewall feature provides the following benefits:

- Application visibility and granular control

NEW QUESTION 171

Which Cisco SD-WAN component the initial communication between WAN Edge devices to join the fabric?

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

Answer: D

Explanation:

The Cisco vBond Orchestrator orchestrates the initial control connection between Cisco vSmart Controllers and vEdge routers. It creates DTLS tunnels to the Cisco vSmart Controllers and vEdge routers to authenticate each node that is requesting control plane connectivity. This authentication

NEW QUESTION 176

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 180

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 183

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:

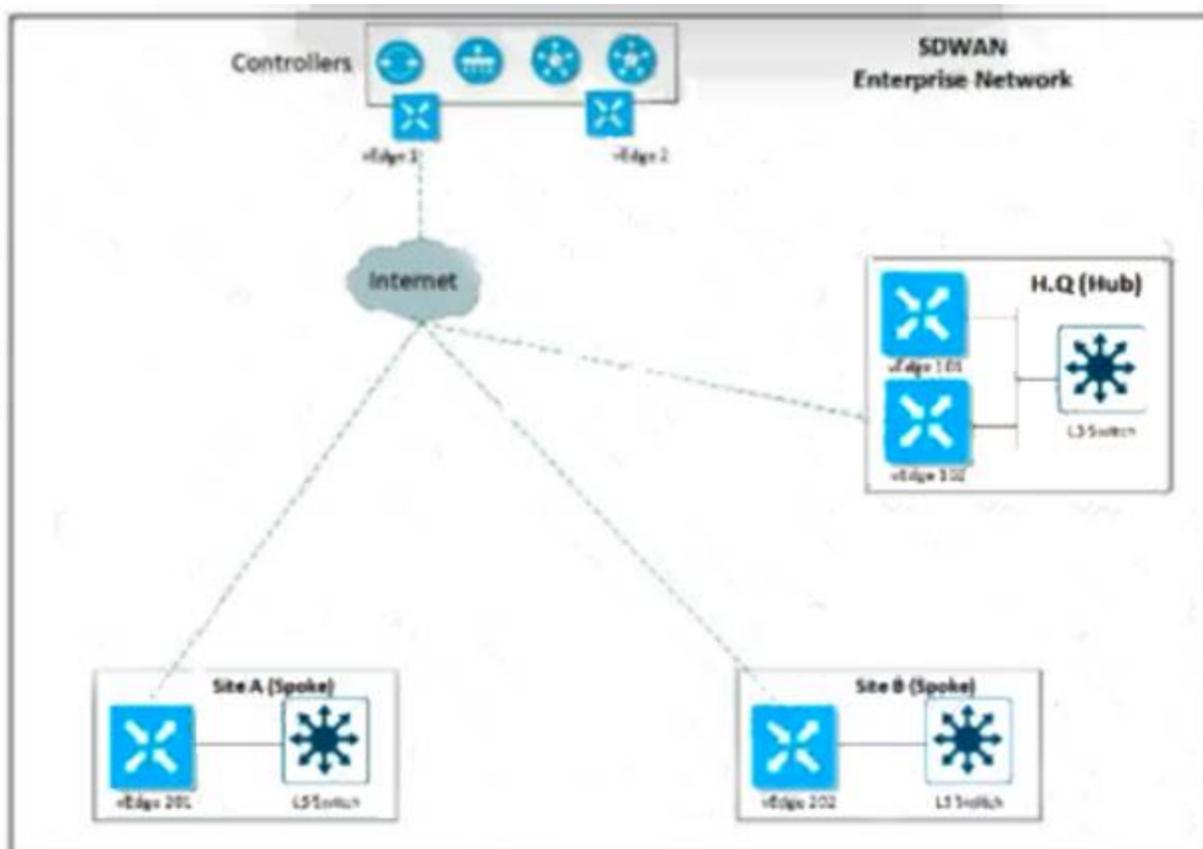
<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/config-cmd.html#wp386725031>

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 188

Refer to the exhibit



An engineer must configure a QoS policy between the hub and site A (spoke) over a standard internet circuit where traffic shaping is adjusted automatically based on available bandwidth. Which configuration meets the requirement?

```

○ Hub
sdwan
interface GigabitEthernet1
 qos-adaptive
  period 90
  downstream 8000
  downstream range 6000 10000
  upstream 8000
  upstream range 4000 16000
 exit
 tunnel-interface
  encapsulation ipsec weight 1
  color public-Internet
  no last-resort-circuit
  vmanage-connection-preference 5
  allow-service all
  
```

```

○ Site A (Spoke)
sdwan
interface GigabitEthernet1
 qos-adaptive
  period 40
  downstream 10000
  downstream range 8000 12000
  upstream 9000
  upstream range 5000 16000
 exit
 tunnel-interface
  encapsulation ipsec weight 1
  color mpls
  no last-resort-circuit
  vmanage-connection-preference 5
  allow-service all
  
```

```

○ Hub
sdwan
interface GigabitEthernet1
 qos-adaptive
  period 90
  downstream 8000
  downstream range 6000 10000
  upstream 8000
  upstream range 4000 16000
 exit
 tunnel-interface
  encapsulation ipsec weight 1
  color public-Internet
  no last-resort-circuit
  vmanage-connection-preference 5
  allow-service all
  
```

```

○ Site A (Spoke)
sdwan
interface GigabitEthernet1
 qos-adaptive
  period 90
  downstream 8000
  downstream range 6000 10000
  upstream 8000
  upstream range 4000 16000
 exit
 tunnel-interface
  encapsulation ipsec weight 1
  color public-Internet
  no last-resort-circuit
  vmanage-connection-preference 5
  allow-service all
  
```

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

Answer: D

NEW QUESTION 190

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 195

An enterprise is continuously adding new sites to its Cisco SD-WAN network. It must configure any cached routes flushed when OMP peers have lost adjacency

Which configuration allows the cached OMP routes to be flushed after every 24 hours from its routing table?

A)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On	<input type="radio"/> Off
Overlay AS Number	24	
Graceful Restart Timer (seconds)	43200	
Number of Paths Advertised per Prefix	4	
ECMP Limit	4	
Shutdown	<input type="radio"/> Yes	<input checked="" type="radio"/> No

B)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On	<input type="radio"/> Off
Overlay AS Number	1	
Graceful Restart Timer (seconds)	86400	
Number of Paths Advertised per Prefix	3	
ECMP Limit	4	
Shutdown	<input type="radio"/> Yes	<input checked="" type="radio"/> No

C)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On	<input type="radio"/> Off
Overlay AS Number	24	
Graceful Restart Timer (seconds)	600000	
Number of Paths Advertised per Prefix	2	
ECMP Limit	2	
Shutdown	<input type="radio"/> Yes	<input checked="" type="radio"/> No

D)

Basic Configuration	Timers	Advertise
Graceful Restart for OMP	<input checked="" type="radio"/> On	<input type="radio"/> Off
Overlay AS Number	24	
Graceful Restart Timer (seconds)	43200	
Number of Paths Advertised per Prefix	2	
ECMP Limit	2	
Shutdown	<input type="radio"/> Yes	<input checked="" type="radio"/> No

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

Answer: B

NEW QUESTION 196

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

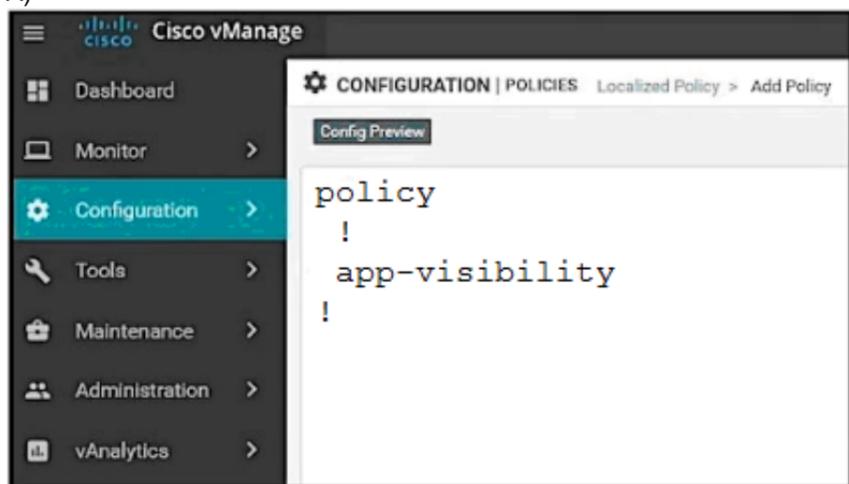
- A. no system logging disk enable
- B. no system logging disk local
- C. system logging disk disable
- D. system logging server remote

