Cisco

Exam Questions 300-415

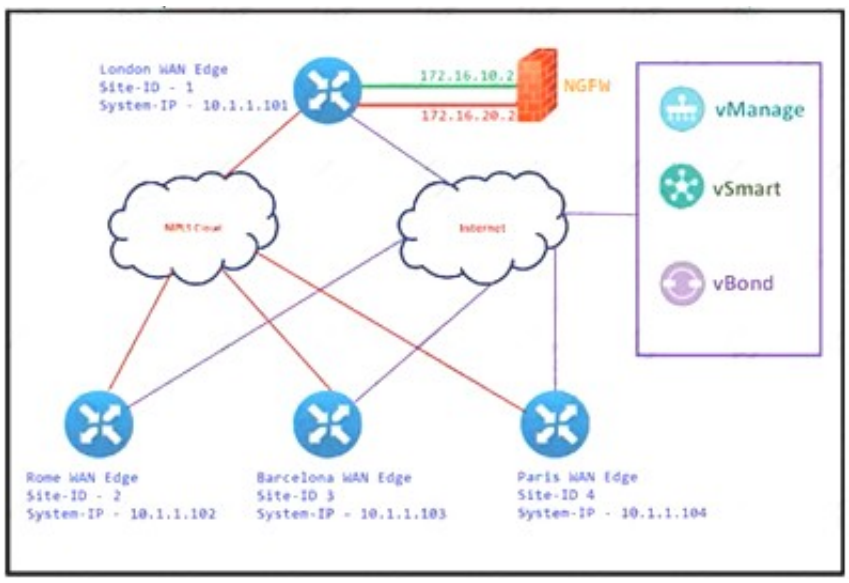
Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
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 2
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 Sen/ice 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 3
An engineer is configuring a centralized policy to influence network route advertisement. Which controller delivers this policy to the fabric?

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

Answer: A

Explanation:

vSmart controllers are the centralized brain of the solution; they implement policies and connectivity between SD-WAN branches. The centralized policy engine in Cisco vSmart controllers provides policy constructs to manipulate routing information, access control, segmentation, extranets, and service chaining.

NEW QUESTION 4
Which two platforms for the Cisco SD-WAN architecture are deployable in a hypervisor on-premises or in IAAS Cloud? (Choose two.)

