Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
Which component of the Cisco SD-WAN secure extensible network provides a single pane of glass approach to network monitoring and configuration?

A. APIC-EM
B. vSmart
C. vManage
D. vBond

Answer: C

Explanation:

Cisco vManage provides a single-pane-of-glass management to manage all controller components and both enterprise and extended enterprise WAN edge devices.
The comprehensive vManage GUI has dashboard, monitor, configuration, tools, maintenance, administration, and analytics as the top-level menus.

NEW QUESTION 2
What is the role of the Session Traversal Utilities for NAT server provided by the vBond orchestrator?

A. It facilitates SD-WAN toners and controllers to discover their own mapped or translated IP addresses and port numbers
B. It prevents SD-WAN Edge routers from forming sessions with public transports among different service providers
C. It facilitates SD-WAN Edge routers to stay behind a NAT-enabled firewall while the transport addresses of the SD-WAN controller are unNAT-ed
D. It allows WAN Edge routers to form sessions among MPLS TLOCs using only public IP addresses

Answer: C

NEW QUESTION 3
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 4
What are the default username and password for vSmart Controller when it is installed on a VMware ESXi hypervisor'?

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

Answer: D

NEW QUESTION 5
Refer to the exhibit.

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

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

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

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

Answer: BC

NEW QUESTION 6
A network administrator configures SNMFV3 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

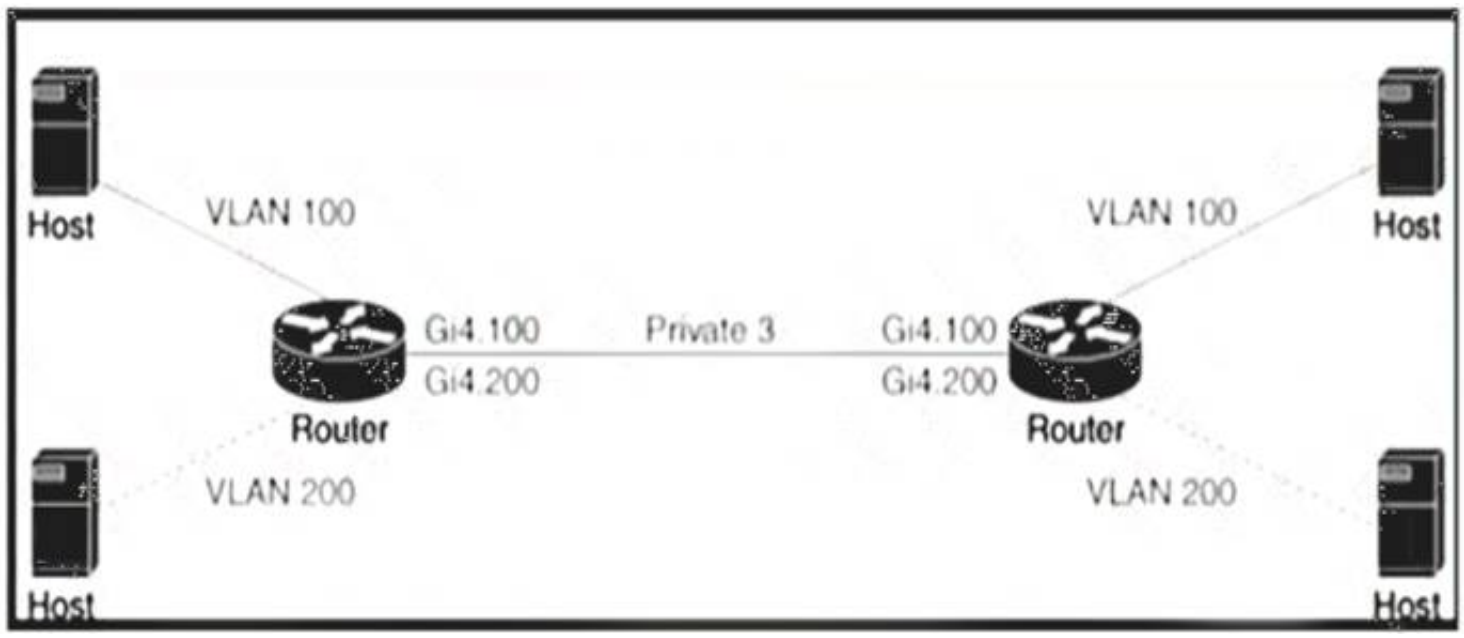
Answer: C

NEW QUESTION 7
Which type of certificate is installed on vManage for a user to access vManage via a web browser?

A. Controller Certificate
B. Web Server Certificate
C. WAN Edge Certificate
D. SD-AVC Certificate

Answer: B

NEW QUESTION 8
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 9
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
!
```

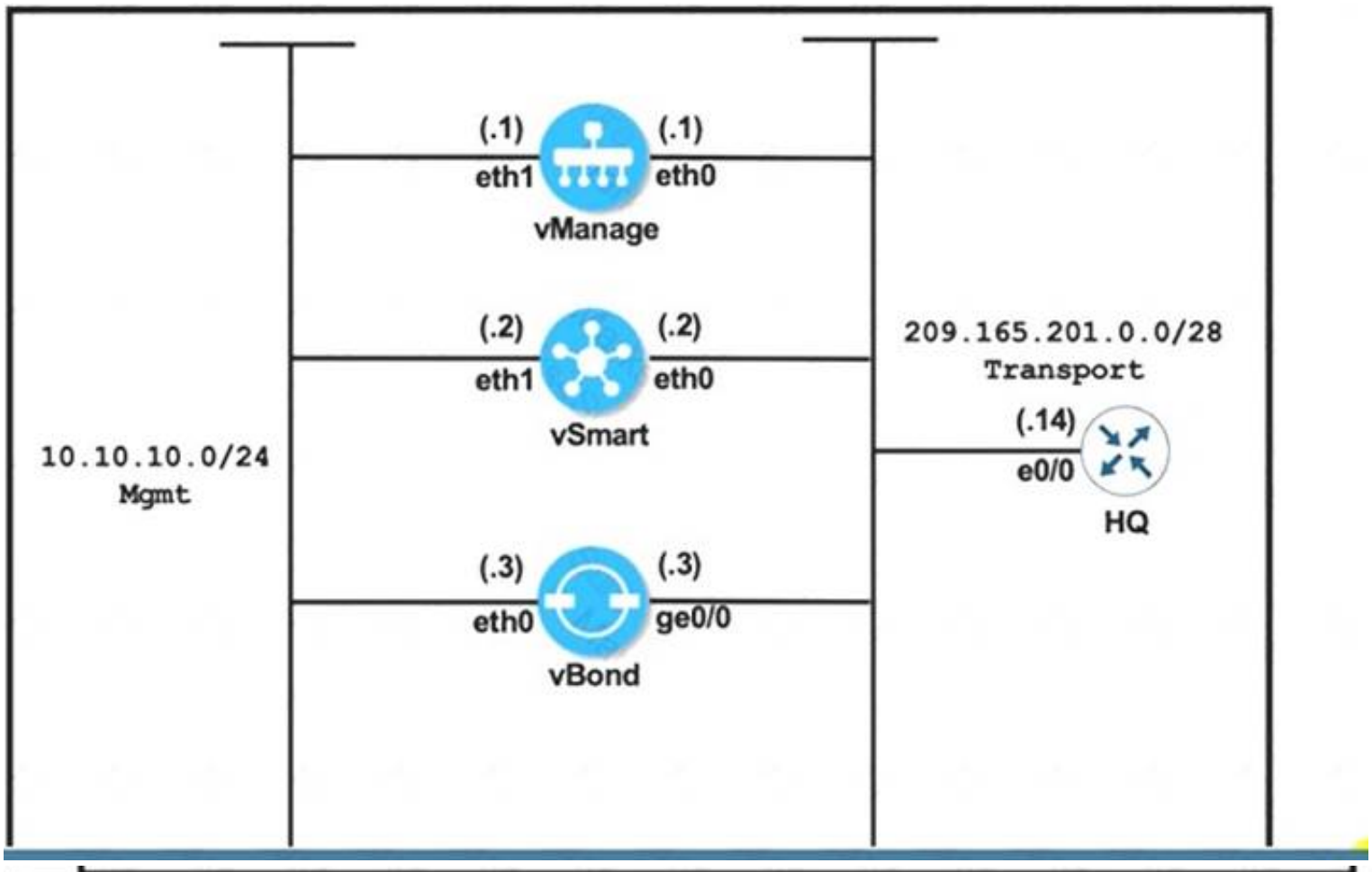
D)

```
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 10
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 10
Which secure connection should be used to access the REST APIs through the Cisco vManage web server?

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

Answer: B

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

NEW QUESTION 11
An engineer is configuring a shaping rate of 1 Mbps on the WAN link of a WAN Edge router Which configuration accomplishes this task'?

```
vpn vpn-id
  interface interface-name
    shaping-rate 1000000
```

```
vpn vpn-id
  interface interface-name
    shaping-rate 1000
```

```
interface interface-name
  vpn vpn-id
    shaping-rate 1000000
```

```
interface interface-name
  vpn vpn-id
    shaping-rate 1000
```

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

Answer: B

NEW QUESTION 12
Which port is used for vBond under controller certificates if no alternate port is configured?

A. 12345
B. 12347
C. 12346
D. 12344

Answer: C

Explanation:
vSmart and vManage are normally installed behind NAT device, so port hopping is not needed. vBond always uses to other Viptela devices using port 12346 and they never use port hopping.

NEW QUESTION 16
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 19
Which policy tracks path characteristics such as loss, latency, and jitter in vManage?

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

Answer: C

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

NEW QUESTION 23
Which device information is required on PNP/ZTP to support the zero-touch onboarding process?

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

Answer: D

NEW QUESTION 27
What prohibits deleting a VNF image from the software repository?

A. if the image is stored by vManage
B. if the image is referenced by a service chain
C. if the image is uploaded by a WAN Edge device
D. if the image is included in a configured policy

Answer: D

NEW QUESTION 29
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 34
A bank is looking for improved customer experience for applications and reduce overhead related to compliance and security. Which key feature or features of the Cisco SD-WAN solution will help the bank to achieve their goals?

A. Integration with PaaS providers to offer the best possible application experience
B. QoS including application prioritization and meeting critical applications SLA for selecting optimal path.
C. implementation of a modem age core banking system
D. implementation of BGP across the enterprise routing for selecting optimal path

Answer: B

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

NEW QUESTION 37
Refer to the exhibit.

```
                                                                                PEER                    PEER
          PEER     PEER     PEER              SITE        DOMAIN PEER          PRIVATE  PEER            PUBLIC
LOCAL       REMOTE      REPEAT
INSTANCE TYPE      PROTOCOL SYSTEM IP         ID          ID     PRIVATE IP     PORT     PUBLIC IP       PORT
REMOTE COLOR     STATE           ERROR      ERROR      COUNT DOWNTIME
-----------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------
0         vsmart   tls      1.1.1.3          100         1      100.1.1.3      23456    100.1.1.3       23456
default          trying          DCONFAIL   NOERR      10001 2020-01-01T10:01:20+0000
```

The control connection is failing. Which action resolves the issue?

A. import vSmart in vManager
B. Validate the certificates authenticity on vSmart
C. Upload the WAN Edge list on vManage.
D. Restore the reachability to the vSmart

Answer: D

Explanation:
https://www.cisco.com/c/en/us/support/docs/routers/sd-wan/214509-troubleshoot-control-connections.html

NEW QUESTION 41
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 44
Which TCP Optimization feature is used by WAN Edge to prevent unnecessary retransmissions and large initial TCP window sizes to maximize throughput and achieve a better quality?