Answer: A

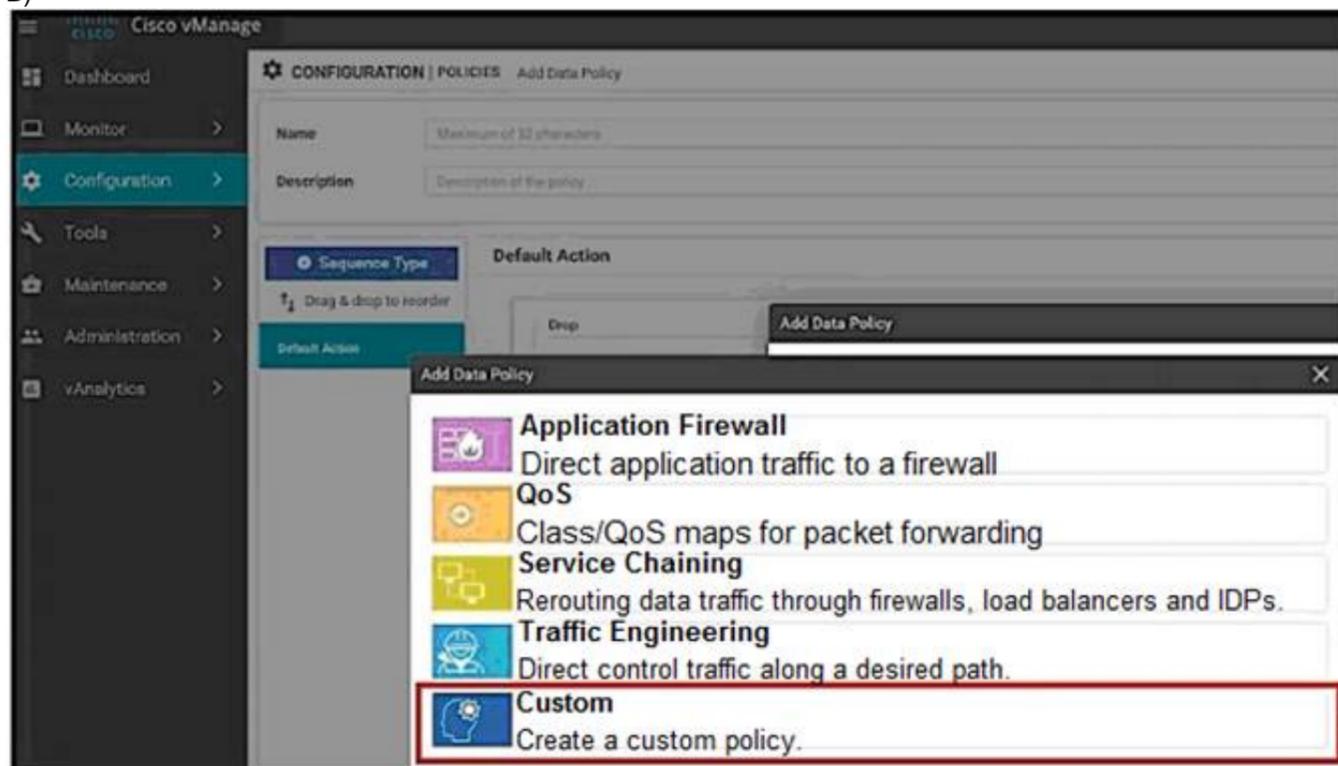
NEW QUESTION 199

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

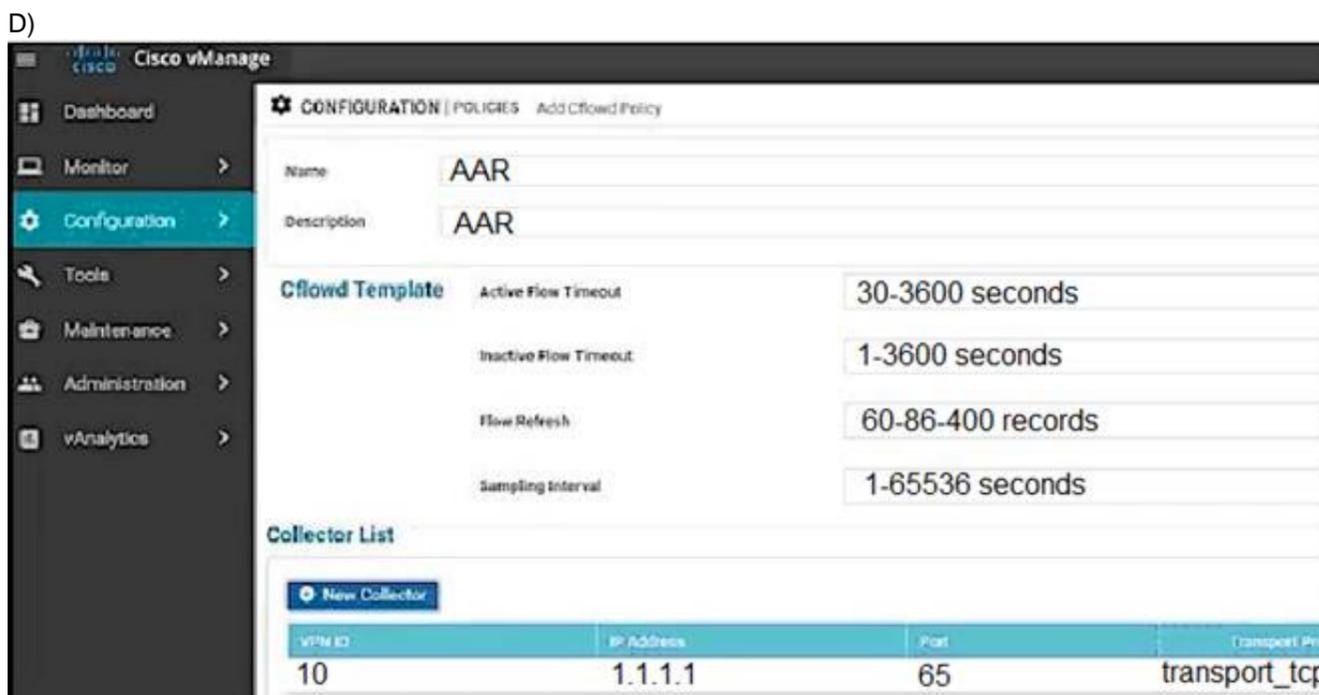
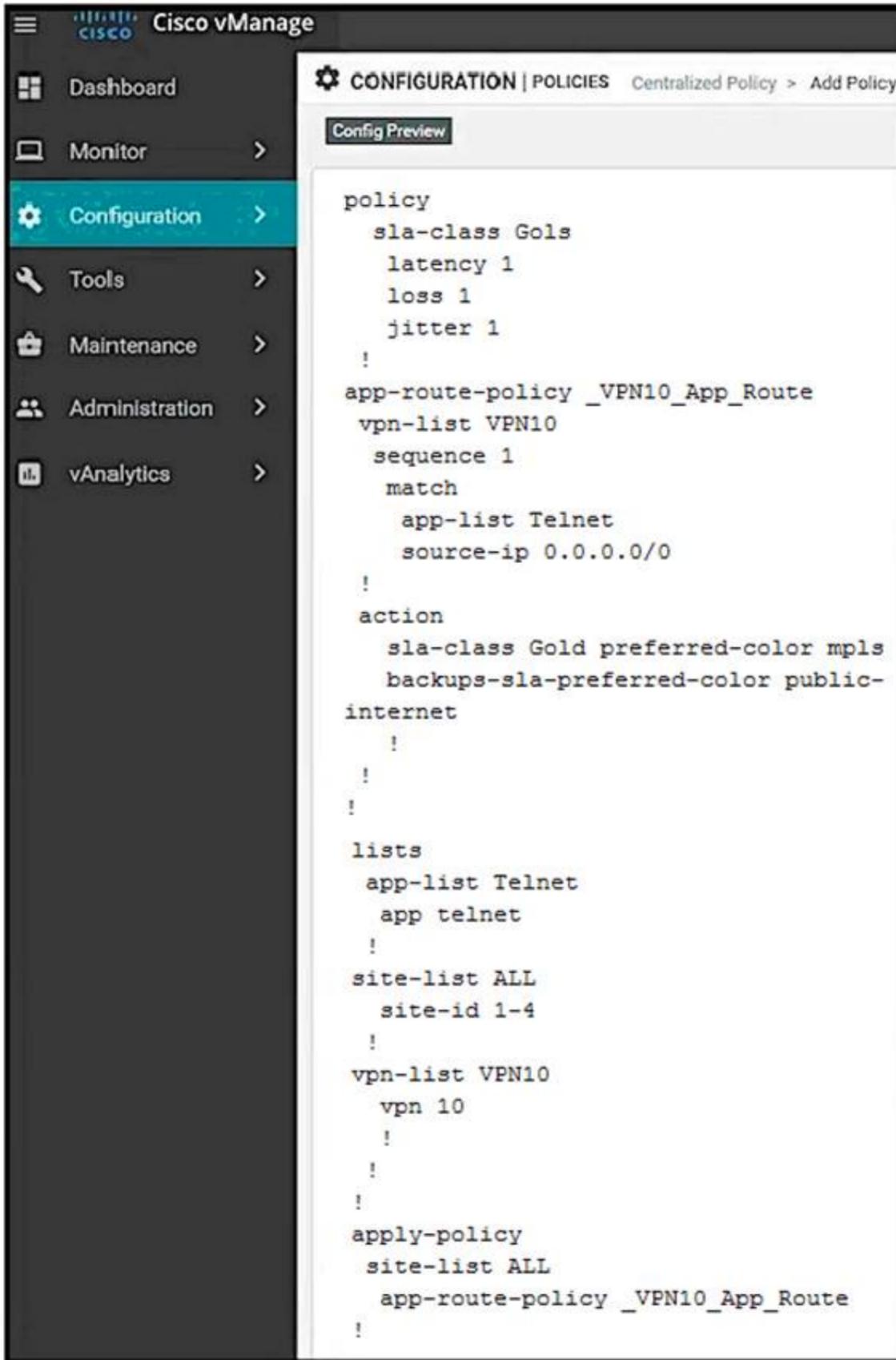
A)



B)



C)



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

Answer: D

NEW QUESTION 201

Refer to the exhibit

```
vpn 1
service netsvc1 interface ipsec1

from-vsmart data-policy _1_ServiceIsertionIPSec
direction from-service
vpn-list 1
sequence 1
match
destination-ip 1.1.1.1/32
action accept
set
service netsvc1
default-action accept
from-vsmart lists vpn-list 1
vpn 1
```

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

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

Answer: B

Explanation:

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

NEW QUESTION 204

An administrator must configure an ACL for traffic coming in from the service-side VPN on a specific WAN device with circuit ID 391897770. Which policy must be used to configure this ACL?