A. CSR 1000v
B. vEdge 100c
C. vEdge Cloud
D. vEdge 2000
E. ISR 4431

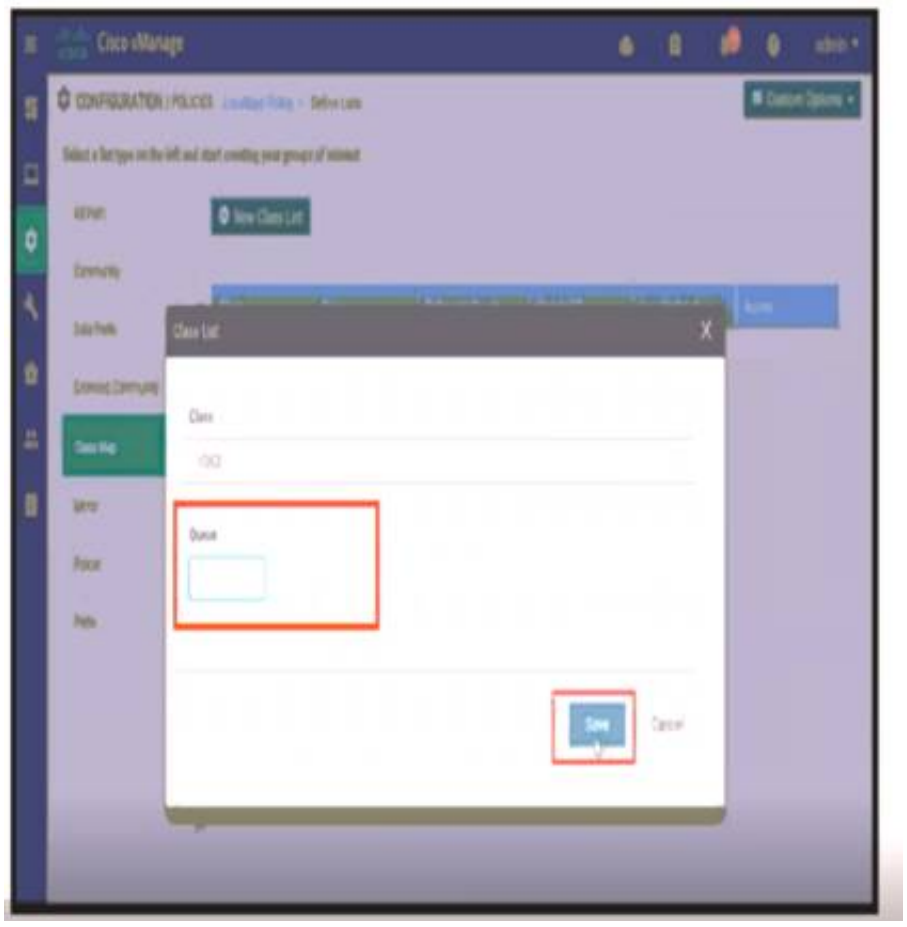
Answer: AC

NEW QUESTION 5
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 6
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 7
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 8
Which hardware component is involved in the Cisco SD-WAN authentication process for ISR platforms?

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

Answer: D

NEW QUESTION 9
On which device is a service FW address configured to Insert firewall service at the hub?

A. vEdge at the branch
B. vSmart at the hub
C. vEdge at the hub
D. vSmart at the branch

Answer: C

NEW QUESTION 10
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
An engineer is configuring a data policy for IPv4 prefixes for a single WAN Edge device on a site with multiple WAN Edge devices How is this policy added using the policy configuration wizard?

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

Answer: A

NEW QUESTION 12
Refer to the exhibit

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

An engineer is getting a CTORGNMMIS error on a controller connection Which action resolves this issue?

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

Answer: B

NEW QUESTION 13
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 18
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 22
Which two requirements must be met for DNS inspection when integrating with cisco umbrella? (Choose two)

A. Upload the WAN Edge serial allow list to the Umbrella portal.
B. Attach security policy to the device template.
C. Configure the Umbrella token on the vManage
D. Create and attach a System feature template with the Umbrella registration credentials.
E. Register and configure the vManage public IP and serial number in the Umbrella portal.

Answer: BC

Explanation:
https://www.connection.com/~/media/pdfs/brands/c/cisco/security/cnxn-cisco-sd-wan-and-umbrella.pdf?la=en

NEW QUESTION 26
An engineer must apply the configuration for certificate installation to vBond Orchestrator and vSmart Controller. Which configuration accomplishes this task?

```
vpn 512
 interface eth1
  ip address 199.1.1.1/28
  tunnel-interface
   allow-service netconf
   no allow-service ntp
   no allow-service stun

vpn 0
 interface eth1
  ip address 199.1.1.1/28
  tunnel-interface
   allow-service sshd
   allow-service ntp

vpn 512
 interface eth1
  ip address 199.1.1.1/28
  tunnel-interface
   allow-service sshd
   allow-service netconf

vpn 0
 interface eth1
  ip address 199.1.1.1/28
  tunnel-interface
   allow-service sshd
   allow-service netconf
  no shutdown
```

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

Answer: D

NEW QUESTION 31
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 34
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 37
What are the two impacts of losing vManage connectivity to fabric in the Cisco SD-WAN network? (Choose two)

A. Policy changes propagation stops
B. Statistics collection stops
C. BFD peering between WAN Edge devices are unestablished
D. Creation of templates is impossible
E. IPsec tunnels tear down for WAN Edge devices.

Answer: AB

NEW QUESTION 40
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 41
Which component is used for stateful inspection of TCP, UDP. and ICMP flows in Cisco SD-WAN firewall policies?

A. zones
B. sites
C. subnets
D. interfaces

Answer: A

NEW QUESTION 45
Drag and drop the devices from the left into order on the right to upgrade the software from version 19 to version 20.