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

Answer: D

Explanation:

TCP Optimization

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

NEW QUESTION 46
Refer to the exhibit.

```
policy
 lists
  !
  tloc-list dc-preference-east
   tloc 100.100.100.100 color mpls
encap ipsec preference 200
   tloc 101.101.101.101 color mpls
encap ipsec preference 400
  !
  site-list sites-region-west
   site-id 1-20
  !
  site-list sites-region-east
   site-id 21-40
  !
  site-list dc-sites
   site-id 100-101

control-policy adv-dc-preference-west
  sequence 10
   match route
    site-list dc-sites
   !
   action accept
    set
     tloc-list dc-preference-east
    !
    !
   !
   default-action accept
  !
 !
control-policy adv-dc-preference-east
  sequence 10
   match route
    site-list dc-sites
   !
   action accept
    set
     tloc-list dc-preference-east
    !
    !
   !
   default-action accept
  !
 !
apply-policy
 site-list sites-region-west
  control-policy adv-dc-preference-west
 out
  !
 site-list sites-region-east
  control-policy adv-dc-preference-east
 out
  !
 !
```

A customer wants to implement primary and secondary Cisco SD-WAN overlay routing for prefixes that are advertised for both data centers. The east data center (TLOC 101.101.101.101) is primary for east sites, and the west data center (TLOC 100.100.100.100) is primary for west sites. Which configuration change achieves this objective?

A.
```
lists
 tloc-list dc-preference-west
  tloc 100.100.100.100 color mpls encap ipsec preference 400
  tloc 101.101.101.101 color mpls encap ipsec preference 200

control-policy adv-dc-preference-west
 sequence 10
  match route
   site-list dc-sites
  !
  action accept
   set
    tloc-list dc-preference-west
   !
  !
 !
 default-action accept
```

B.
```
lists
 tloc-list dc-preference-west
  tloc 100.100.100.100 color mpls encap ipsec preference 200
  tloc 101.101.101.101 color mpls encap ipsec preference 400

control-policy adv-dc-preference-west
 sequence 10
  match route
   site-list dc-sites
  !
  action accept
   set
    tloc-list dc-preference-west
   !
  !
 !
 default-action accept
```

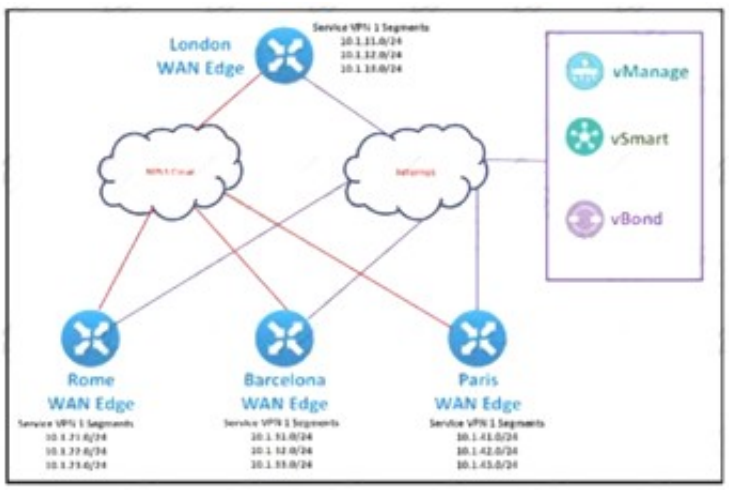
C.
```
tloc-list dc-preference-east
  tloc 100.100.100.100 color mpls encap ipsec preference 400
  tloc 101.101.101.101 color mpls encap ipsec preference 200
```

D.
```
control-policy adv-dc-preference-west
 sequence 10
  match route
   site-list dc-sites
  !
  action accept
   set
    tloc-list dc-preference-west
   !
  !
 !
 default-action accept
```

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

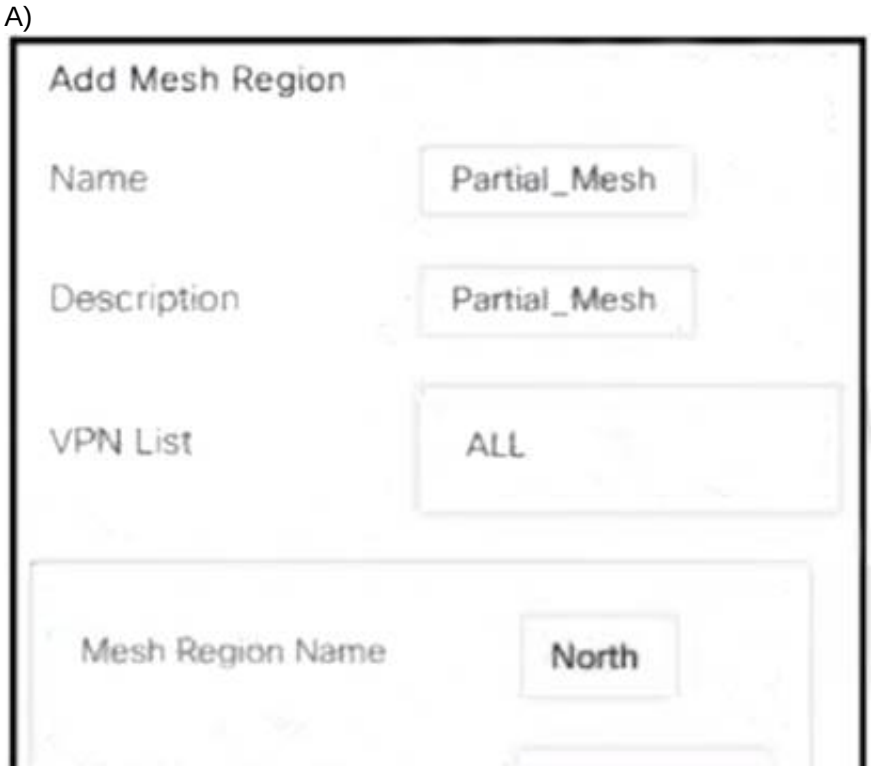
Answer: A

NEW QUESTION 47
Refer to the exhibit.

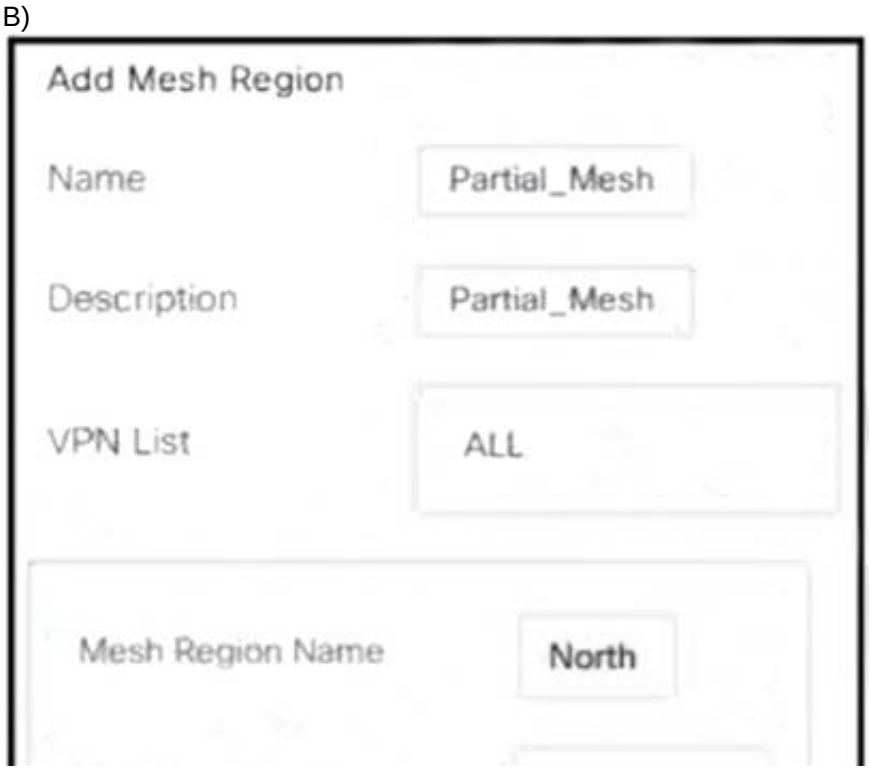


The SD-WAN network is configured with a default full-mesh topology. The SD-WAN engineer wants the Barcelona WAN Edge to use MPLS TLOC as the preferred TLOC when communicating with Rome site. Which configuration must the engineer use to create a list to select MPLS color toward the Rome TLOC?

A)

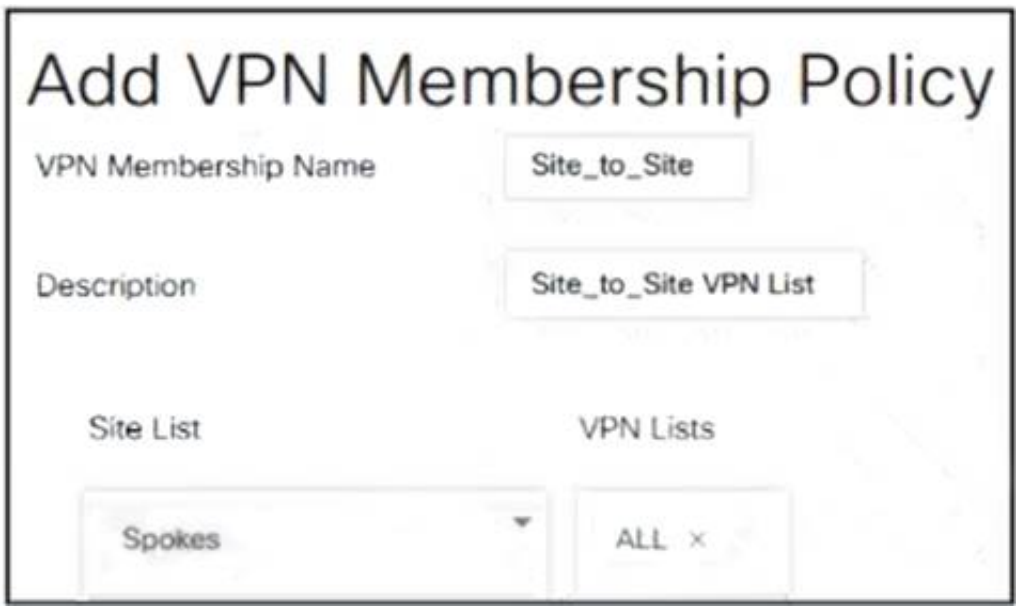


B)



C)

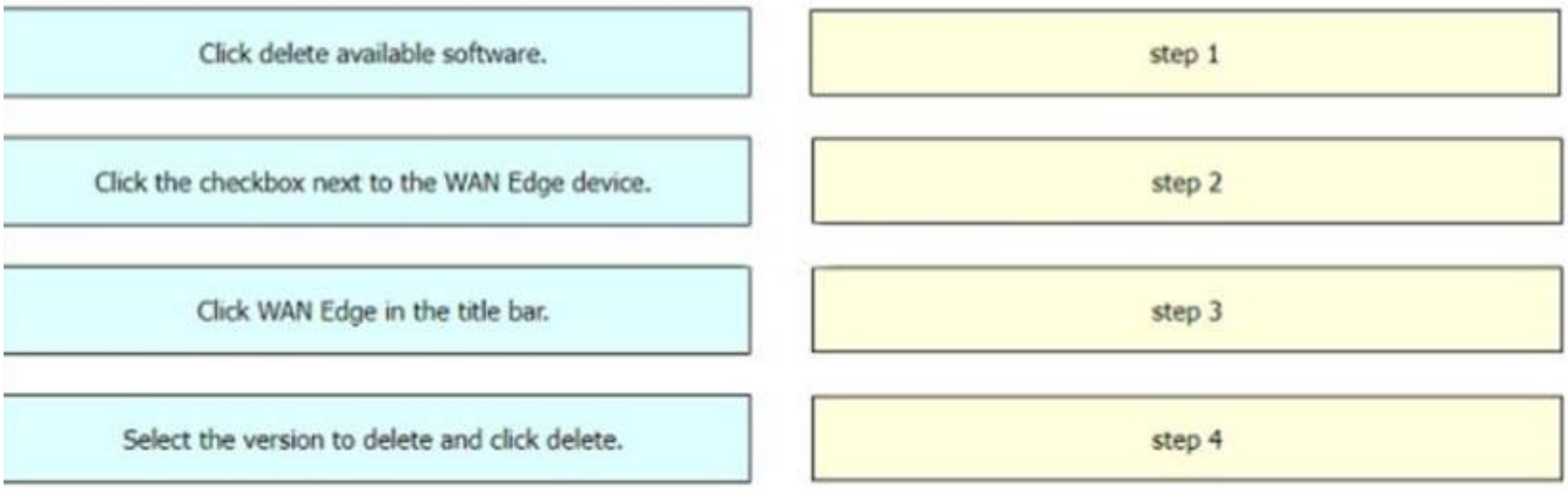
D)