- A. local data policy
- B. central data policy
- C. app-aware policy
- D. central control policy

Answer: A

Explanation:

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

NEW QUESTION 209

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 211

Which policy is configured to ensure that a voice packet is always sent on the link with less than a 50 msec delay?

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

Answer: C

NEW QUESTION 215

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

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

D. vManage

Answer: D

NEW QUESTION 220

A network administrator is creating an OMP feature template from the vManage GUI to be applied to WAN edge routers. Which configuration attribute will avoid the redistribution of the routes back into the OMP from the LAN side?

- A. configure "Number of Paths Advertised per Prefix"
- B. configure "Overlay AS Number"
- C. configure "Send Backup Paths"
- D. configure "ECMP limit"

Answer: B

Explanation:

If you configure the same **overlay AS number** on multiple vEdge routers in the overlay network, all these routers are considered to be part of the same AS, and as a result, they do not forward any routes that contain the overlay AS number. This mechanism is an additional technique for **preventing BGP routing loops** in the network.

NEW QUESTION 225

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

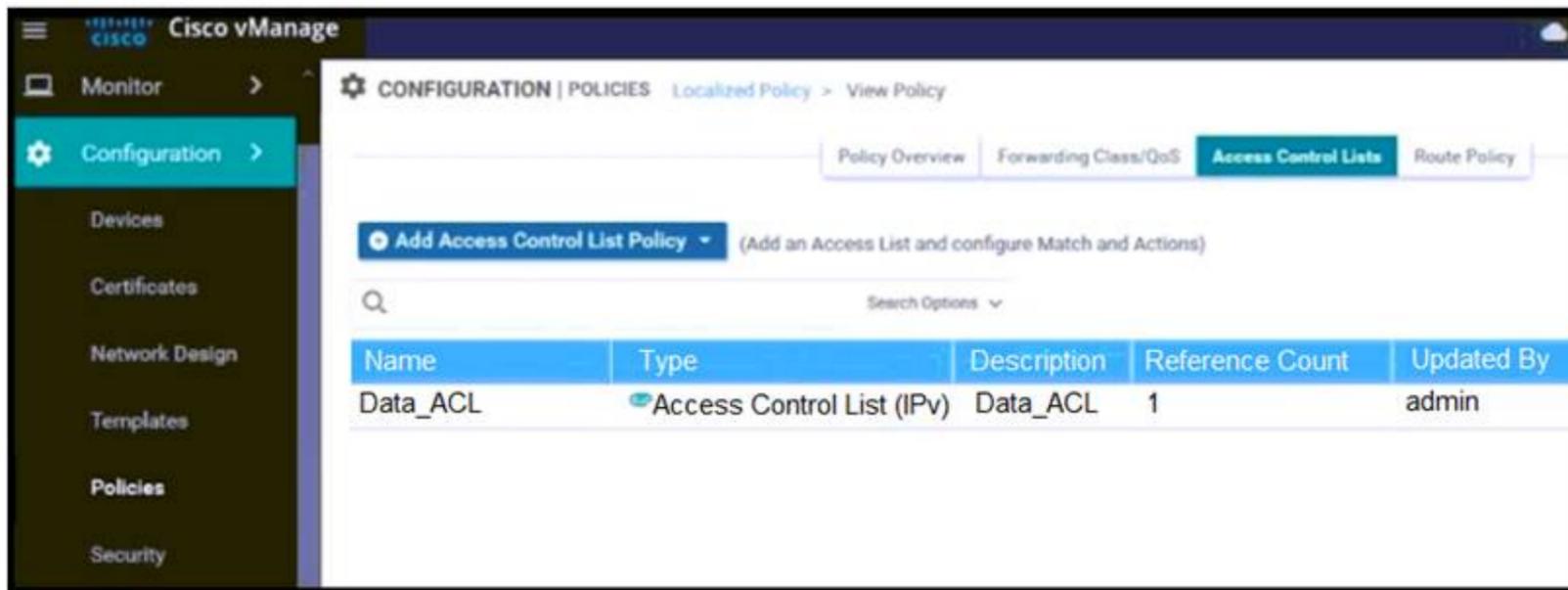
Explanation:

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 229

Refer to the exhibit.



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

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

Answer: C

NEW QUESTION 232

For data plane resiliency, what does the Cisco SD-WAN software implement?

- A. BFD
- B. establishing affinity between vSmart controllers and WAN Edge routers
- C. multiple vBond orchestrators
- D. OMP

Answer: A

Explanation:

NEW QUESTION 236

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

Answer: A

NEW QUESTION 237

A customer must upgrade the cisco SD-WAN devices and controllers from version 19.2 to version 20.3. The devices include WAN Edge cloud, vManage, vSmart, and vBond. Which types of image types of image files are needed for this upgrade?

- A. one file for vManage and one file for all other devices with extension tar.gz
- B. one file for vManage, one for vSmart and one for vBond + WAN Edge Cloud with extension.bin
- C. one file for vManaga, one for vSmart and one for vBond + WAN Edge Cloud with extension tar.gz
- D. one file for vManaga and one file for all other devices with extension .bin

Answer: C

Explanation:

<https://software.cisco.com/download/home/286320995/type/286321394/release/20.3.3.1>

NEW QUESTION 240

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

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

Answer: BD

Explanation:

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

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

https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco_Cloud_onRamp_for_IaaS_AWS_Versio

NEW QUESTION 242

How is the scalability of the vManage increased in Cisco SD-WAN Fabric?

- A. Increase licensing on the vManage
- B. Deploy multiple vManage controllers in a cluster
- C. Deploy more than one vManage controllers on different physical server.
- D. Increase the bandwidth of the WAN link connected to the vManage

Answer: B

NEW QUESTION 244

Which VPN must be present on at least one interface to install Cisco vManage and integrate it with WAN Edge devices in an overlay network site ID:S4307T7E78F29?

- A. VPN 512
- B. any VPN number selected
- C. services VPN range 0-511
- D. VPNO

Answer: D

NEW QUESTION 249

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 252

In which Cisco SD-WAN deployment scenario does Cisco Umbrella SIG deliver the most value?

- A. when a centralized Internet breakout solution is implemented
- B. when resource-intensive security operations are offloaded from entry-level WAN Edge devices
- C. when the identity of several WAN Edge devices is verified throughout the network throughout the network

Answer: B

NEW QUESTION 256

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

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

Answer: B

NEW QUESTION 258

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 260

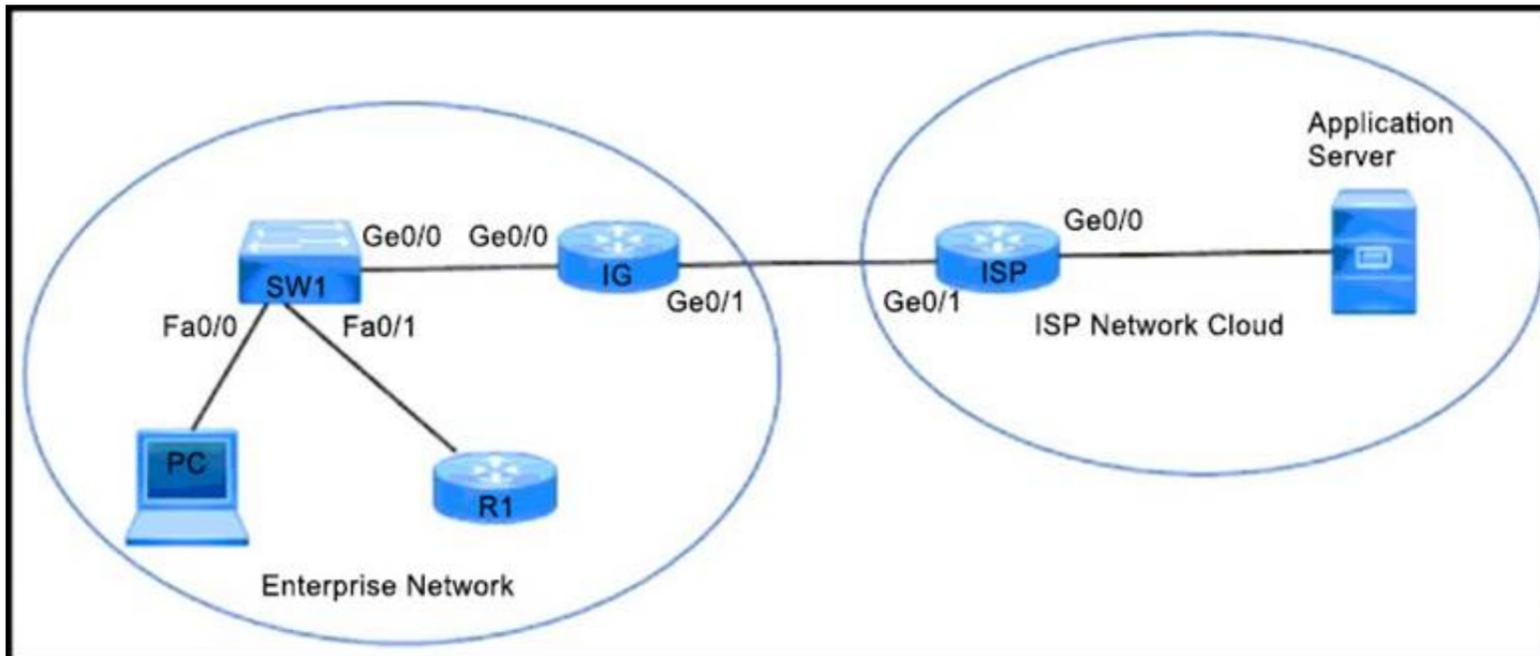
Which VManage dashboard is used to monitor the next-hop reachability between two devices traversing through OMP for a service VPN?

- A. Troubleshooting > App Route Visualization
- B. Troubleshooting > Tunnel Health
- C. Troubleshooting > Simulate Flows
- D. Troubleshooting > Packet Capture

Answer: C

NEW QUESTION 263

Refer to the exhibit.