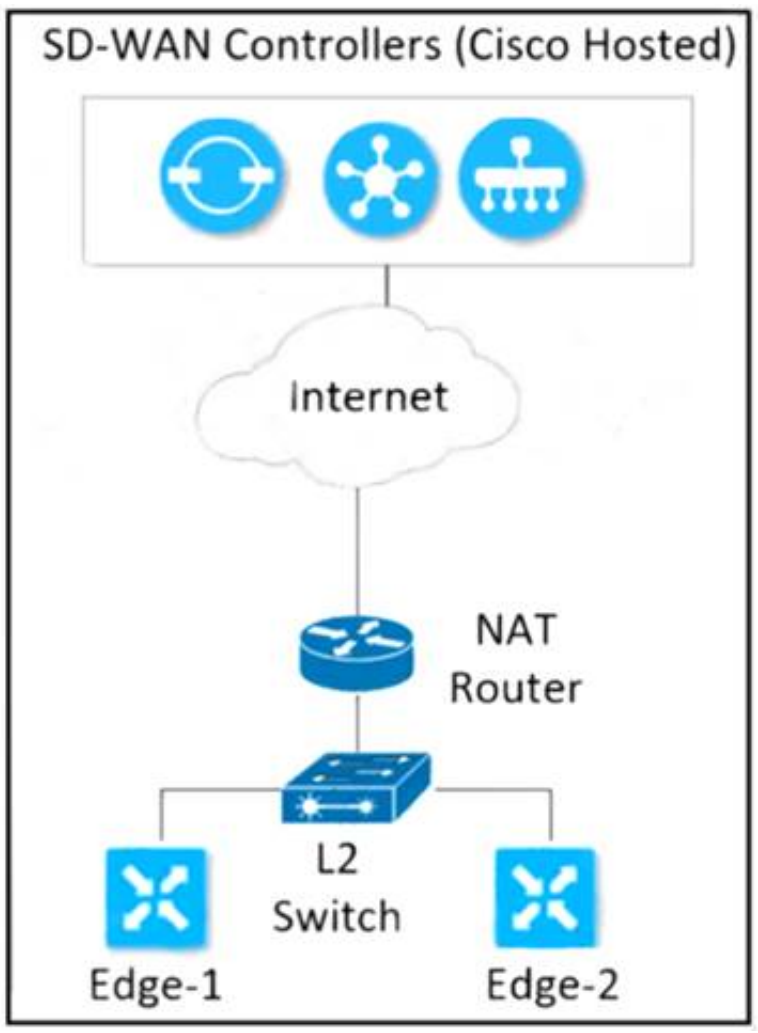
WAN Edge	1
vBond	2
vManage	3
vSmart	4

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 50
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 52
Which component of the Cisco SD-WAN control plane architecture should be located in a public Internet address space and facilitates NAT-traversal?

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

Answer: A

NEW QUESTION 54
A network administrator is configuring a centralized control policy based on match action pairs for multiple conditions, which order must be configured to prefer Prefix List over TLOC and TLOC over Origin?