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

Answer: C

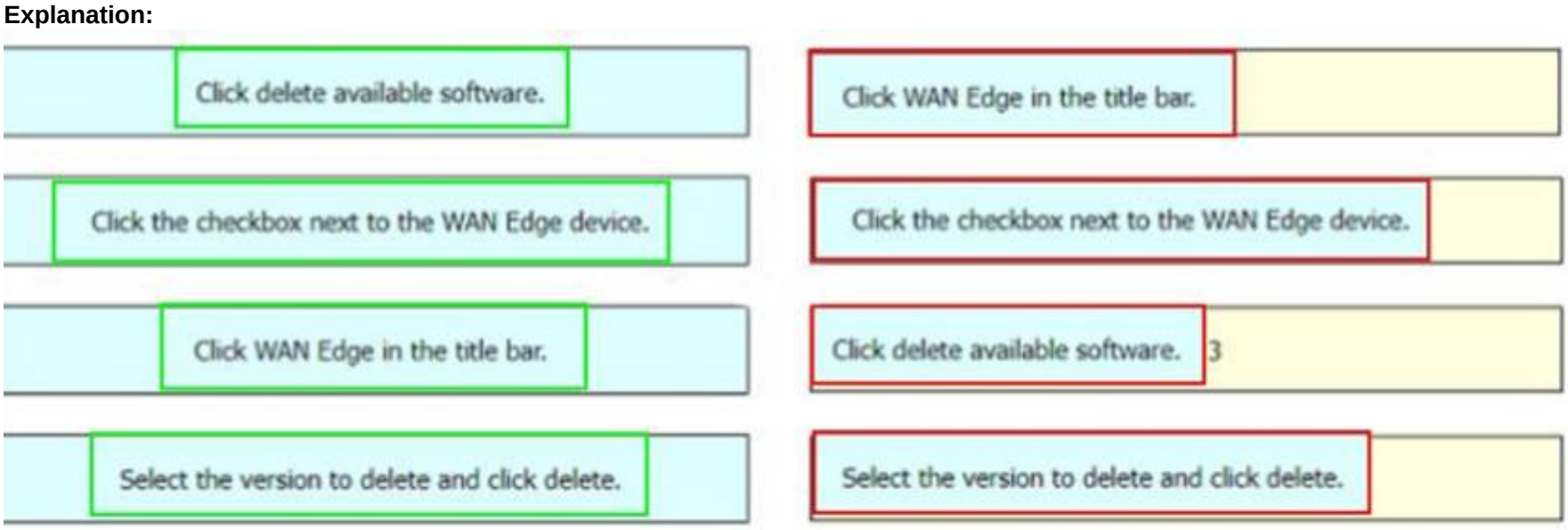
NEW QUESTION 49
Drag and drop the steps from the left Into the order on the right to delete a software image for a WAN Edge router starting with Maintenance > Software Upgrade > Device list on vManage.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 54
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 56
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

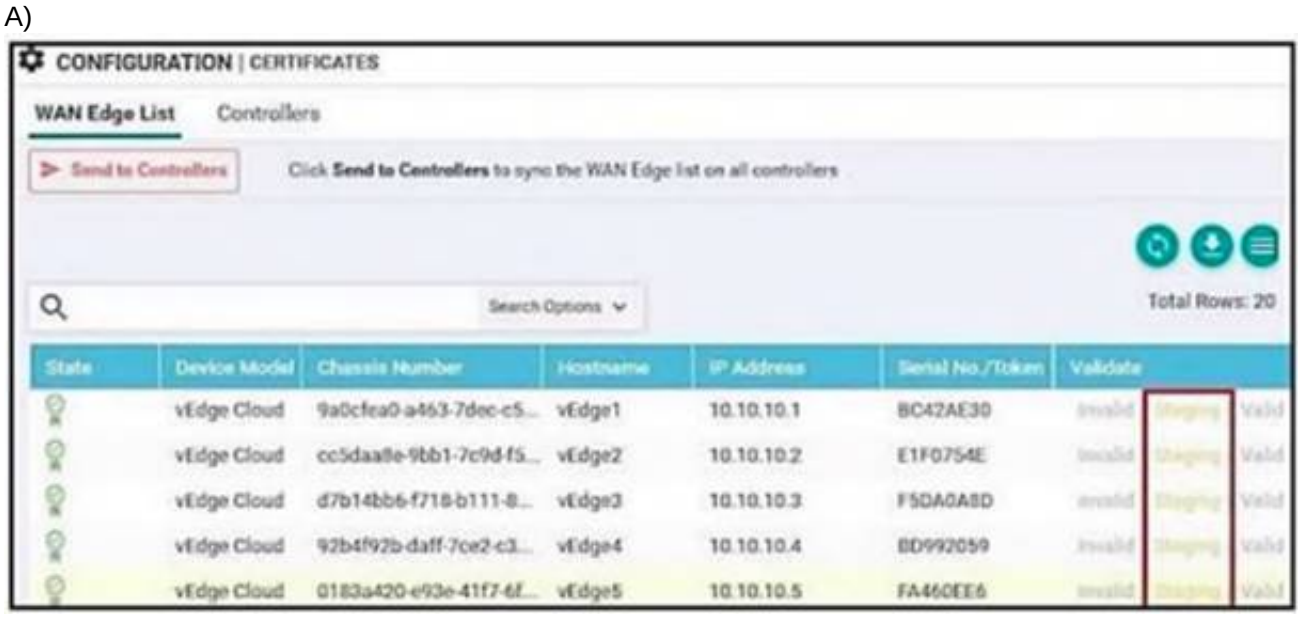
Answer: C

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

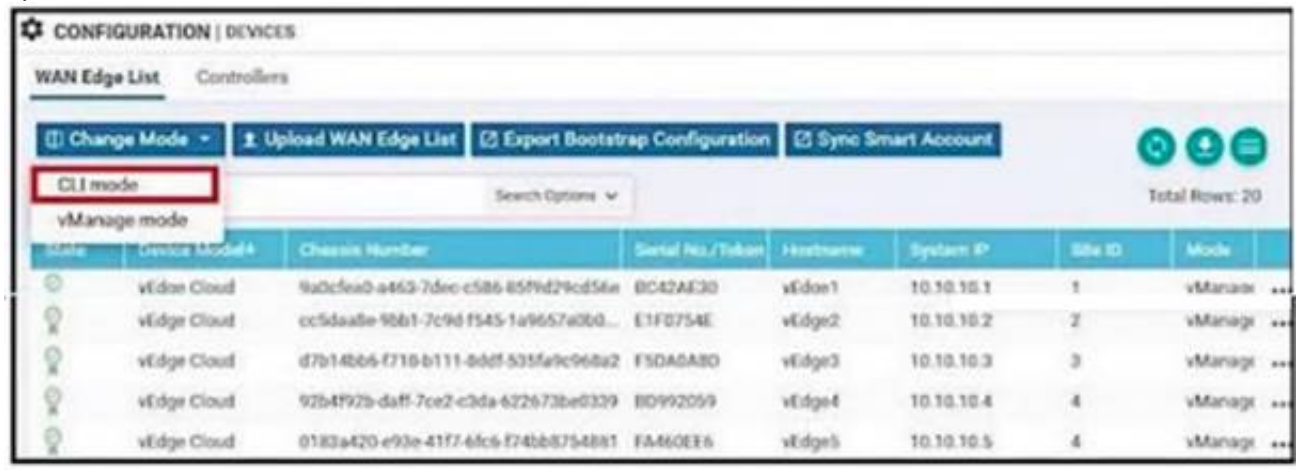
NEW QUESTION 57
Refer to the exhibit.

```
vEdge1# show control connections
                                                          PEER
PEER    PEER PEER            SITE       DOMAIN PEER        PRIV  PEER
TYPE    PROT SYSTEM IP       ID         ID     PRIVATE IP  PORT  PUBLIC IP
-----------------------------------------------------------------------------
vsmart  dtls 10.2.2.2        1          1      10.50.0.5   12446 10.50.0.5
vsmart  dtls 10.2.2.2        1          1      10.50.0.5   12446 10.50.0.5
vbond   dtls 0.0.0.0         0          0      10.50.0.9   12346 10.50.0.9
vbond   dtls 0.0.0.0         0          0      10.50.0.9   12346 10.50.0.9   up
vmanage dtls 10.1.1.1        1          0      10.50.0.1   12446 10.50.0.1
```

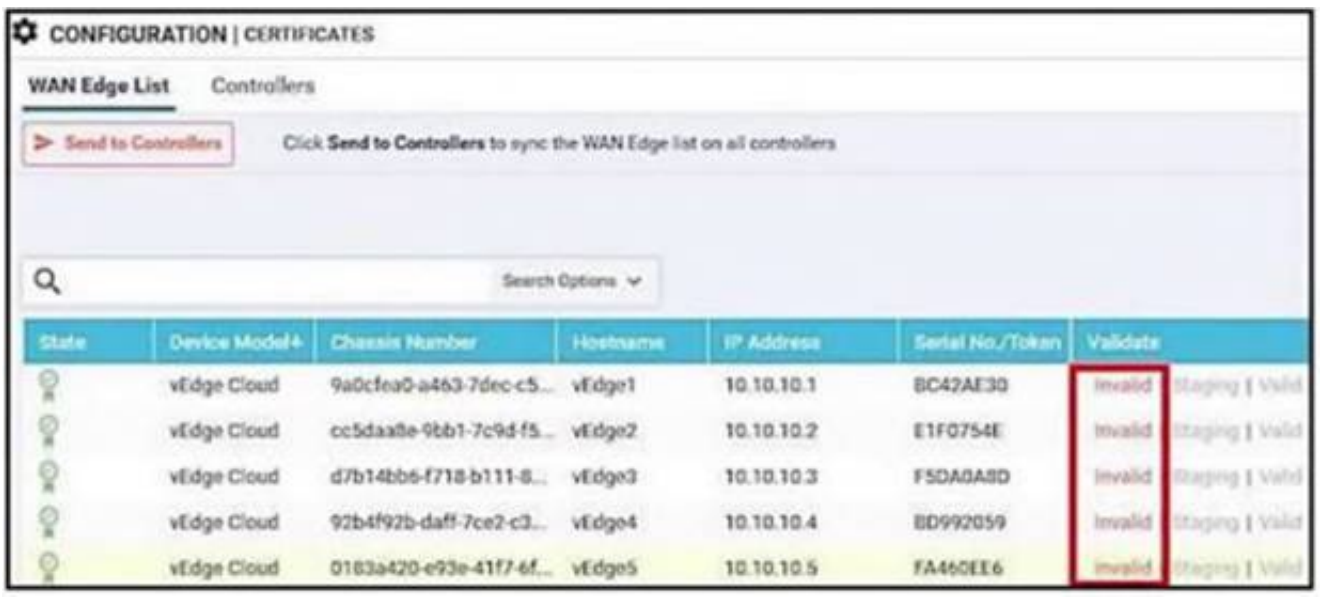
An organization is testing a Cisco SD-WAN solution and decided to have the control plane established first and not the data plane at the time of migration. Which configuration achieves this goal?
A)