An enterprise network is connected with an ISP network on an 80 Mbps bandwidth link. The network operation team observes 100 Mbps traffic on the 1Gig-ISP link during peak hours. Which configuration provides bandwidth control to avoid traffic congestion during peak hours?

A)

```

policy-map CUS_PMAP
class CUS_CMAP
  police 80000000 300000
!
interface gigabitethernet 0/0
description "" TO SW ""
ip address 10.0.10.5 255.255.255.0
service-policy input CUS_PMAPd
  
```

B)

```

policy-map SHAPE_MAP
class class-default
  shape average 80000000
!
interface gigabitethernet 0/1
description "" TO ISP ""
ip address 10.0.20.5 255.255.255.0
service-policy output SHAPE_MAP
  
```

C)

```
policy-map CUS_PMAP
class CUS_CMAP
  police 80000000 300000
!
interface gigabitethernet 0/0
description *** TO ISP ***
ip address 10.0.20.1 255.255.255.0
service-policy input CUS_PMAP
```

D)

```
policy-map SHAPE_MAP
class class-default
  shape average 8000000
!
interface gigabitethernet 0/1
description *** TO IG rack B455:A882:G718 ***
ip address 10.0.20.5 255.255.255.0
```

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

Answer: B

NEW QUESTION 264

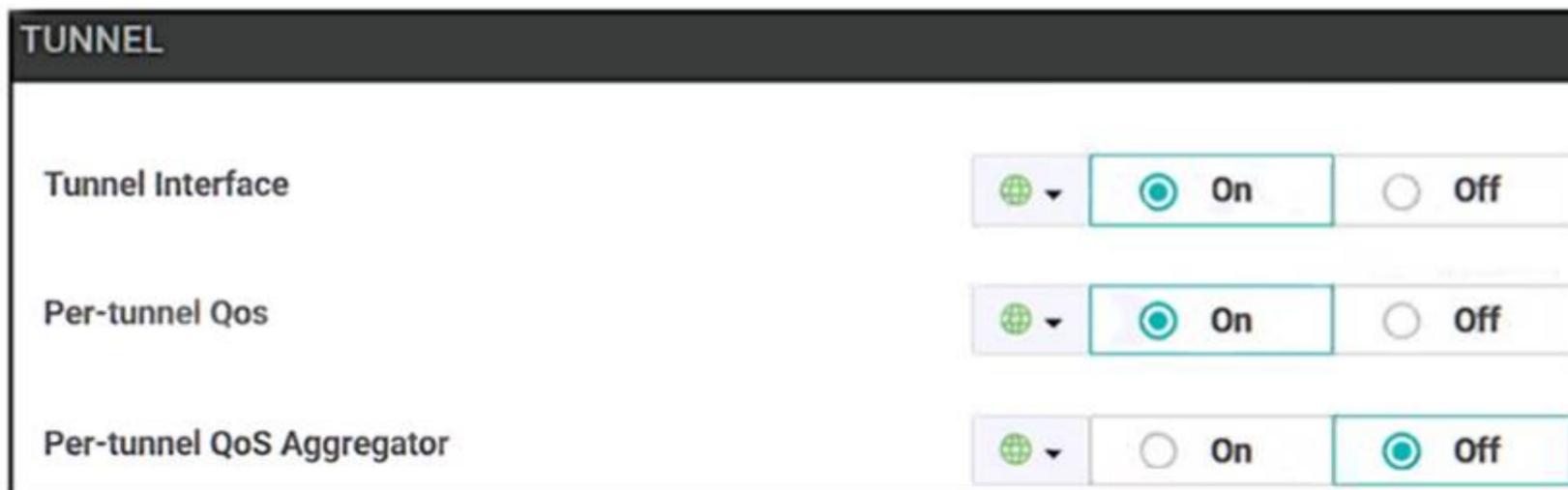
Which destination UDP port is used by WAN Edge router to make a DTLS connection with vBond Orchestrator?

- A. 12343
- B. 12345
- C. 12346
- D. 12347

Answer: C

NEW QUESTION 266

Refer to the exhibit



A user has selected the options while configuring a VPN Interface Ethernet feature template. What is the required configuration parameter the user must set in this template for this feature to function?

- A. The "IP MTU" field must be increased from the default value of 1500 to support the additional overhead.
- B. The "Shaping Rate (Kbps)" field must be configured with a value
- C. The "Adaptive QoS" field must be set to "on"
- D. The "Bandwidth Downstream" field must be configured with a value

Answer: B

NEW QUESTION 268

An engineer must deploy a QoS policy with these requirements:

- policy name: App-police
- police rate: 1000000
- burst: 1000000
- exceed: drop

Which configuration meets the requirements?

```

vpn-list VPN10
sequence 1
match
A. app-list youtube
action accept
set
policer App-police

policy
data-policy policy-name
vpn-list 10
B. sequence 1
action accept
set
policer App-police

vpn 10
interface ge0/0/0
C. set
policer App-police in
default action accept

policy
action accept
D. set
policer App-police
    
```

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

Answer: B

NEW QUESTION 270

An engineer configures policing with a rate of 125 Bps and a burst rate of 8000 bits, as shown here:

```

policy
policer p1
rate
burst
exceed drop
!
access-list acl1
sequence 1
match
source-ip 2.2.0.0/16
destination-ip 10.1.1.0/24 100.1.1.0/24
destination-port 20 30
protocol 6 17 23
!
action accept
policer p1
!
default-action drop
!
vpn 1
interface ge0/4
description Policy ID: B413:A88D:76G7::4
ip address 10.20.24.15/24
no shutdown
access-list acl1 out
!
    
```

Which configuration completes this task?

- A. Configure 125 for rate and 1000 for burst.
- B. Configure 1000 for rate and 64000 for burst
- C. Configure 125 for rate and 8000 for burst
- D. Configure 1000 for rate and 1000 for burst

Answer: D

NEW QUESTION 271

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

- A. In vManage NMS select (he configure policies screen, select the centralized policy tab and click add policy
- B. In vBood orchestrato
- C. select the configure > policies screen select the localized policy ta
- D. and click add policy
- E. In vManage NM
- F. select the configure policies scree
- G. select the localized policy tab- and click add policy

H. In vSmart controller select the configure policies screen, select the localized policy tab, and click add policy

Answer: C

NEW QUESTION 275

Which actions must be taken to allow certain departments to require firewall protection when interacting with data center network without including other departments? (Choose two.)

- A. Use classification policing and marking
- B. Apply data policies at vEdge.
- C. Deploy a service-chained firewall service per VPN
- D. The regional hub advertises the availability of the firewall service
- E. Advertise to vSmart controllers

Answer: CD

NEW QUESTION 277

Which two criteria are supported to filter traffic on a Cisco Umbrella Cloud-delivered firewall? (Choose two)

- A. tunnels
- B. site ID
- C. URL
- D. geolocation
- E. protocol

Answer: AE

Explanation:

<https://docs.umbrella.com/umbrella-user-guide/docs/add-a-firewall-policy>

NEW QUESTION 282

Drag and drop the BFD parameters from the left onto the BFD configurations on the right.

poll interval	BFD for Transport Tunnel <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px;"></div>
color	
hello interval	
PMTU discovery	BFD for Application-Aware Routing <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px;"></div>
multiplier	

- A. Mastered
- B. Not Mastered

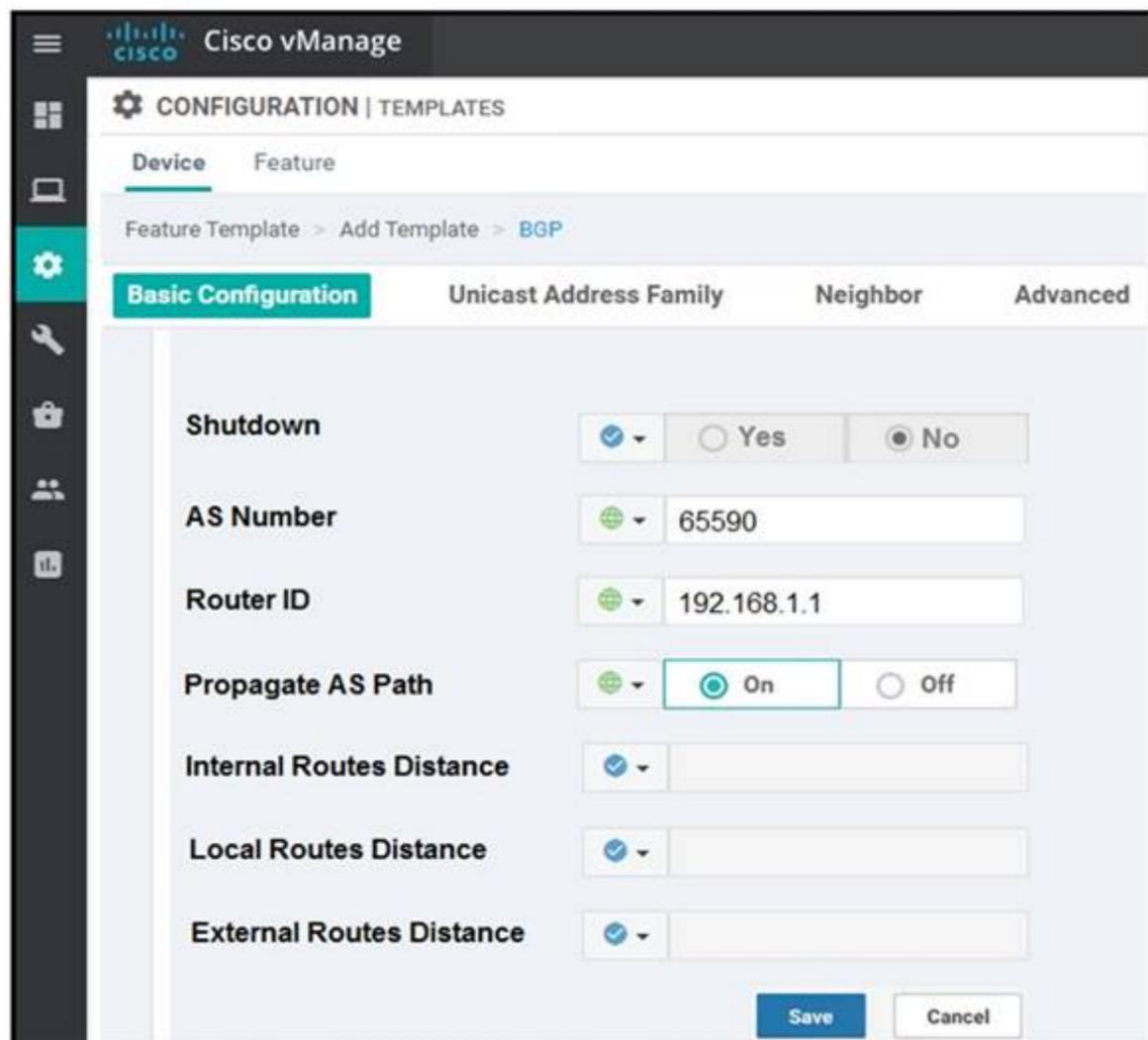
Answer: A

Explanation:

https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Configuration/Templates/B