A. highest to lowest sequence number
B. nonsequential order
C. deterministic order
D. lowest to highest sequence number

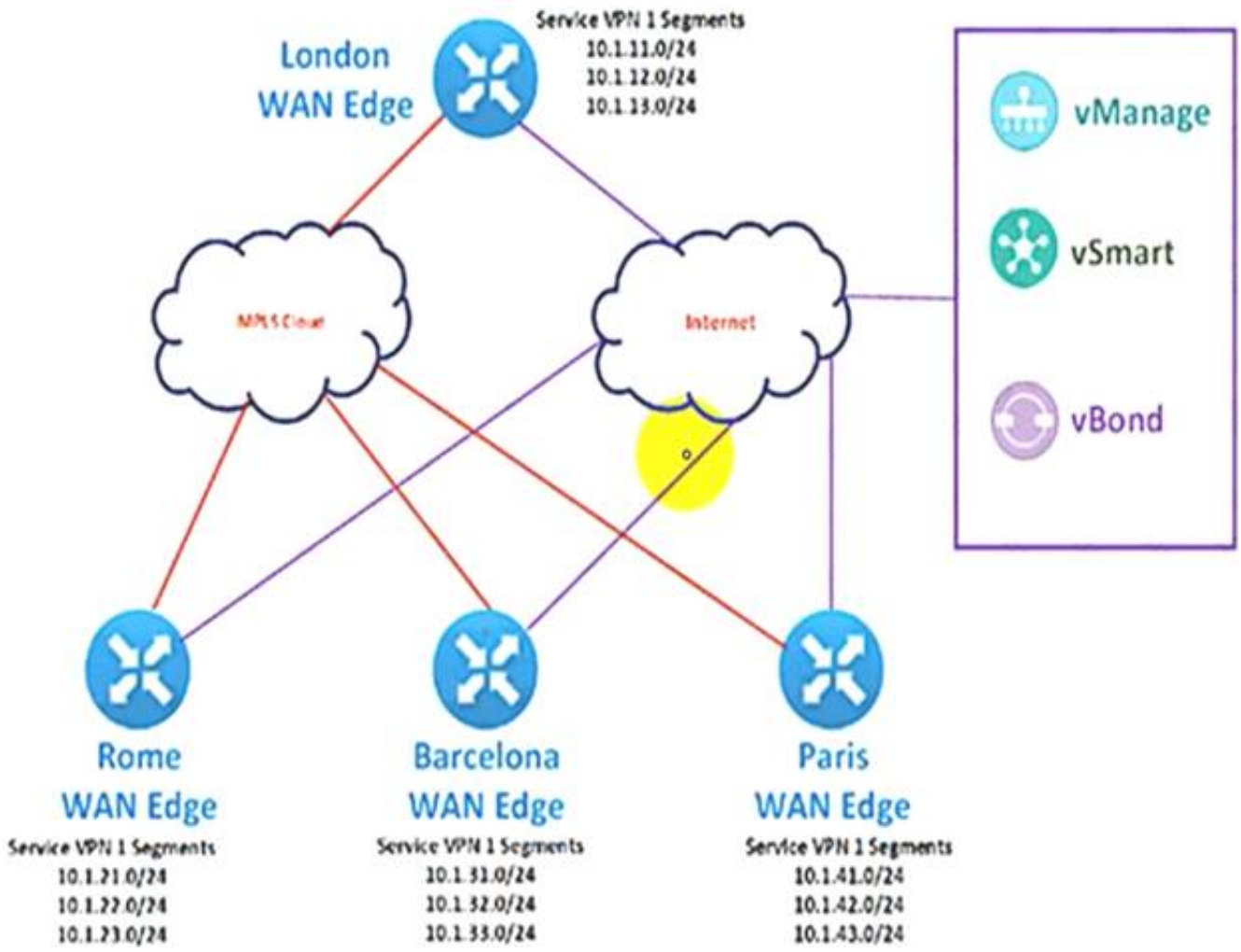
Answer: D

Explanation:

A centralized control policy consists of a series of numbered (ordered) sequences of match-action pairs that are evaluated in order, from lowest sequence number to highest sequence number. When a route or TLOC matches the match conditions, the associated action or actions are taken and policy evaluation on that packets stops. Keep this process in mind as you design your policies to ensure that the desired actions are taken on the items subject to policy.

If a route or TLOC matches no parameters in any of the sequences in the policy configure, it is, by default, rejected and discarded.

NEW QUESTION 56
Refer to the exhibit.



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

A)

B)

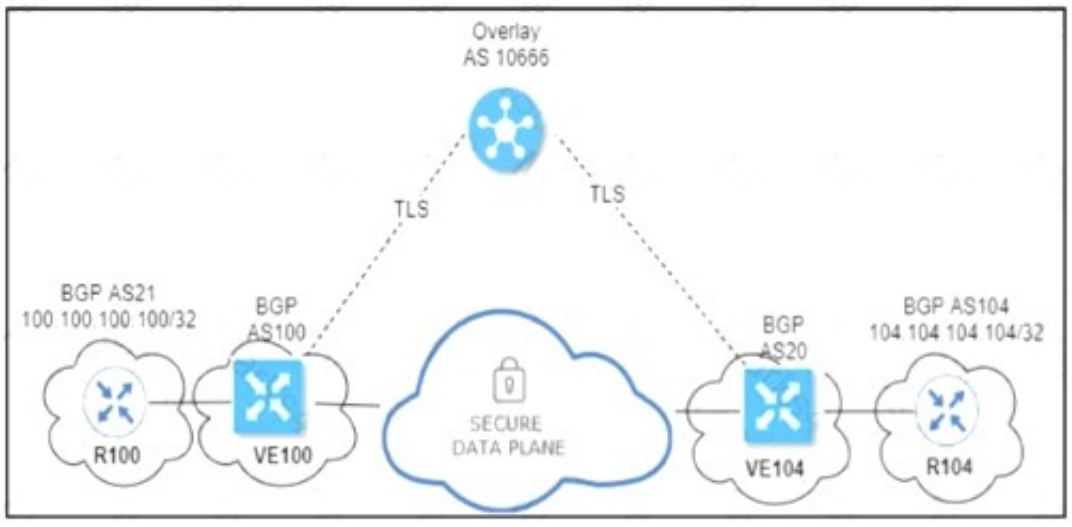
C)

D)

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

Answer: A

NEW QUESTION 57
Refer to the exhibit.



An ongineer configured OMP with an ovorlay-as of 10666. What is tho AS-PATH for prefix 104.104.104.104/32 on R1007?

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

Answer: A

NEW QUESTION 61
Which platform is a Cisco SD-WAN virtual platform?