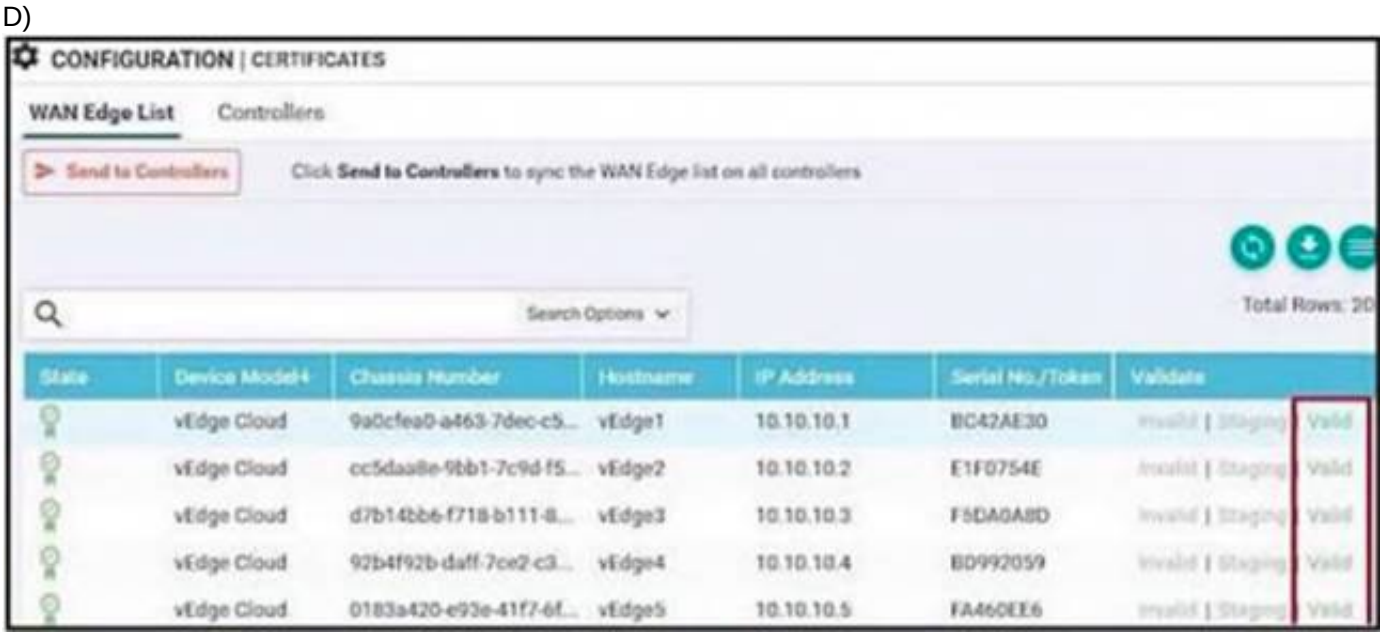
B)



C)



D)



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

Answer: A

NEW QUESTION 61
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 63
Which platforms are managed by a single vManage dashboard?

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

Answer: C

NEW QUESTION 64
An engineer must automate certificate signing through Cisco. Which vManage configuration achieves this task?
A)

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

B)

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

C)

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

D)

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

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

Answer: A

NEW QUESTION 68
What is the purpose of ''vpn 0'' in the configuration template when onboarding a WAN edge node?

A. It carries control traffic over secure DTLS or TLS connections between vSmart controllers and vEdge routers, and between vSmart and vBond
B. It carries control out-of-band network management traffic among the Viptela devices in the overlay network.
C. It carries control traffic over secure IPsec connections between vSmart controllers and vEdge routers, and between vSmart and vManager
D. It carries control traffic over secure IPsec connections between vSmart controllers and vEdge routers, and between vSmart and vBond

Answer: A

Explanation:

- VPN 0 is the transport VPN. It carries control traffic over secure DTLS or TLS connections between vSmart controllers and vEdge routers, and between vSmart controllers and vBond orchestrators. Initially, VPN 0 contains all a device's interfaces except for the management interface, and all the interfaces are disabled. For the control plane to establish itself so that the overlay network can function, you must configure WAN transport interfaces in VPN 0.

NEW QUESTION 69
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 71
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 73
A customer has 1 to 100 service VPNs and wants to restrict outbound updates for VPN1 Which control policy configuration restricts these updates?
A)
```
policy
 lists
  vpn-list VPN2-100
   vpn 2-100
  !
 !
 control-policy restrict_2-100
  sequence 10
   match route
    vpn-list  VPN2-100
   !
   action reject
  !
  default-action accept
```
B)
```
policy
 lists
  vpn-list VPN2-100
   vpn 2-100
  !
 !
 control-policy restrict_2-100
  sequence 10
   match route
    vpn-list  VPN2-100
   !
   action reject
  !
  default-action accept
```
C)
```
policy
 lists
  vpn-list VPN1
   vpn 1
  !
 !
 control-policy restrict_1
  sequence 10
   match route
    vpn-list  VPN1
   !
   action reject
  !
  default-action accept
```
D)

```
Policy
 lists
  vpn-list restricted_vpns
   vpn 2-100
  !
 !
 vpn-membership restrict_1
  sequence 10
   match vpn-list restricted_vpns
   action reject
   !
  !
  default-action accept
 !
!
```

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

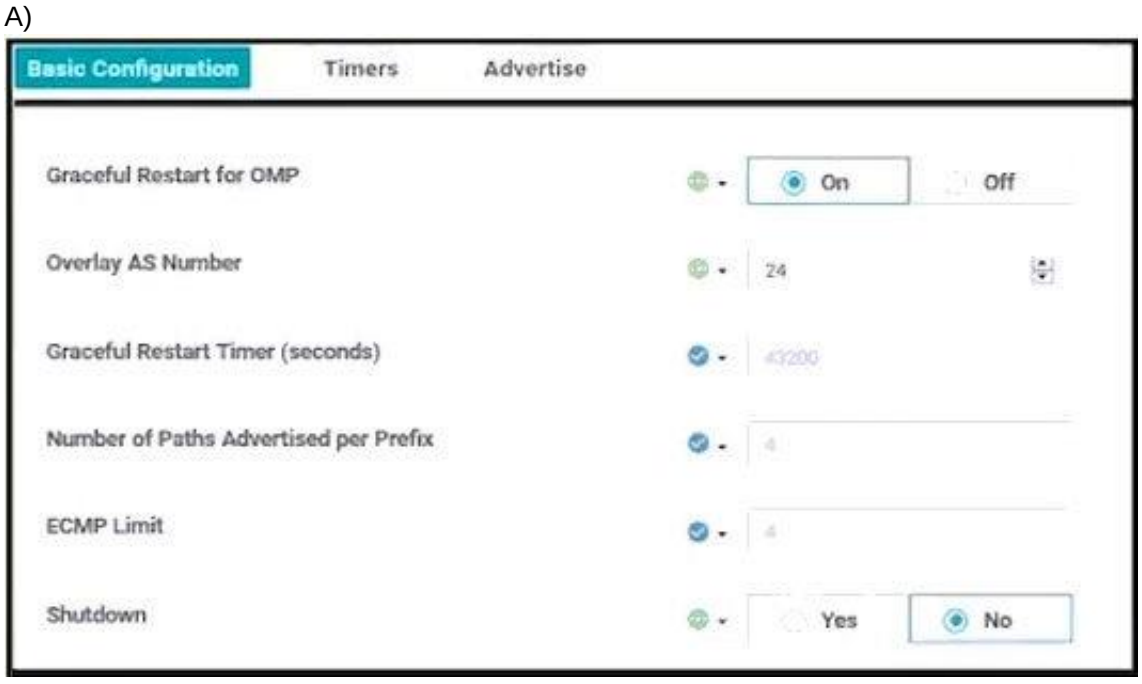
Answer: C

NEW QUESTION 77
What is the main purpose of using TLOC extensions in WAN Edge router configuration?

A. creates hardware-level transport redundancy at the local site
B. creates an IPsec tunnel from WAN Edge to vBond Orchestrator
C. transports control traffic to a redundant vSmart Controller
D. transports control traffic w remote-site WAN Edge routers

Answer: D

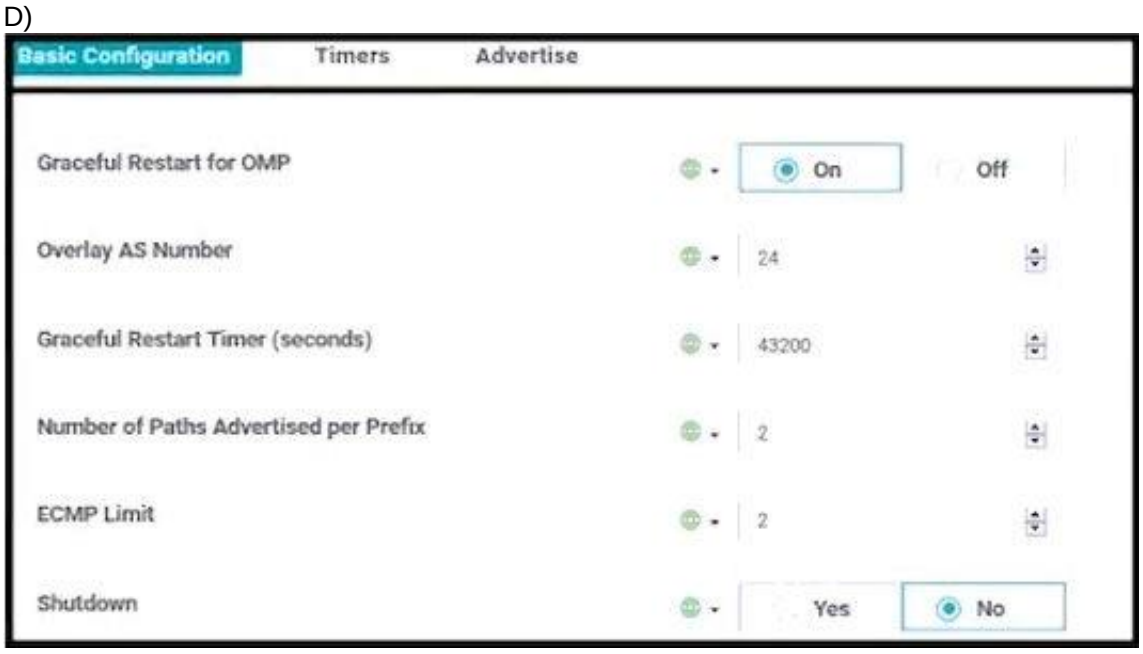
NEW QUESTION 81
An enterprise is continuously adding new sites to its Cisco SD-WAN network. It must configure any cached routes flushed when OMP peers have lost adjacency
Which configuration allows the cached OMP routes to be flushed after every 24 hours from its routing table?
A)



B)

C)

D)



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

Answer: B

NEW QUESTION 85
Which vBond system configuration under VPN 0 allows for a routable public IP address even if the DNS name, hostname, or IP address of the vBond orchestrator are omitted?