NEW QUESTION 283

Refer to the exhibit.



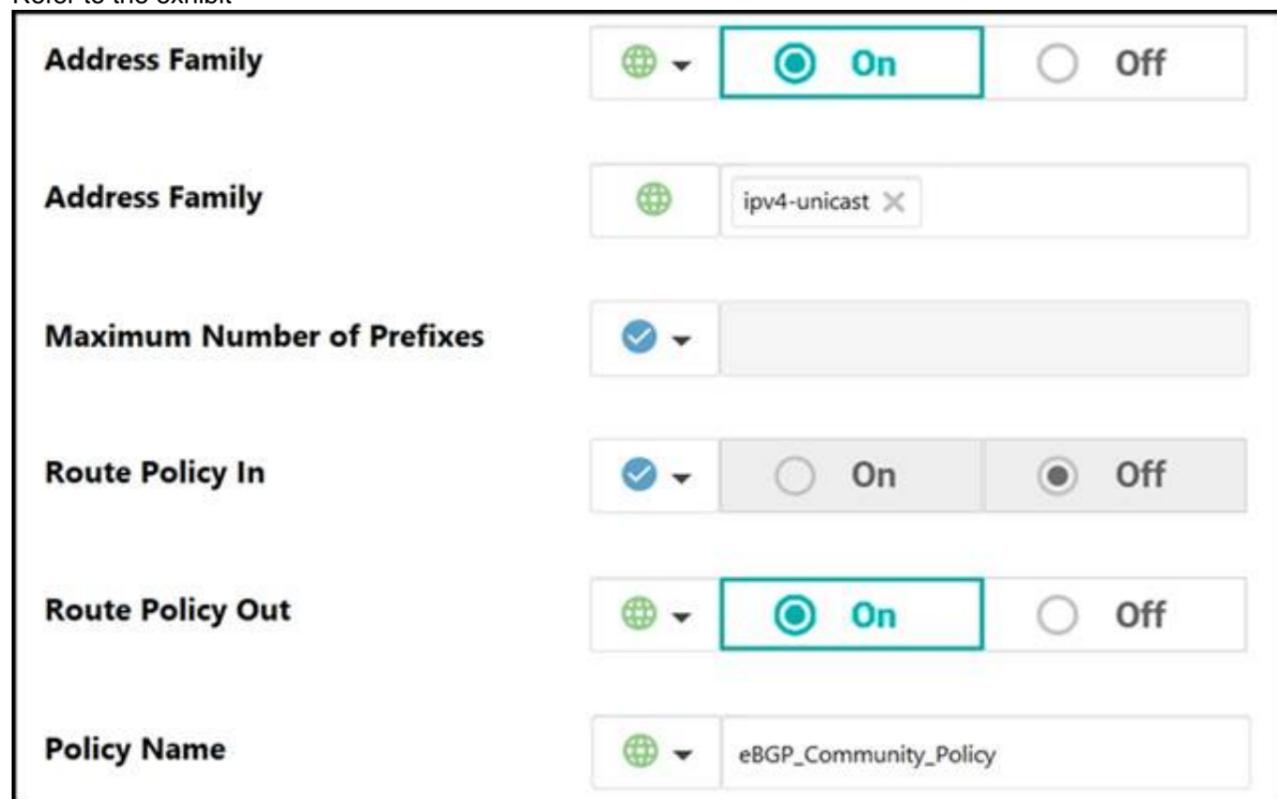
Which configuration value is used to change the administrative distance of iBGP routes to 20?

- 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 285

Refer to the exhibit



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

A)

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

B)

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

C)

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

D)

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

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

Answer: D

NEW QUESTION 290

A network administrator is tasked to make sure that an OMP peer session is closed after missing three consecutive keepalive messages in 3 minutes. Additionally, route updates must be sent every minute. If a WAN Edge router becomes unavailable, the peer must use last known information to forward packets for 12 hours. Which set of configuration commands accomplishes this task?

- omp timers advertisement-interval 60 holdtime 180 graceful-restart-timer 43200
- omp timers advertisement-interval 1 holdtime 180 graceful-restart-timer 43200
- omp timers advertisement-interval 1 holdtime 180 graceful-restart-timer 720
- omp timers advertisement-interval 60 holdtime 60 graceful-restart-timer 720

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

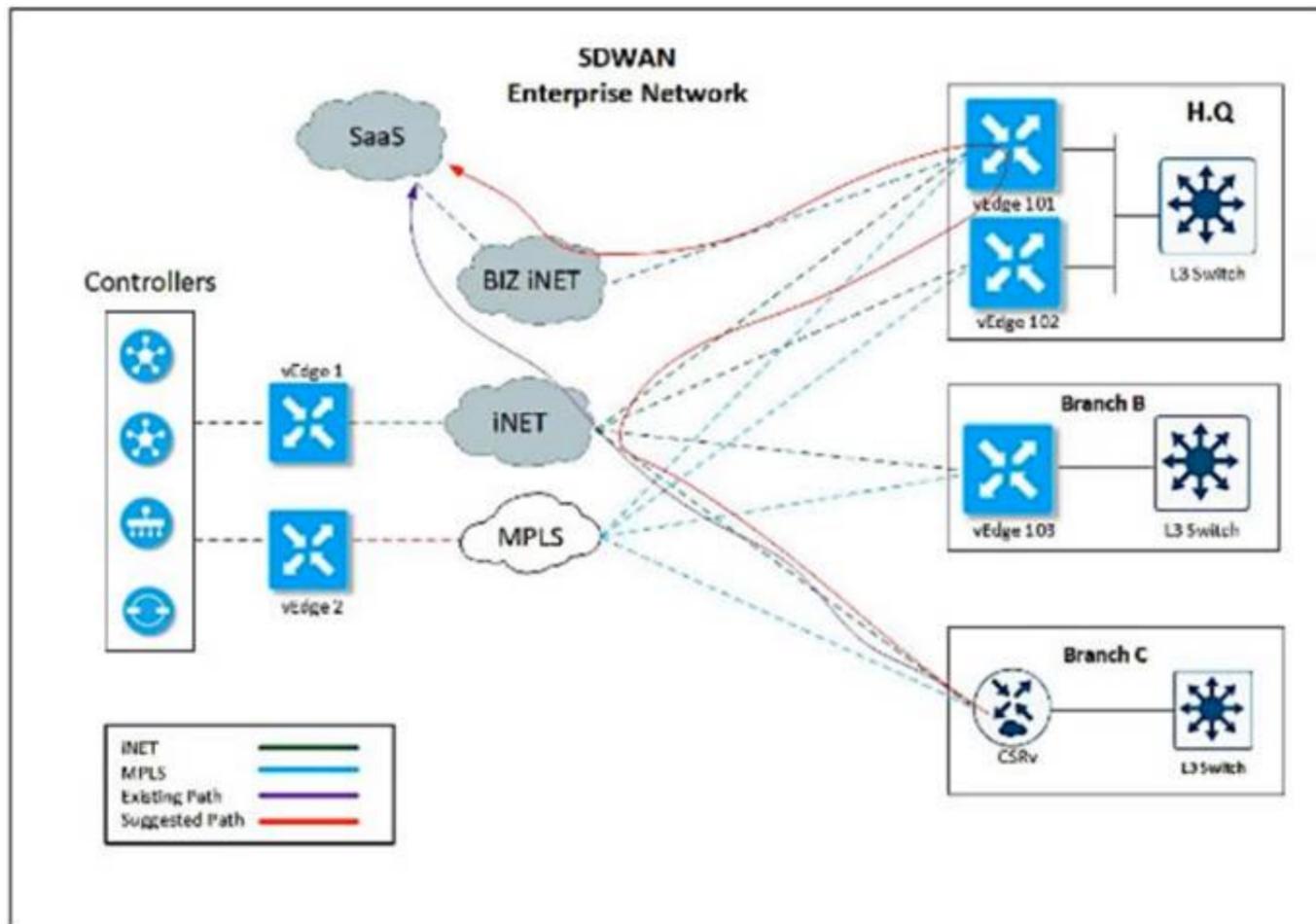
Answer: A

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.2/Configuration/Templates/O

NEW QUESTION 291

Refer to the exhibit.



An enterprise decides to use the Cisco SD-WAN Cloud onRamp for SaaS feature and utilize H.Q site Biz iNET to reach SaaS Cloud for branch C. currently reaching SaaS Cloud directly. Which role must be assigned to devices at both sites in vManage Cloud Express for this solution to work?