A. Cisco ISR 4000
B. Cisco Nexus 1000V
C. Cisco CSR 1000V
D. Cisco ASR 1000

Answer: C

NEW QUESTION 62
Which configuration step is taken on vManage after WAN Edge list is uploaded?

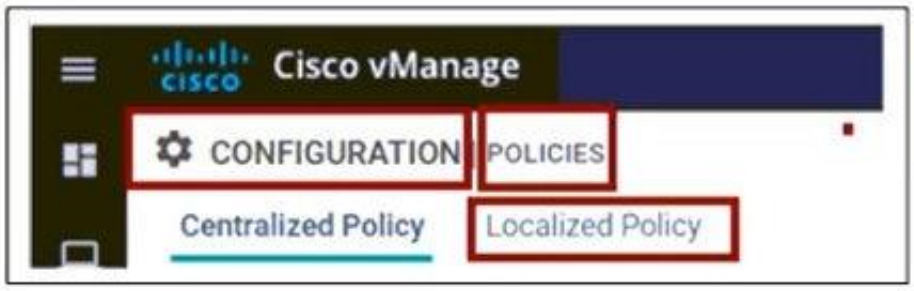
A. Send the list to controllers
B. Enable the ZTP process
C. Verify the device certificate
D. Set the device as valid

Answer: D

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

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

NEW QUESTION 67
A network engineer must configure all branches to communicate with each other through the Service Chain Firewall located at the headquarters site. Which configuration allows the engineer to accomplish this task?
A)



B)

C)

D)

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

Answer: B

NEW QUESTION 71
Which routing protocol has the highest default administrative distance?

A. OMP
B. external EIGRP
C. IS-IS
D. IBGP

Answer: A

NEW QUESTION 76
A network administrator is configuring VRRP to avoid a traffic black hole when the transport side of the network is down on the master device. What must be configured to get the fastest failover to standby?

A. lower timer interval
B. prefix-list tracking
C. higher group ID number
D. OMP tracking

Answer: B

Explanation:

```
vEdge(config-vrrp)# track-prefix-list list-name
```

If all OMP sessions are lost, VRRP failover occurs as described for the **track-omp** option. In addition, if reachability to all the prefixes in the list is lost, VRRP failover occurs immediately, without waiting for the OMP hold timer to expire, thus minimizing the amount of overlay traffic is dropped while the vEdge routers determine the VRRP master.

NEW QUESTION 77
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 79
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 84
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 86
What is the default value for the number of paths advertised per prefix in the OMP feature template?

A. 4
B. 8

C. 12
D. 16

Answer: C

NEW QUESTION 87
Which feature delivers traffic to the Cisco Umbrella SIG cloud from a Cisco SD-WAN domain?

A. L2TPv3 tunnel
B. IPsec tunnel
C. local umbrella agent
D. source NAT

Answer: B

NEW QUESTION 92
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 97
A company deploys a Cisco SD-WAN solution but has an unstable Internet connection. When the link to vSmart comes back up, the WAN Edge router routing table is not refreshed, and some traffic to the destination network is dropped. The headquarters is the hub site, and it continuously adds new sites to the SD-WAN network. An engineer must configure route refresh between WAN Edge and vSmart within 2 minutes. Which configuration meets this requirement?

- omp
  no shutdown
  graceful-restart
  timers
  eor-timer 120

- omp
  no shutdown
  no graceful-restart

- omp
  no shutdown
  graceful-restart
  timers
  holdtime 120

- omp
  no shutdown
  graceful-restart
  timers
  advertisement-interval 120

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

Answer: A

NEW QUESTION 99
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 create?

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

Answer: A

NEW QUESTION 102
Which protocol advertises WAN edge routes on the service side?

A. EIGRP
B. OSPF
C. BGP
D. ISIS

Answer: B

NEW QUESTION 106
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 111
Refer to the exhibit.

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT	PEER PUBLIC IP	PUBLIC PORT	CONTROLLER LOCAL COLOR	GROUP STATE
UPTIME	ID									
vbond	dtls	-	0	0	1.3.25.25	12346	1.3.25.25	12346	gold	**connect** 0
vbond	dtls	-	0	0	1.3.25.25	12346	1.3.25.25	12346	silver	**connect** 0

An engineer is troubleshooting a control connection Issue. What does "connect" mean in this how control connections output?