A. local
B. vbond-only
C. dns-name
D. WAN

Answer: A

NEW QUESTION 87
An enterprise deployed a Cisco SD-WAN solution with hub-and-spoke topology using MPLS as the preferred network over the Internet. A network engineer must implement an application-aware routing policy to allow ICMP traffic to be load-balanced over both the available links. Which configuration meets the requirement?
A)

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

B)

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

C)

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

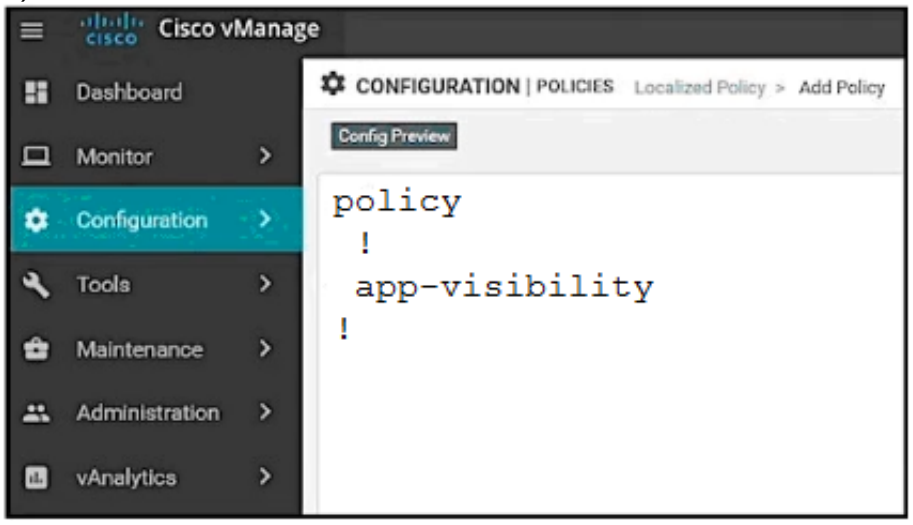
D)

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

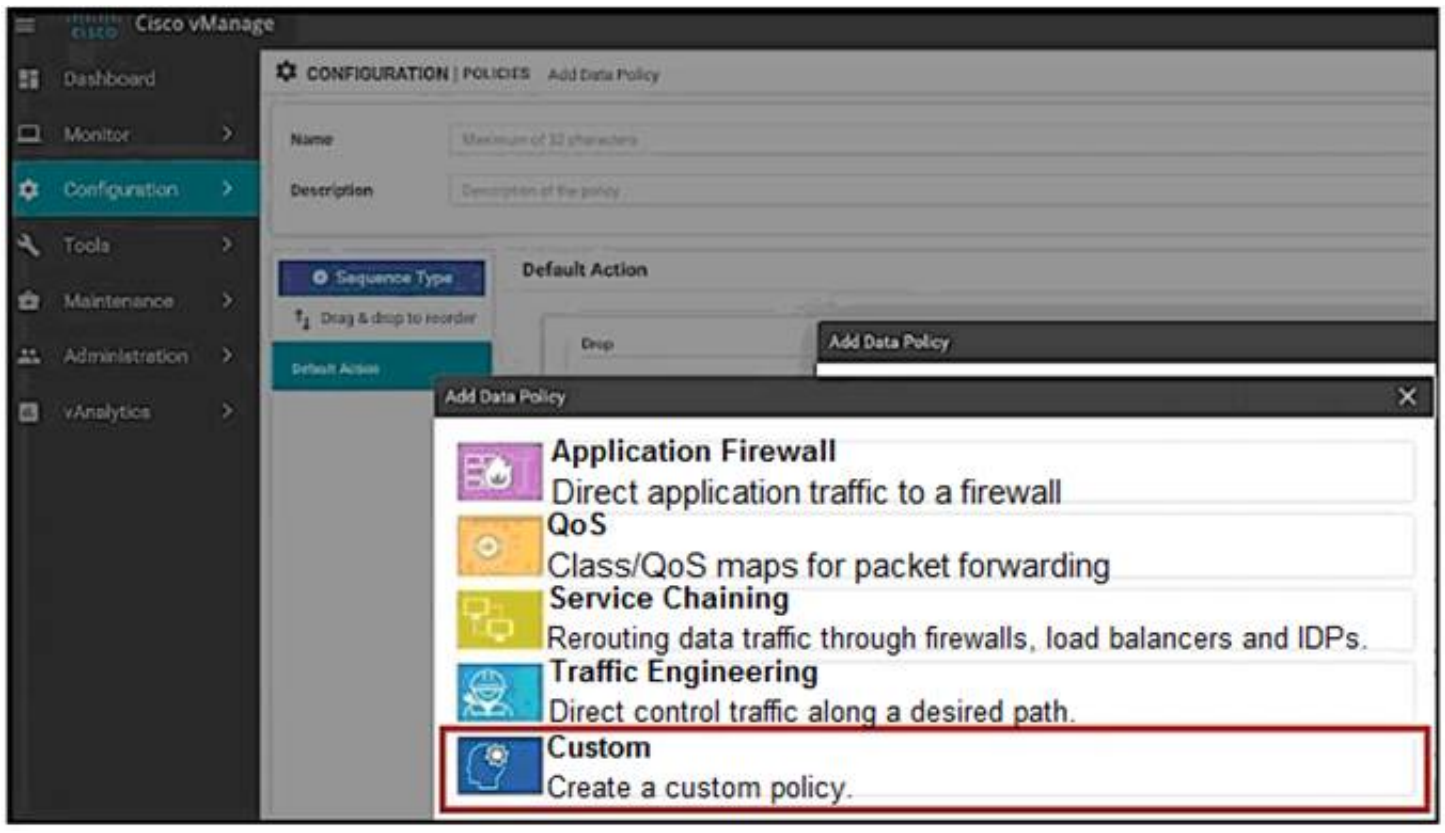
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

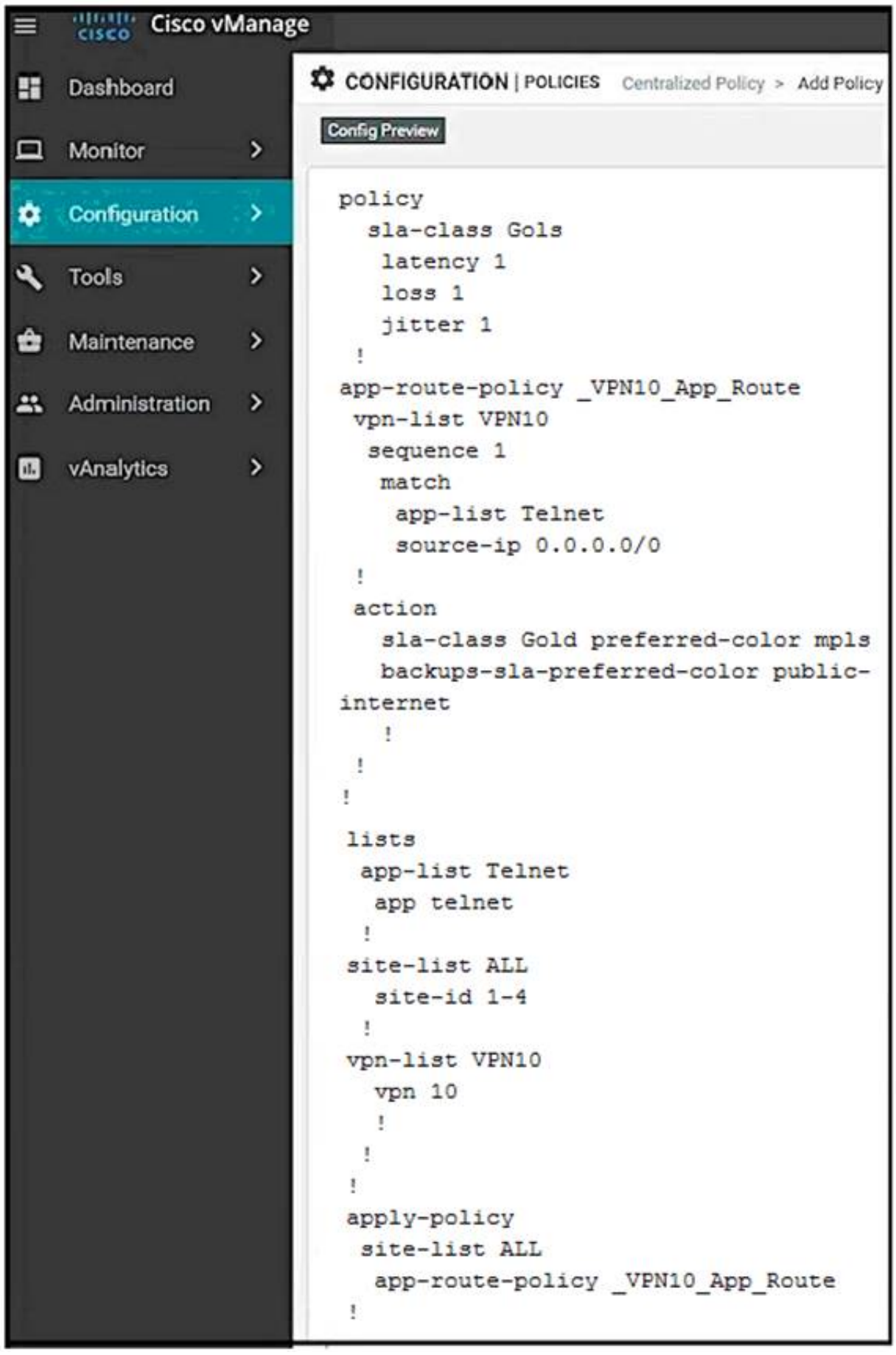
NEW QUESTION 92
An organization wants to discover, monitor, and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?
A)



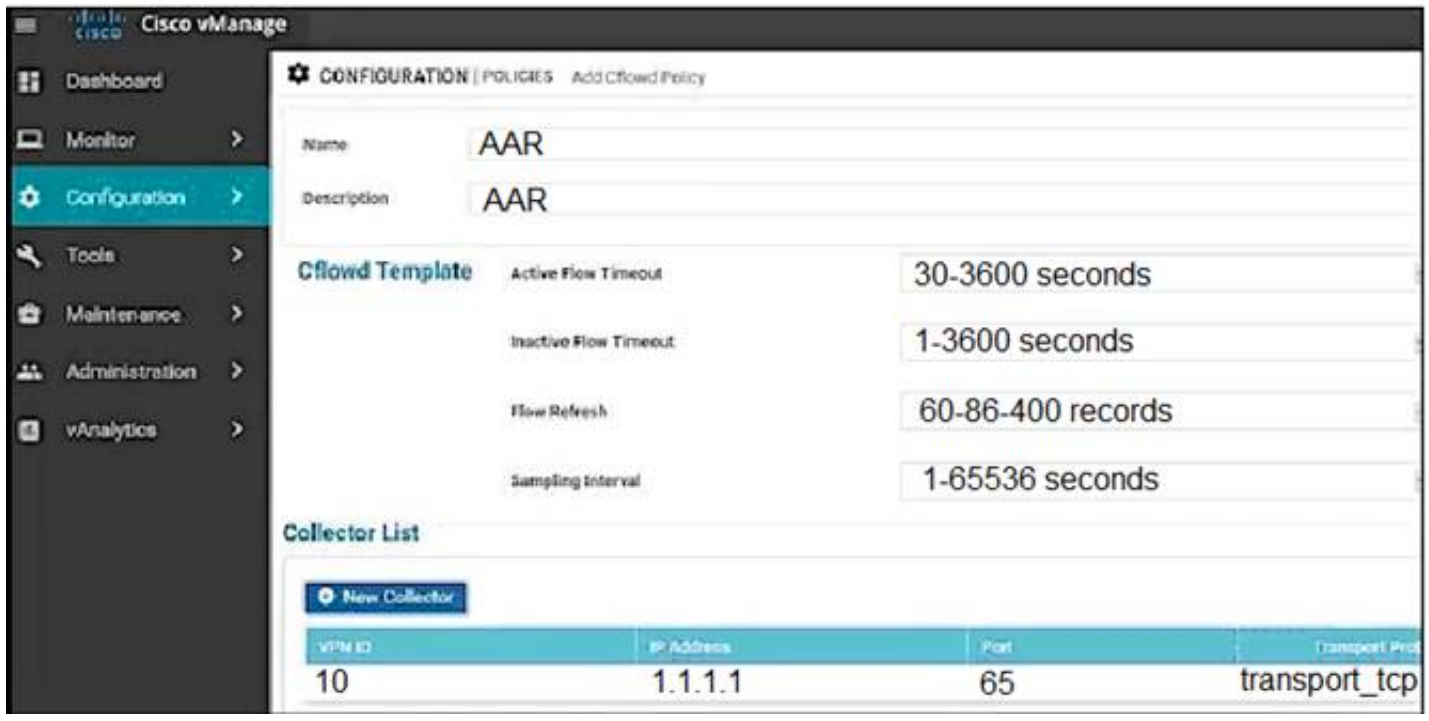
B)


Cisco vManage
Dashboard
Monitor
Configuration
Tools
Maintenance
Administration
vAnalytics
CONFIGURATION | POLICIES
Add Data Policy
Name
Description
Sequence Type
Default Action
Drag & drop to reorder
Drop
Add Data Policy
Application Firewall
Direct application traffic to a firewall
QoS
Class/QoS maps for packet forwarding
Service Chaining
Rerouting data traffic through firewalls, load balancers and IDPs.
Traffic Engineering
Direct control traffic along a desired path.
Custom
Create a custom policy.