- A. H.Q to be added as Gateway and Branch as DIA.
- B. Branch to be added as Client Sites and H.Q as DIA.
- C. Branch to be added as DIA and H.Q as Client Site.
- D. H.Q to be added as Gateway and Branch as Client Site.

Answer: B

NEW QUESTION 294

How is the software managed in Cisco SD-WAN?

- A. Software upgrade operation in the group must include vManag

- B. vBon
- C. and vSmart.
- D. Software downgrades are unsupported for vManage
- E. Software images must be uploaded to vManage through HTTP or FTP.
- F. Software images must be transferred through VPN 512 or VPN 0 of vManage.

Answer: A

NEW QUESTION 297

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

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

Answer: D

Explanation:

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

NEW QUESTION 298

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 302

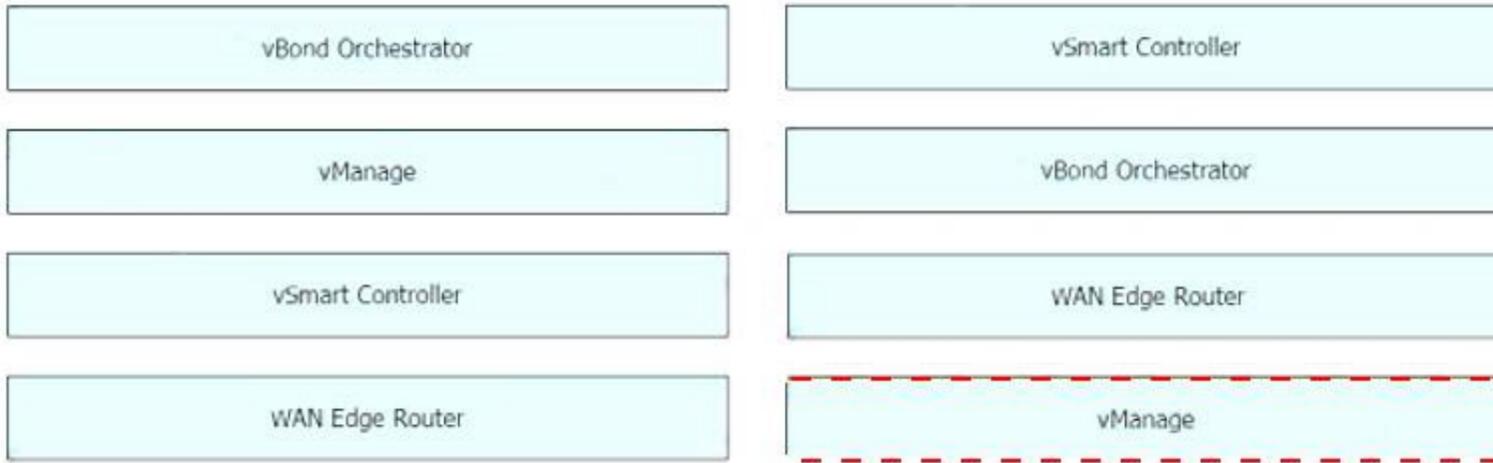
Drag and drop the Cisco SD-WAN components from the left onto their functions on the right.

vBond Orchestrator	IPsec key reflection and rekeying
vManage	first point of authentication
vSmart Controller	passes data plane traffic
WAN Edge Router	used to build configuration and policies

- A. Mastered
- B. Not Mastered

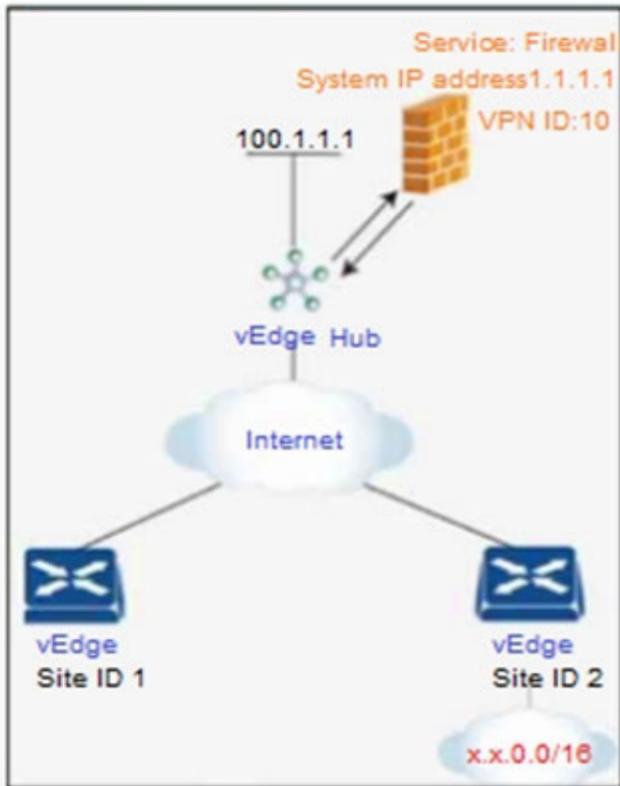
Answer: A

Explanation:



NEW QUESTION 304

Refer to the exhibit.



An engineer is configuring service chaining. Which set of configurations is required for all traffic from Site ID 1 going toward Site ID 2 to get filtered through the firewall on the hub site?

- A)


```

vpn 20
service FW address 1.1.1.1
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 20
default-action accept
apply-policy
site-list firewall-sites control-policy firewall-service out
      
```
- B)


```

vpn 10
service FW address 1.1.1.1
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
      
```
- C)


```

vpn 10
service FW address 1.1.1.1
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 20
default-action accept
apply-policy
site-list firewall-sites control-policy firewall-service out
      
```
- D)

```

vpn 10
service FW address 1.1.1.2
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
    
```

- 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/configuration/policies/vedge/policies-book/service-chainin>

NEW QUESTION 307

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 309

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

- A. They cease to forward traffic in the data plane.
- B. They continue operation normally.
- C. They continue to receive reachability updates.
- D. They continue operating normally for a configurable time.

Answer: D

NEW QUESTION 311

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 312

Refer to exhibit. An engineer is troubleshooting tear of control connection even though a valid CertificateSerialNumber is entered. Which two actions resolve Issue? (Choose two)

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

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

Answer: BC

NEW QUESTION 317

Drag and drop the policies from the left onto the correct policy types on the right.

strict hub-and-spoke topology	Control Policy	
perform shaping on traffic		
service firewall insertion	Data Policy	
prefer voice and video via MPLS link		

- A. Mastered
- B. Not Mastered

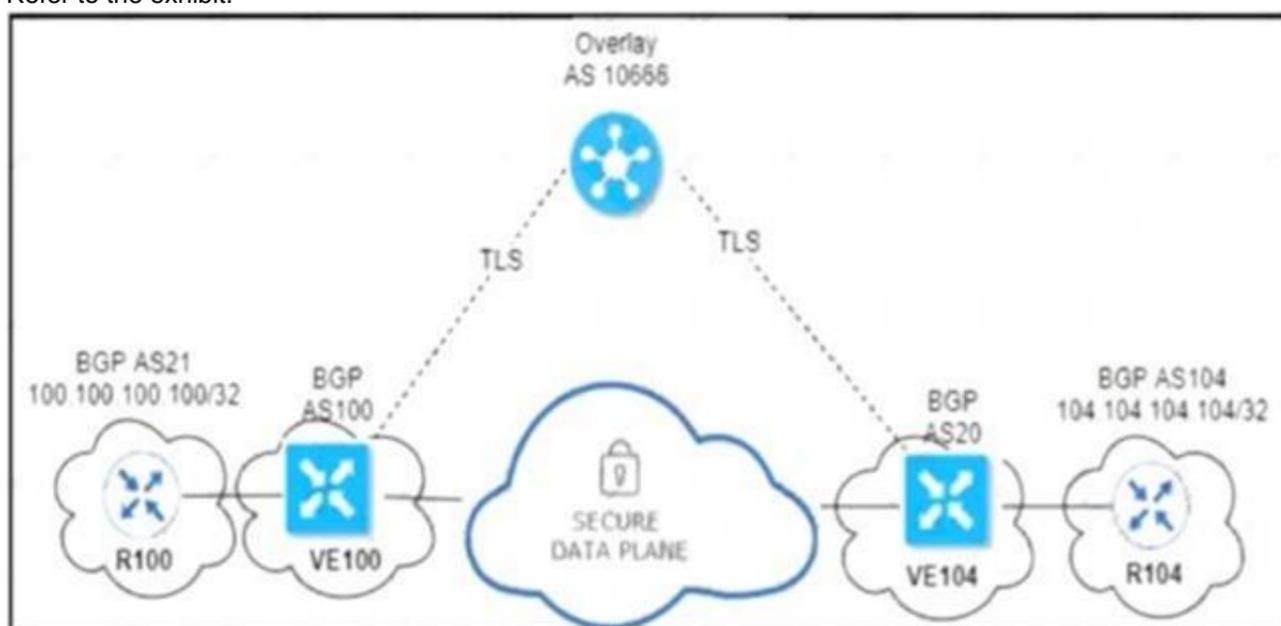
Answer: A

Explanation:

Control Policy
strict hub-and-spoke topology
prefer voice and video via MPLS link
Data Policy
perform shaping on traffic
service firewall insertion

NEW QUESTION 322

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 326

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 331

Which on-the-box security feature supported by the Cisco ISR 4451 SD-WAN device and not on vEdge?