A. Control connection is down
B. Control connection is connected
C. Control connection attempt is in progress
D. Control connection is up

Answer: C

NEW QUESTION 116
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 118
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 122
Refer to the exhibit

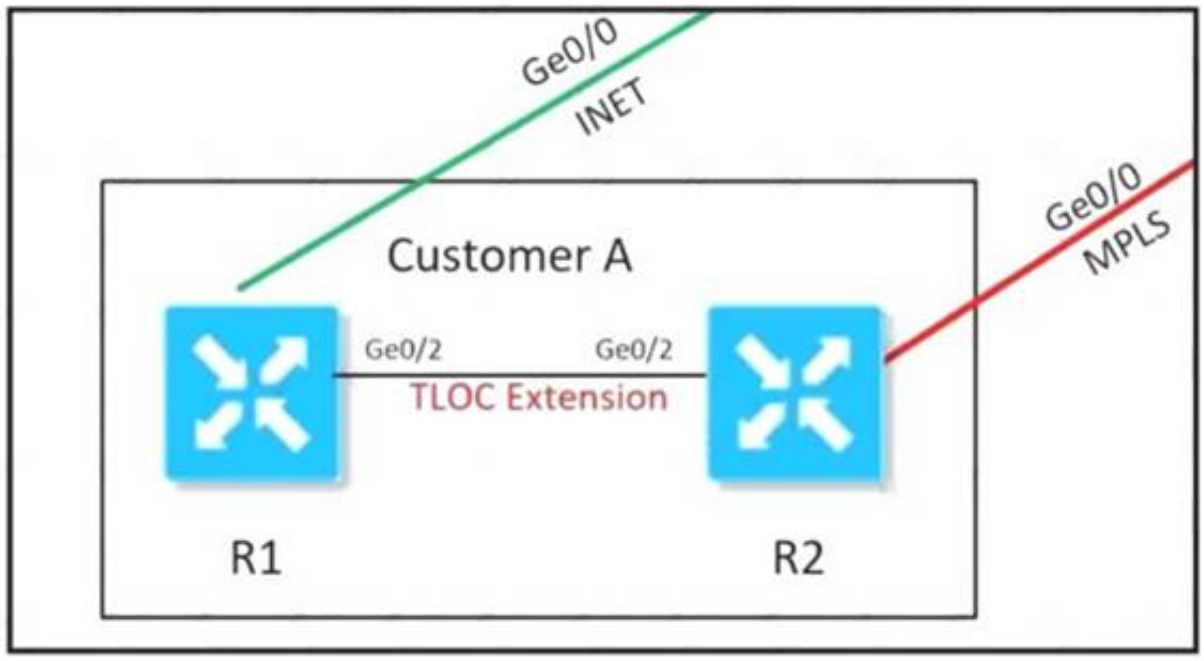
```
vManage#show control local-properties
    personality                 vmanage
    sp-organization-name        Cisco
    organization-name           Cisco
    system-ip                   10.1.1.10
    root-ca-chain-status        Installed
    certificate-status          Installed
```

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 systom IP on the vBond controller.
D. Configure a valid vBond IP on vManage.

Answer: D

NEW QUESTION 123
Refer to the exhibit.



An MPLS connection on R2 must extend to R1 Users behind R1 must have dual connectivity for data traffic Which configuration provides R1 control connectivity over the MPLS connection?

A)

```
R1
 interface ge0/2
  ip address 34.34.34.1/30
  tloc-extension ge0/1
  tunnel-interface
   color mpls

R2
interface ge0/2
  ip address 34.34.34.2/30
  tloc-extension ge0/0
  tunnel-interface
    color public-internet
```

B)

```
R1
 interface ge0/2
  ip address 34.34.34.1/30
  tloc-extension ge0/1

R2
interface ge0/0
  ip address 34.34.34.2/30
  tunnel-interface
    color mpls
```

C)

```
vpn 0
router
  ospf
    redistribute omp route-policy OSPF_Route_Policy
   area 0
    interface ge0/2
    exit
 lists
  prefix-list W2_Loopback
   ip-prefix 10.10.10.5/32
  !
  route-policy OSPF_Route_Policy
  sequence 1
   match
    address W2_Loopback
   !
   action accept
    set
     metric     100
     metric-type type2
```

D)

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

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

Answer: D

NEW QUESTION 124
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 127
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?