C)


Cisco vManage
Dashboard
Monitor
Configuration
Tools
Maintenance
Administration
vAnalytics
CONFIGURATION | POLICIES
Centralized Policy > Add Policy
Config Preview
policy
sla-class Gols
latency 1
loss 1
jitter 1
!
app-route-policy _VPN10_App_Route
vpn-list VPN10
sequence 1
match
app-list Telnet
source-ip 0.0.0.0/0
!
action
sla-class Gold preferred-color mpls
backups-sla-preferred-color public-internet
!
!
!
lists
app-list Telnet
app telnet
!
site-list ALL
site-id 1-4
!
vpn-list VPN10
vpn 10
!
!
!
apply-policy
site-list ALL
app-route-policy _VPN10_App_Route
!

D)



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

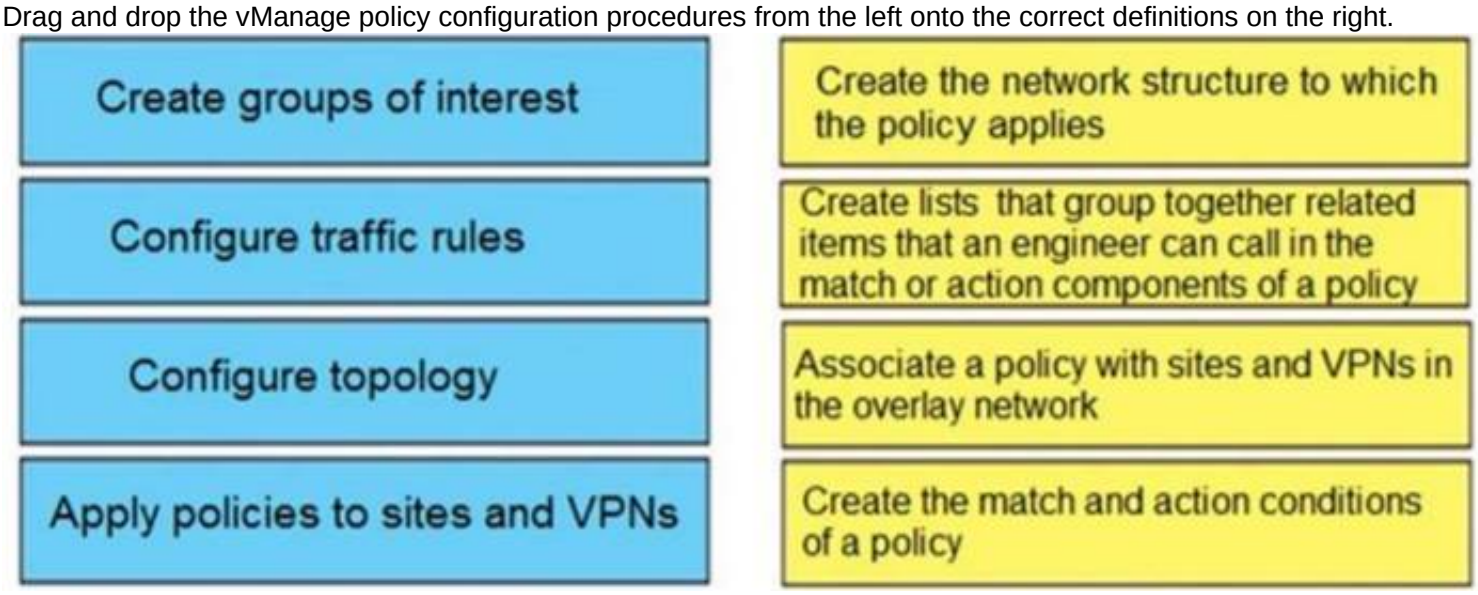
Answer: D

NEW QUESTION 97
Which two performance data details are provided by Cisco SO-WAN vAnalytics? (Choose two)

A. jitter loss and latency for data tunnels
B. application quality of experience score from zero to ten
C. detail on total cost of ownership for the fabric
D. certificate authority status (health and expiration dates) for all controllers
E. view devices connected to a vManage NMS

Answer: AB

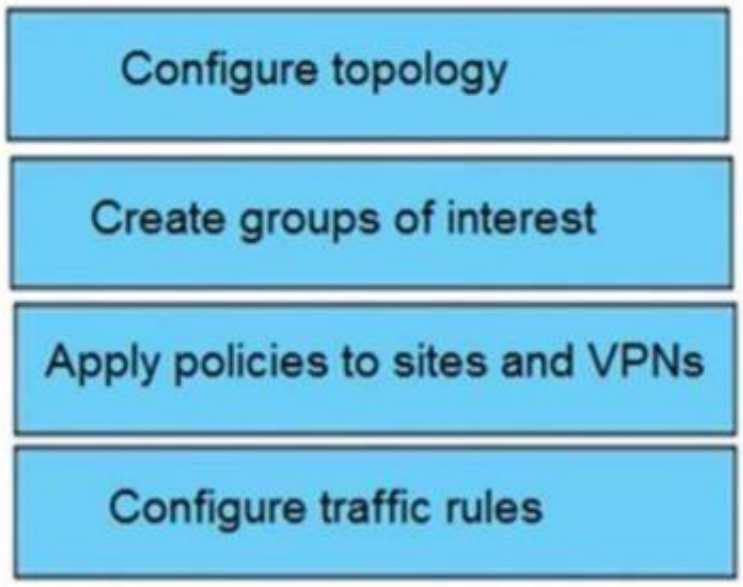
NEW QUESTION 100
Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 104
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 108
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 110
Which command verifies a policy that has been pushed to the vEdge router?

A. vEdge# show running-config data policy
B. vEdge# show policy from-vsmart
C. vSmart# show running-config policy
D. vSmart# show running-config apply-policy

Answer: B

NEW QUESTION 113
A vEdge platform is sending VRRP advertisement messages every 10 seconds. Which value configures the router back to the default timer?

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

Answer: C

NEW QUESTION 115
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

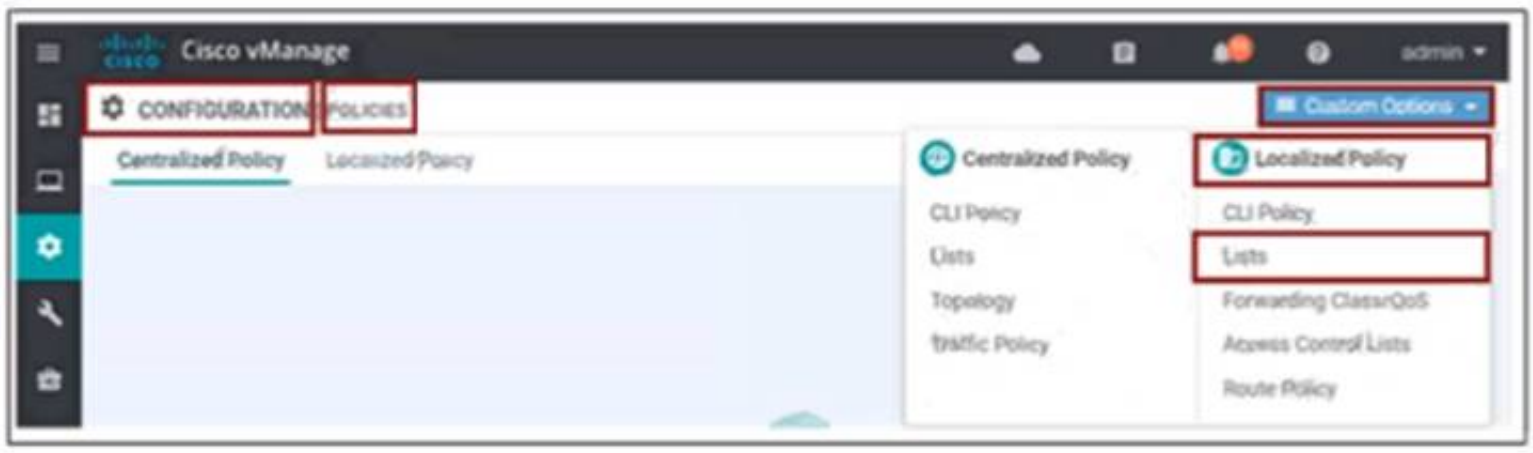
NEW QUESTION 119
An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

A)

B)

C)

D)



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

Answer: D

NEW QUESTION 121
A policy is created to influence routing path in the network using a group of prefixes. What policy application will achieve this goal when applied to a site List?

A. vpn-membership policy
B. cflowd-template
C. app-route policy
D. control-policy

Answer: D

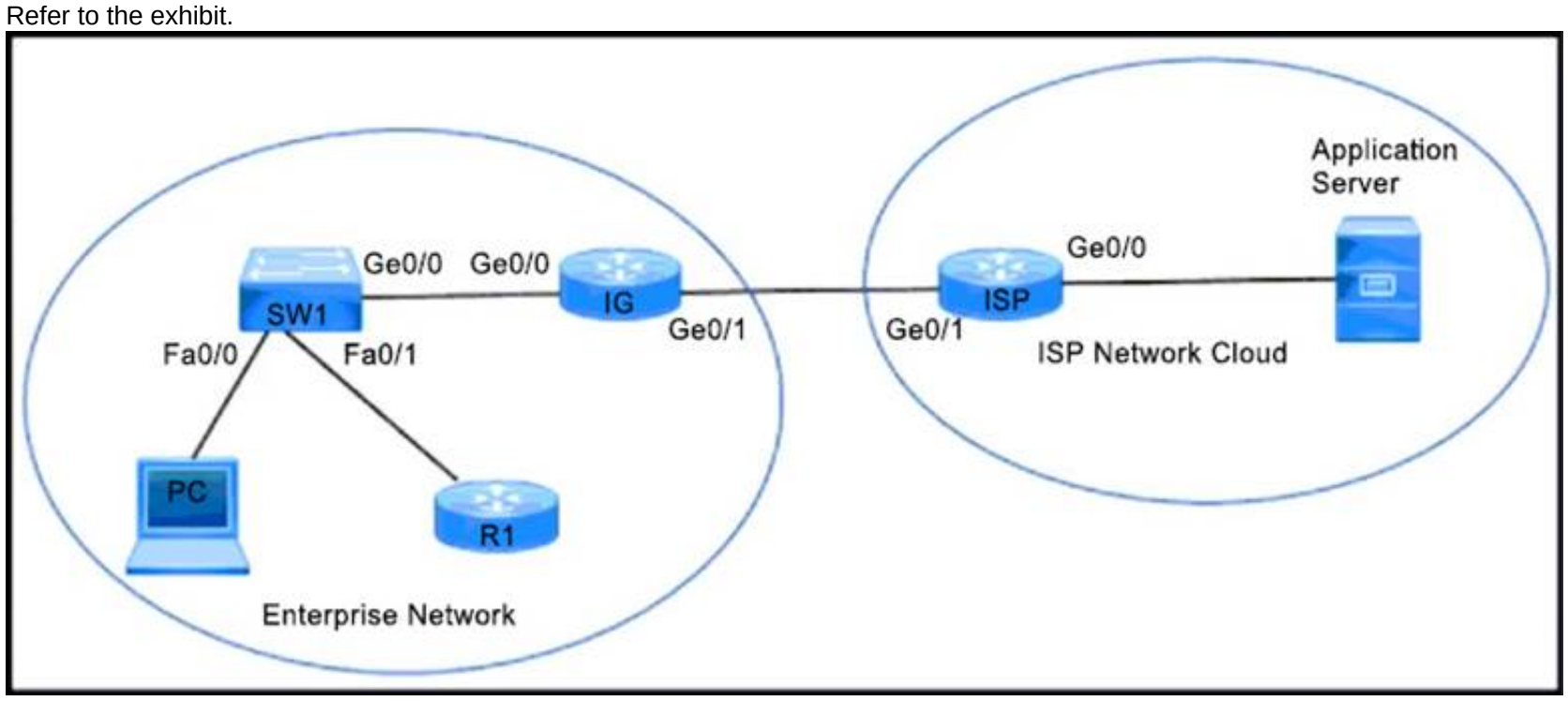
NEW QUESTION 125
Which VManage dashboard is used to monitor the next-hop reachability between two devices traversing through OMP for a service VPN'