- A. Cloud Express service
- B. Enterprise Firewall with Application Awareness
- C. reverse proxy
- D. IPsec/GRE cloud proxy

Answer: B

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/software/one-wan-subscription/guide-c07-740642.html#Step2>

NEW QUESTION 333

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

- A)


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


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


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


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

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

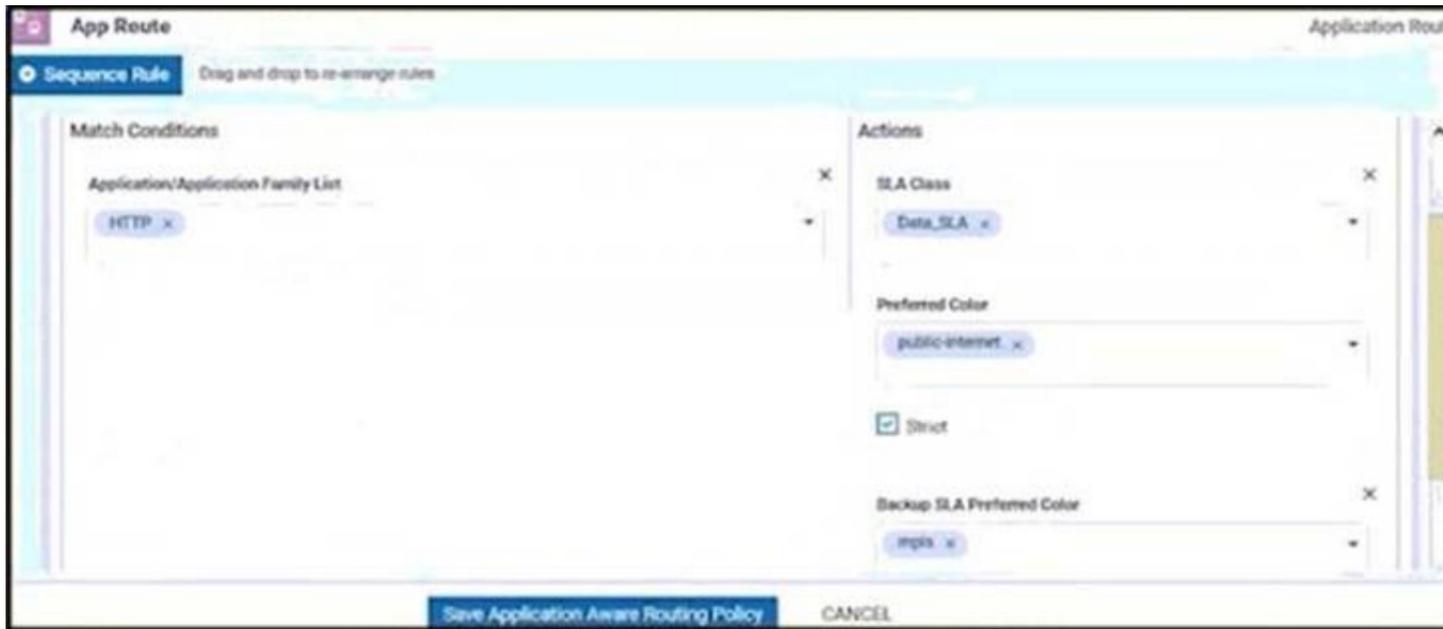
Answer: D

NEW QUESTION 336

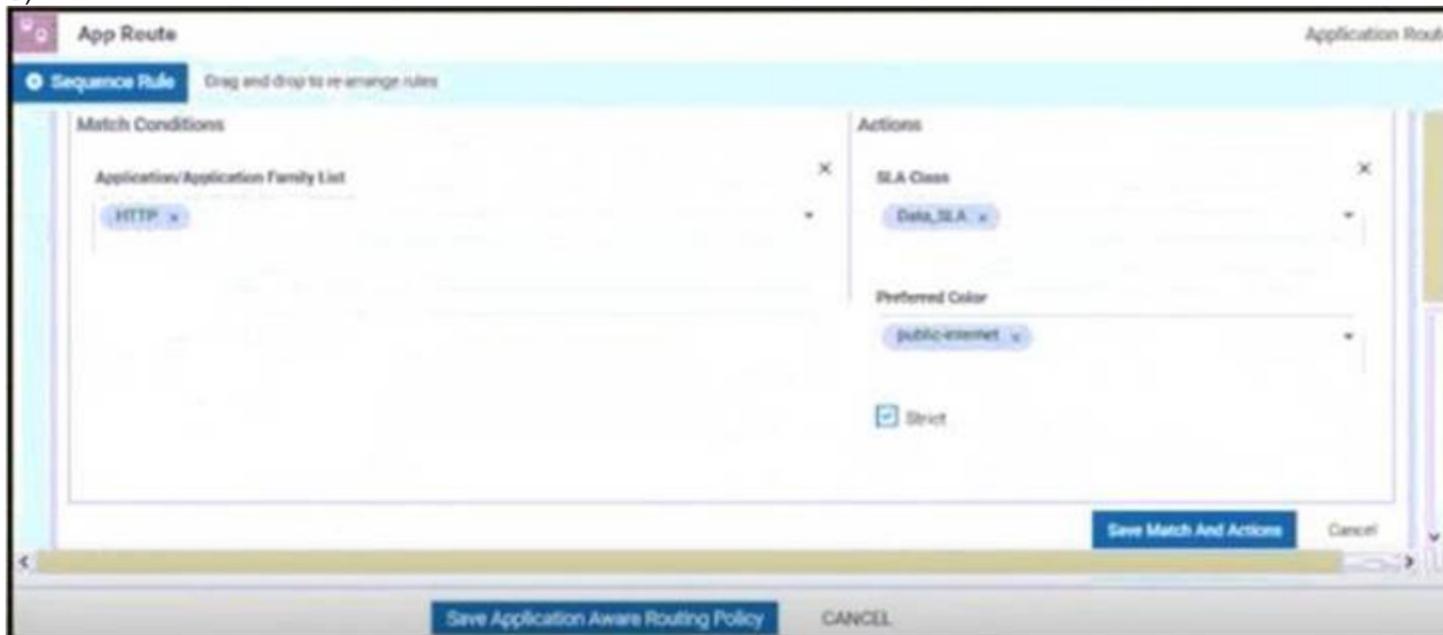
An engineer must improve video quality by limiting HTTP traffic to the Internet without any failover. Which configuration in vManage achieves this goal?



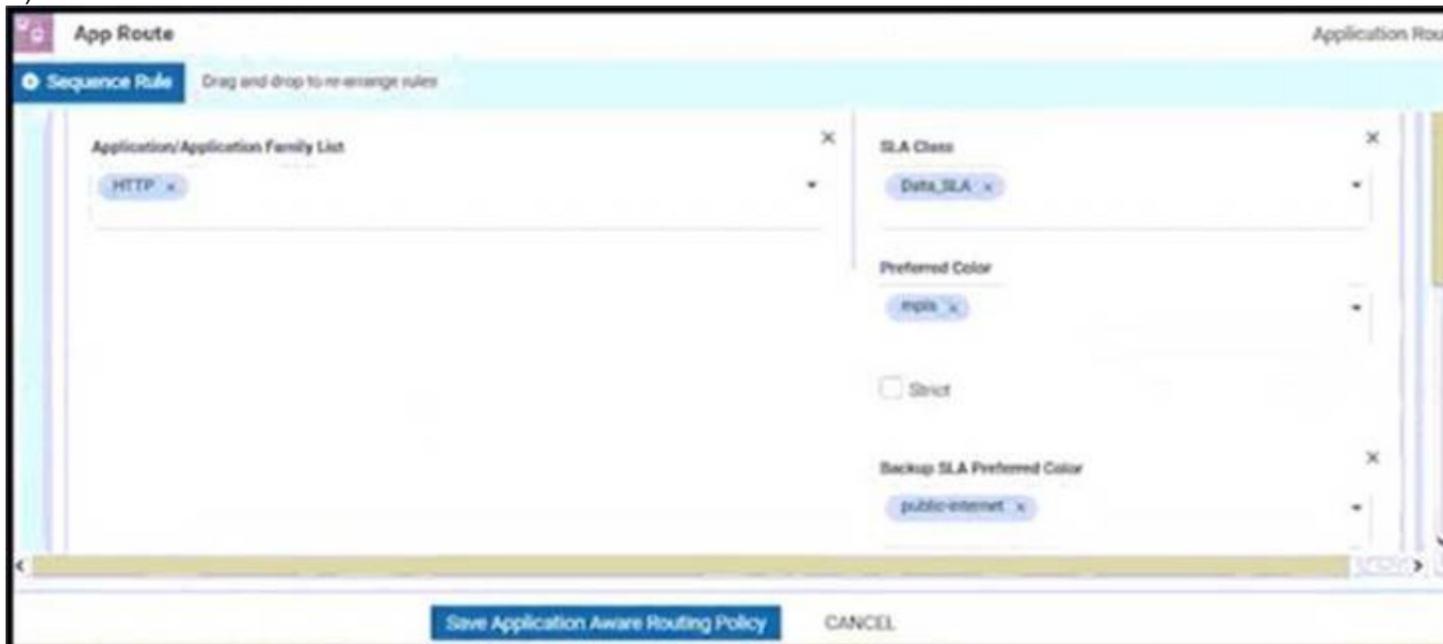
B)



C)



D)