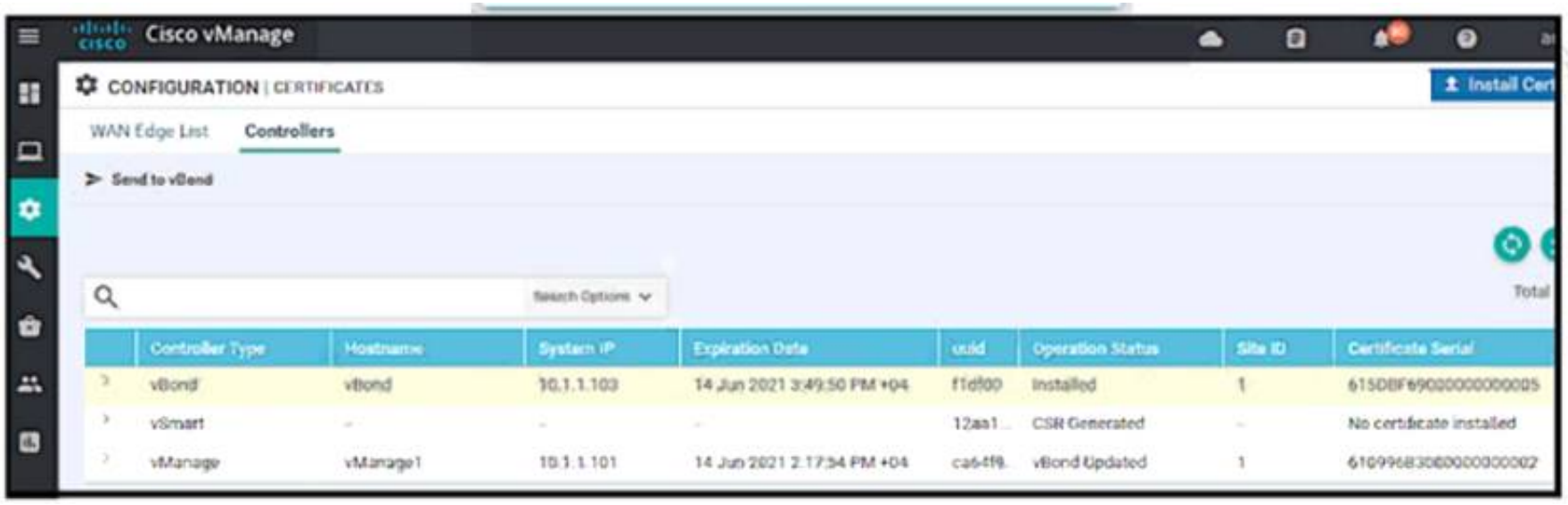
A. Integration with PaaS providers to offer the best possible application experience
B. QoS including application prioritization and meeting critical applications SLA for selecting optimal path.
C. implementation of a modem age core banking system
D. implementation of BGP across the enterprise routing 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 129
Refer to the exhibit



vManage and vBond have an issue establishing a connection to vSmart Which two actions does the administrator take to fix the issue? (Choose two)
Install the certificate received from the certificate server.

A. Manually resync vManage and vBond
B. Reconfigure the vSmart from CLI with the proper Hostname & System IP
C. Delete and re-add vSmart Click Generate and validate CSR
D. Request a certificate from the certificate server based on the CSR for the vSmart

Answer: CD

NEW QUESTION 132
When redistribution is configured between OMP and BGP at two Data Center sites that have Direct Connection interlink, which step avoids learning the same routes on WAN Edge routers of the DCs from LAN?

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

Answer: B

Explanation:

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

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

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

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

NEW QUESTION 137
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 138
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 139
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 142
An engineer must configure two branch WAN Edge devices where an Internet connection is available and the controllers are in the headquarters. The requirement is to have IPsec VPN tunnels established between the same colors. Which configuration meets the requirement on both WAN Edge devices?

WAN Edge 1

```
vpn 0
 interface ge0/0
  ip address 10.0.0.1/24
  ipv6 dhcp-client
  tunnel-interface
   color biz-internet restrict
   encapsulation ipsec
```

WAN Edge 2

```
vpn 0
 interface ge0/0
  ip address 10.0.0.2/24
  ipv6 dhcp-client
  tunnel-interface
   color default
   encapsulation ipsec
```

WAN Edge 1

```
vpn 0
 interface ge0/0
  ip address 10.0.0.1/24
  ipv6 dhcp-client
  tunnel-interface
   color default
   encapsulation ipsec
```

WAN Edge 2

```
vpn 0
 interface ge0/0
  ip address 10.0.0.2/24
  ipv6 dhcp-client
  tunnel-interface
   color default
   encapsulation ipsec
```