A. Troubleshooting > App Route Visualization
B. Troubleshooting > Tunnel Health

C. Troubleshooting > Simulate Flows
D. Troubleshooting > Packet Capture

Answer: C

NEW QUESTION 127
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 ***
```

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

Answer: B

NEW QUESTION 131
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 lo vSmart controllers

Answer: CD

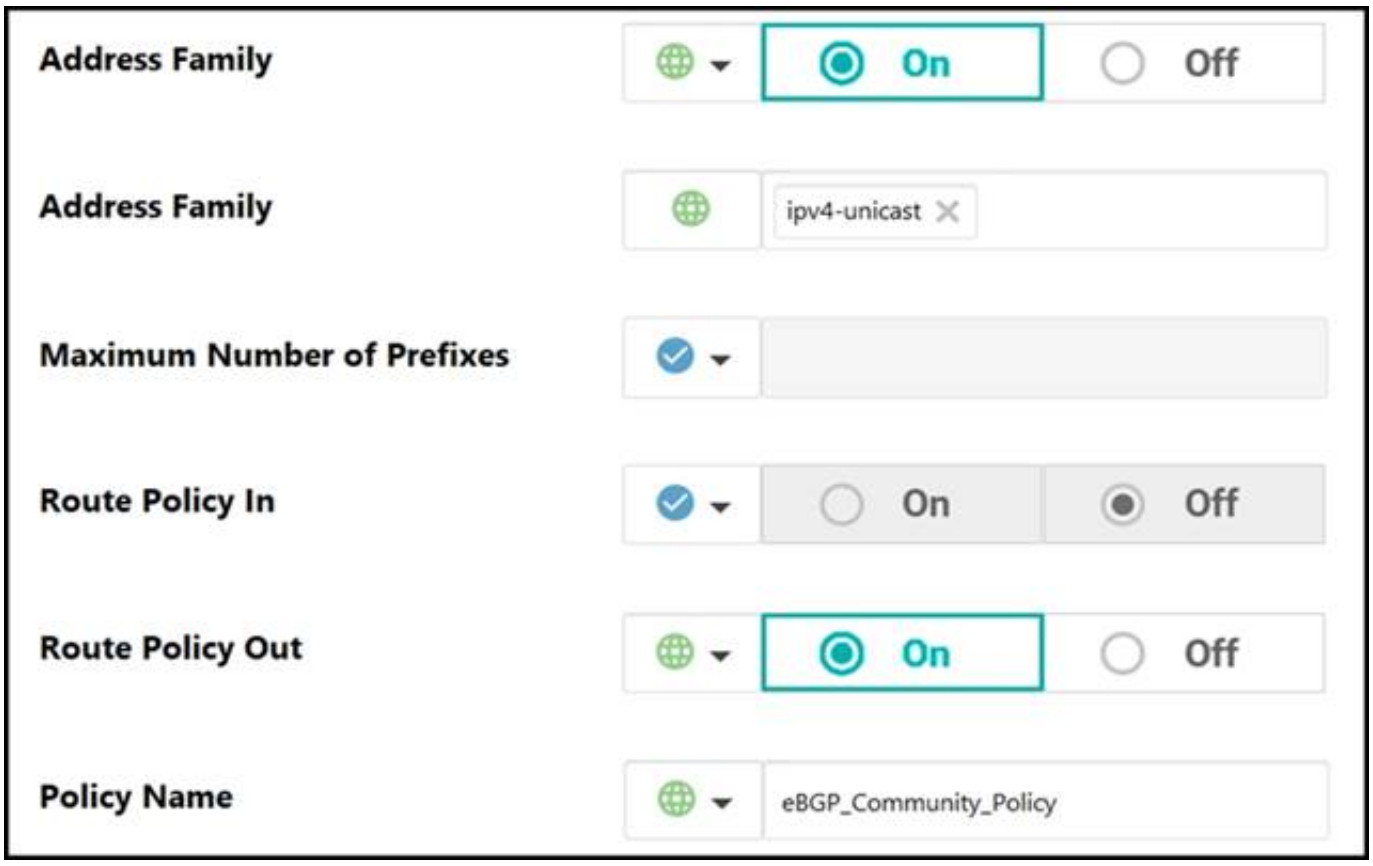
NEW QUESTION 136
A voice packet requires a latency of 50 msec. Which policy is configured to ensure that a voice packet is always sent on the link with less than a 50 msec delay?

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

Answer: D

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

NEW QUESTION 140
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 144
In a customer retail network with multiple data centers, what does the network administrator use to create a regional hub topology?

A. control policy on vManage
B. control policy on vSmart
C. data policy on vSmart
D. app route policy on vSmart

Answer: A

NEW QUESTION 147
How are policies deployed on cloud-tiosted Cisco SD-WAN controllers?

A. Policies are created on vSmart and enforced by vSmart
B. Policies are created on vSmart and enforced by vManage
C. Policies are created on vManage and enforced by vManage.
D. Policies are created on vManage and enforced by vSman

Answer: A

NEW QUESTION 151
Which component of the Cisco SD-WAN architecture oversees the control plane of overlay network to establish, adjust, and maintain the connections between the WAN Edge devices that form the Cisco SD-WAN fabric?

A. APIC-EM
B. vManage
C. vSmart
D. vBond

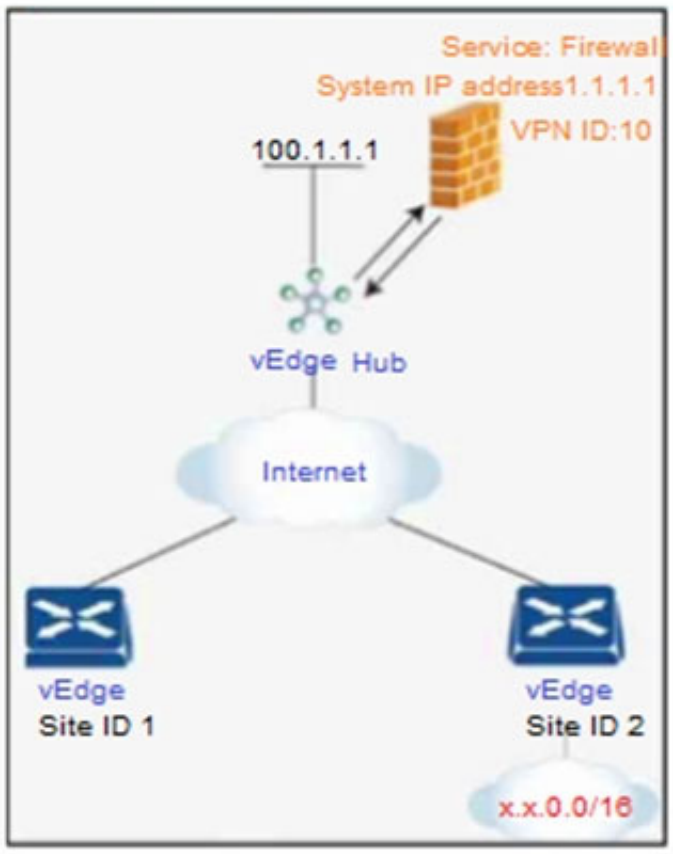
Answer: C

Explanation:

Cisco vSmart Controller

The Cisco vSmart Controller oversees the control plane of the Cisco SD-WAN overlay network, establishing, adjusting, and maintaining the connections that form the Cisco SD-WAN fabric.

NEW QUESTION 152
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 156
Which template configures the out-of-band management VPN?
A)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Global	No
	Interface Name	Global	loopback0
IPv4 configuration	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn1_lo0_int_ip_addr/maskbits

B)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Global	No
	Interface Name	Device Specific	vpn512_mgt_int_mgmt0_or_gex/x
	Description	Global	Management Interface
IPv4 configuration	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn512_mgt_int_ip_addr/maskbits

C)

Section	Parameter	Type	Variable/value
Basic configuration	VPN	Global	512
	Name	Global	Management VPN
IPv4 Route	Prefix	Global	0.0.0.0/0
	Gateway	Radio button	Next Hop
	Next Hop	Device Specific	vpn512_mgt_next_hop_ip_addr

D)

Section	Parameter	Type	Variable/value
Basic configuration	Shutdown	Device Specific	vpn1_lan_int2_shutdown
	Interface Name	Device Specific	vpn1_lan_int2_gex/x
IPv4 configuration	Description	Device Specific	vpn1_lan_int2_description
	IPv4 Address	Radio button	Static
	IPv4 Address	Device Specific	vpn1_lan_int2_ip_addr/maskbits

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

Answer: C

NEW QUESTION 157
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 159
Which protocol is used to measure jitter, loss, and latency on SD-WAN overlay tunnels?

A. QoE
B. OMP
C. BGP
D. BFD

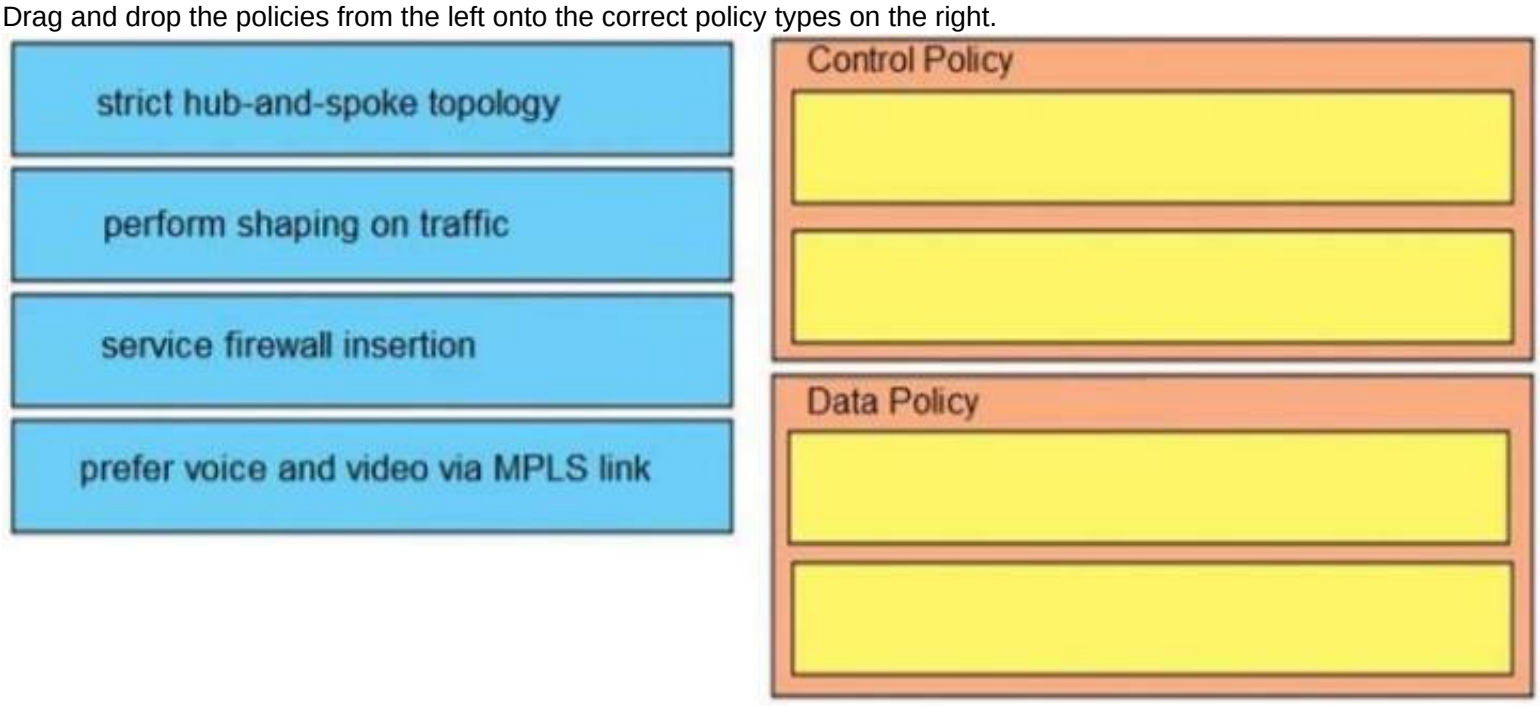
Answer: D

NEW QUESTION 164
Which SD-WAN component detects path performance information in the organization to report the issue to the service provider at site ID:S4288T5E44F04?

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

Answer: B

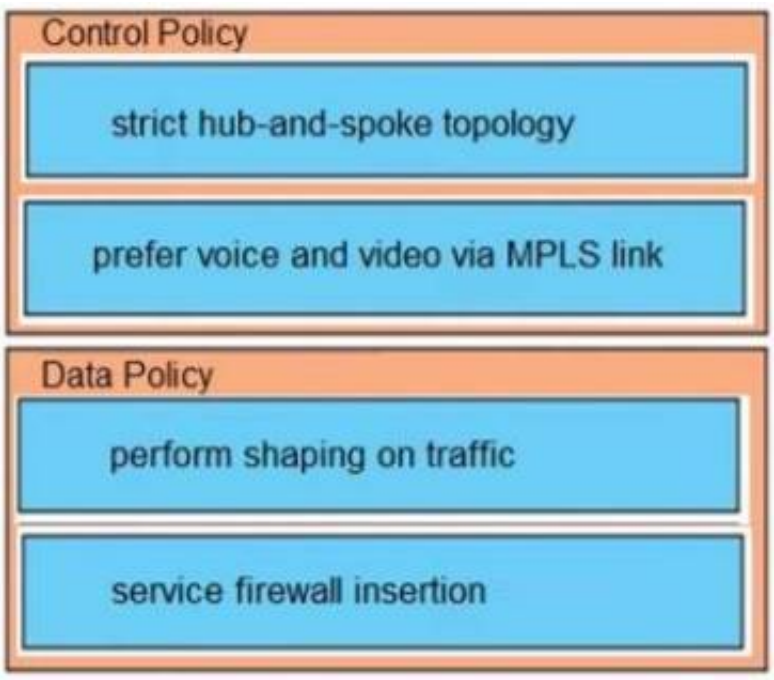
NEW QUESTION 165
Drag and drop the policies from the left onto the correct policy types on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 167
Which two features does the application firewall provide? (Choose two.)

A. classification of 1400+ layer 7 applications
B. blocks traffic by application or application-family
C. numbered sequences of match-action pairs
D. classification of 1000+ layer 4 applications
E. application match parameters

Answer: AB

Explanation:

This application aware firewall feature provides the following benefits:

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

NEW QUESTION 168
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

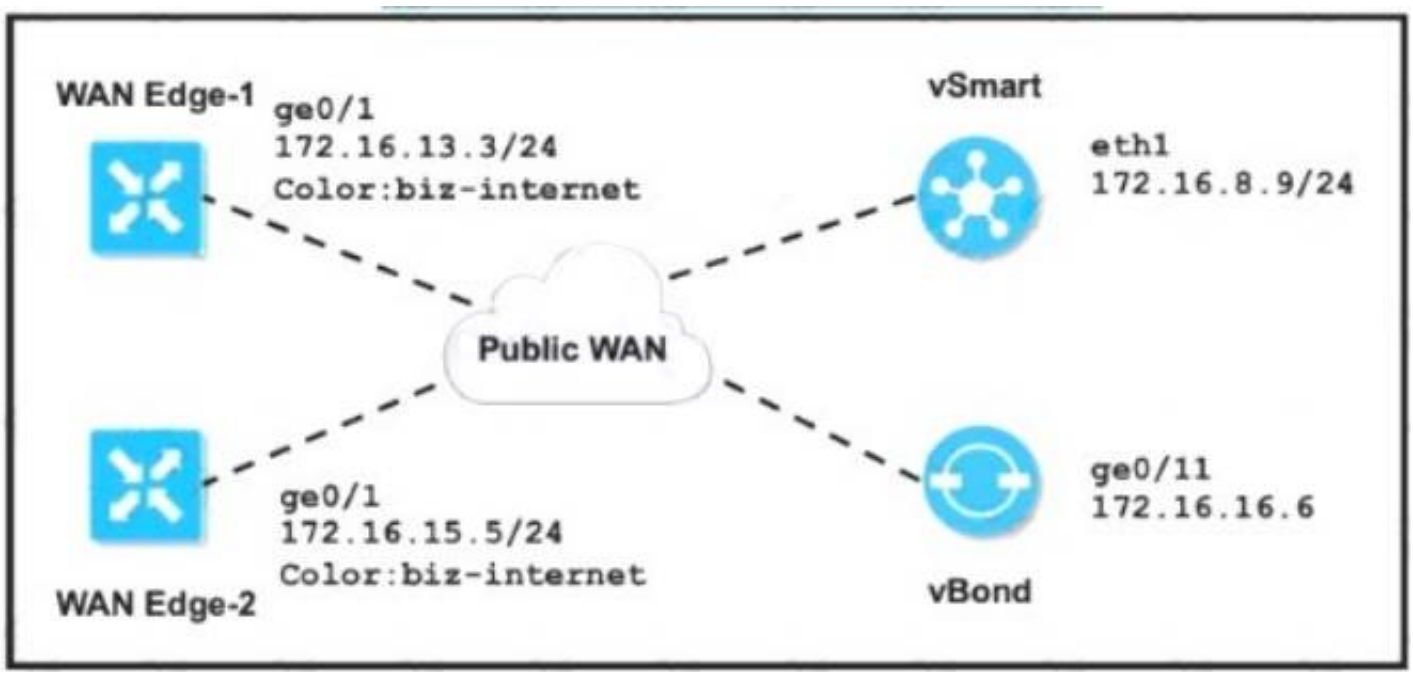
Answer: A

NEW QUESTION 172
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 177
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 172.16.15.5/24
 !
 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 172.16.15.5/24
 !
 ip route 0.0.0.0/0 172.16.8.1
```