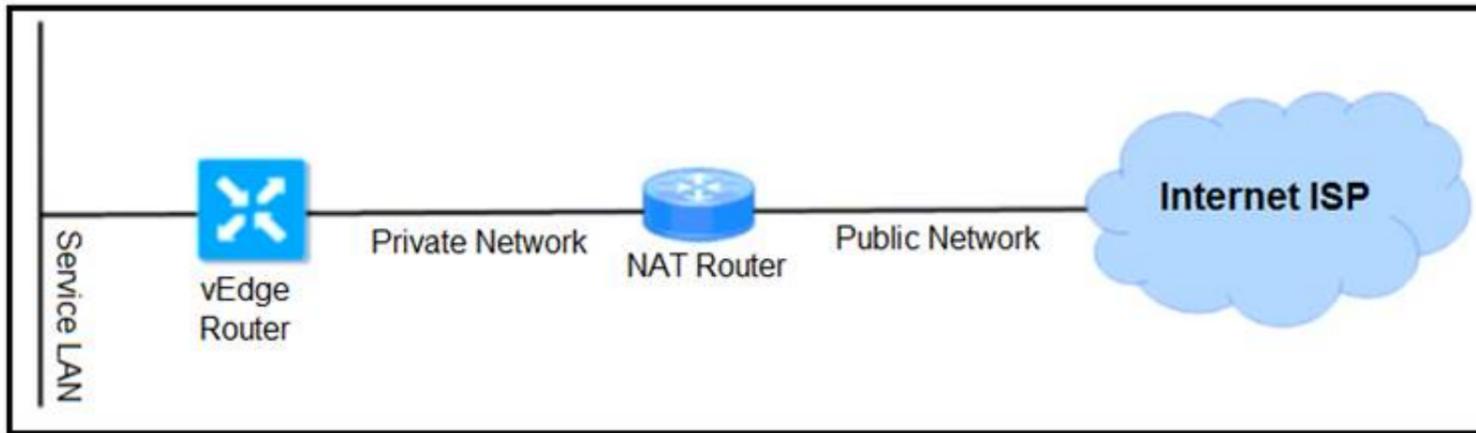


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NEW QUESTION 337

Refer to the exhibit



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

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

Answer: A

NEW QUESTION 340

Which device information is required on PNP/ZTP to support the zero-touch onboarding process?

- A. serial and chassis numbers
- B. interface IP address
- C. public DNS entry
- D. system IP address

Answer: A

Explanation:

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

NEW QUESTION 341

What is the OMP graceful restart default value on vSmart controllers and WAN Edge routers?

- A. 21,600 seconds
- B. 43,200 seconds
- C. 86,400 seconds
- D. 604,800 seconds

Answer: B

NEW QUESTION 345

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

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

Answer: BE

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/01Security_Ov

NEW QUESTION 348

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

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

Answer: A

NEW QUESTION 352

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 353

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 355

Drag and drop the steps from the left into the order on the right to upload software on vManage repository that is accessible from maintenance > Software Repository.

Click the repository	Step 1
select vManage to store the software	Step 2
Click Add net software	Step 3
Choose the file and click upload	Step 4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Add an Image to the Software Repository

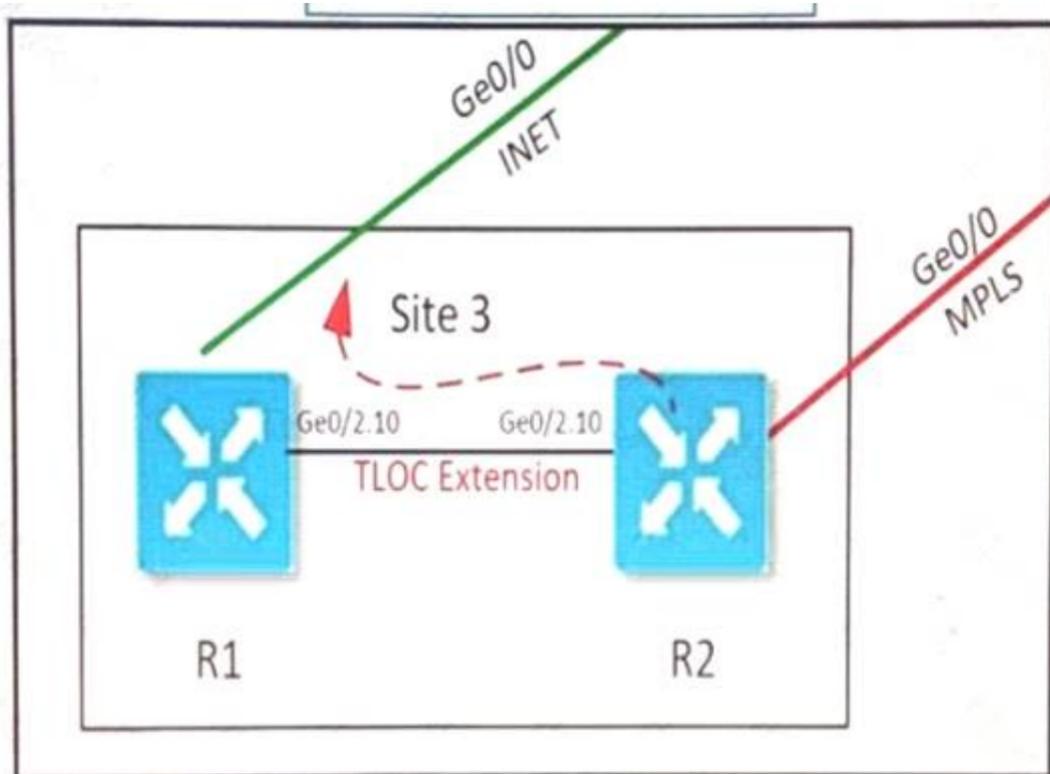
To add a software image to the software repository:

1. In Cisco vManage, click **Maintenance > Software Repository**.
2. Click **Add New Software** and select **vManage** from the drop-down menu.
3. In the **Upload Software to vManage** dialog box:
 - a. Click **Browse** and browse to the desired software image.
 - b. Click **Upload**.

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/Monitor-And-Maintain/monitor-maintain-bo>

NEW QUESTION 357

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)
- ```

R1
interface ge0/2
interface ge0/2.10
 ip address 43.43.43.2/30
 tloc-extension ge0/0
 tunnel-interface
  color public-internet

R2
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 1/30
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 358

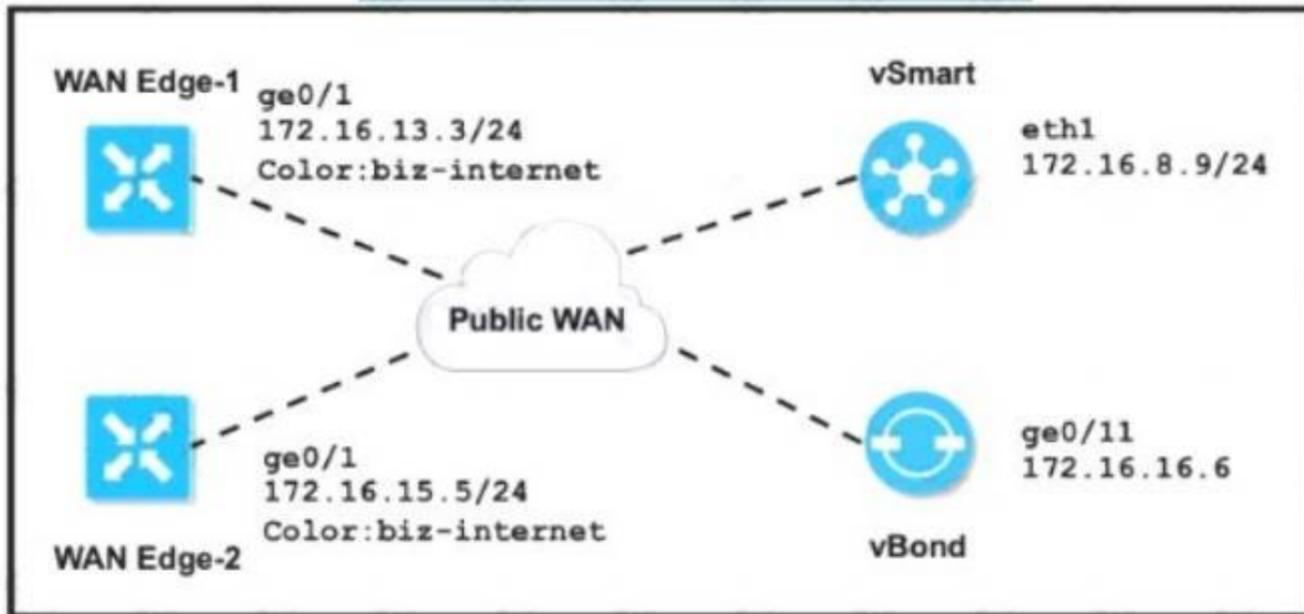
REST applications communicate over HTTP or HTTPS to make calls between network devices. Which two HTTPS standard methods are included? (Choose two.)

- A. Array
- B. DELETE
- C. POST
- D. Scalar
- E. Object

Answer: BC

NEW QUESTION 363

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?

```

○ vpn 0
  interface ge0/1
  ip address 172.16.16.5/24
  ip route 0.0.0.0/0 172.16.13.1

○ vpn 0
  interface ge0/1
  ip address 172.16.13.3/24
  ip route 0.0.0.0/0 172.16.13.1

○ vpn 0
  interface ge0/1
  ip address 172.16.13.3/24
  ip route 0.0.0.0/0 172.16.8.1

○ vpn 0
  interface ge0/1
  ip address 172.16.16.5/24
  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

NEW QUESTION 365

Refer to the exhibit.

The screenshot shows a configuration window for a policy named 'eBGP_Community_Policy'. The settings are as follows:

- Address Family:** Set to 'On' (radio button selected).
- Address Family:** Set to 'ipv4-unicast' (dropdown menu).
- Maximum Number of Prefixes:** Set to a checkmark icon (dropdown menu).
- Route Policy In:** Set to 'Off' (radio button selected).
- Route Policy Out:** Set to 'On' (radio button selected).
- Policy Name:** Set to 'eBGP_Community_Policy' (text input field).

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 366

Which device should be configured with the service chain IP address to route intersite traffic through a firewall?

- A. vSmart
- B. firewall
- C. spoke WAN Edge
- D. hub WAREdge

Answer: A

NEW QUESTION 368

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

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

Answer: D

NEW QUESTION 373

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 377

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 378

.....

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