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

Answer: B

Explanation:
https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/02System_a

NEW QUESTION 180
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 181
What is the order of operations for software upgrades of Cisco SD-WAN nodes'?

A. vBond vManage vSmart WAN Edge
B. vManage vBond WAN Edg
C. vSmart
D. vManage vSmart, vBond, WAN Edge
E. vManage vBond vSraart WAN Edge

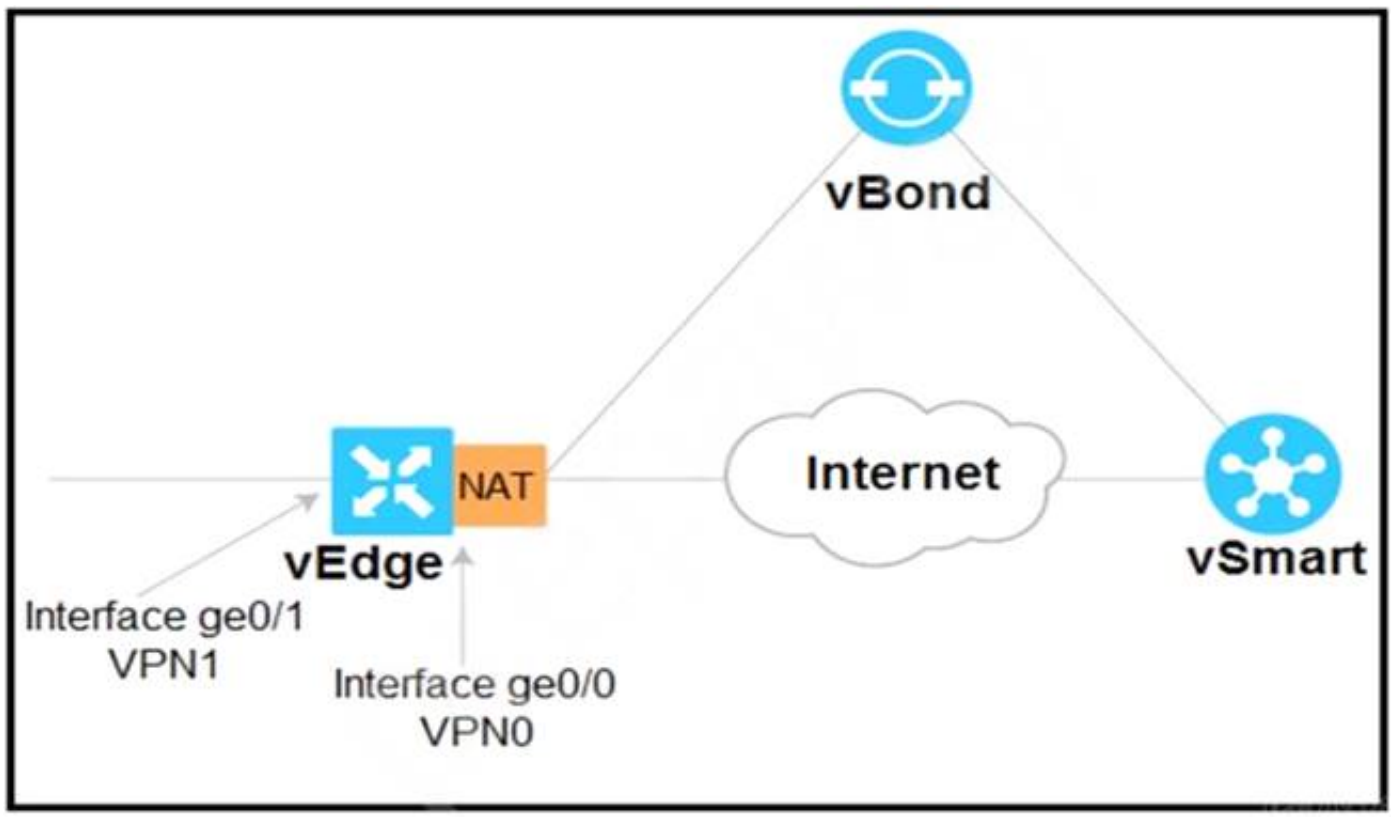
Answer: D

NEW QUESTION 182
Which two vRoute attributes should be matched or set in vSmart policies and modified by data policies? (Choose two.)

A. site ID
B. preference
C. VPN
D. TLOC
E. origin

Answer: BC

NEW QUESTION 183
Refer to the exhibit



Which configuration sets up direct Internet access for VPN 1?

```
vpn 1
  ...
  interface ge0/1
    ...
    nat
  !
  no shutdown
...
vpn 0
  ...
  ip route 0.0.0.0/0 vpn 1
```

```
vpn 1
  ...
  interface ge0/0
    nat
  !
  no shutdown
...
vpn 0
  ...
  ip route 0.0.0.0 vpn 1
```

```
vpn 0
  ...
  interface ge0/1
    ...
    ip nat
  !
  no shutdown
...
vpn 1
  ...
  ip route 0.0.0.0/0 vpn 0
```

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

Answer: C

NEW QUESTION 184
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