WAN Edge 1

```
vpn 0
 interface ge0/0
  ip address 10.0.0.1/24
  ipv6 dhcp-client
  tunnel-interface
   color public-internet restrict
   encapsulation ipsec
```

WAN Edge 2

```
vpn 0
 interface ge0/0
  ip address 10.0.0.2/24
  ipv6 dhcp-client
  tunnel-interface
   color gold restrict
   encapsulation ipsec
```

WAN Edge 1

```
vpn 0
 interface ge0/0
  ip address 10.0.0.1/24
  ipv6 dhcp-client
  tunnel-interface
   color gold restrict
   encapsulation ipsec
```

WAN Edge 2

```
vpn 0
 interface ge0/0
  ip address 10.0.0.2/24
  ipv6 dhcp-client
  tunnel-interface
   color gold restrict
   encapsulation ipsec
```

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

Answer: D

NEW QUESTION 144
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 al 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 147
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 150
Refer to exhibit.

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

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

Answer: CD

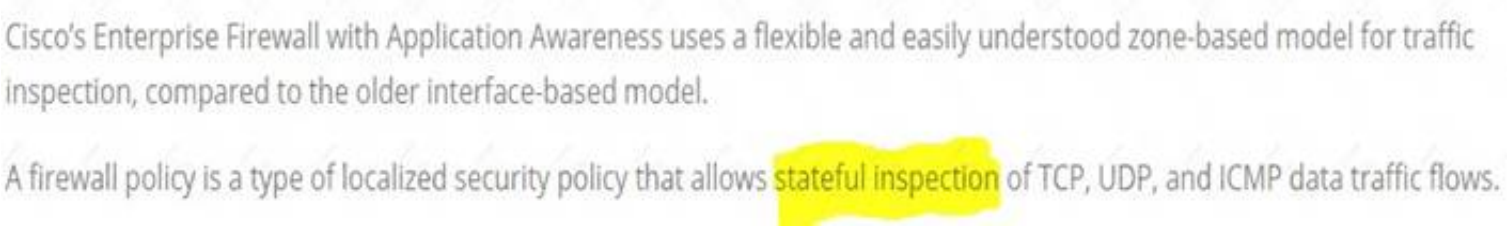
Explanation:
https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-control-connections/ta-p/38

NEW QUESTION 153
A network administrator is configuring an application-aware firewall between inside zones to an outside zone on a WAN edge router using vManage GUI. What kind of Inspection is performed when the ‘’inspect’’ action is used?

A. stateful inspection for TCP and UDP
B. stateful inspection for TCP and stateless inspection of UDP
C. IPS inspection for TCP and-Layer 4 inspection for UDP
D. Layer 7 inspection for TCP and Layer 4 inspection for UDP

Answer: A

Explanation:



NEW QUESTION 157
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 162
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 164
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 166
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 169
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 174
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 178
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 183
An engineer is configuring a data policy for packets that must be captured through the policy. Which command accomplishes this task?

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

Answer: B

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

NEW QUESTION 186
A customer has MPLS and Internet as the TLOC colors An engineer must configure conlroJIers 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 189
What must an engineer conewef when decoying an SD-WAN on-pfemlses architecture based on ESXi hypervisor?

A. Cisco must provision the backup and snapshots platform lor ihe SD-WAN arctoecture
B. The managed service provider must provision controllars with their appropriate cerHwcatsi
C. The IT team a required to provision the SO-WAN controllers and Is responsAte lor backups and disaster recovery implementation
D. The IT team will be given access by Cisco to a vManage for configuration If templates and policies coeigmalim

Answer: C

NEW QUESTION 190
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 195
How is TLOC defined?

A. It is represented by a unique identifier to specify a site in as SD-WAN architecture.
B. It specifies a Cisco SD-WAN overlay in a multitenant vSMART deployment.
C. It is a unique collection of GRE or iPsec encapsulation, link color, and system IP address.
D. It is represented by group of QoS policies applied to a WAN Edge router.

Answer: C

NEW QUESTION 200
Refer to the exhibit.

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

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

A. A UDP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted
B. A TCP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped
C. A UDP packet souring 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 202
A customer is receiving routes via OMP from vSmart controller for a specific VPN. The customer must provide access to the W2 loopback received via OMP to the OSPF neighbor on the service-side VPN, which configuration fulfils these requirements?

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

```
vpn 0
router
 ospf
  redistribute omp route-policy OSPF_Route_Policy
 area 0
  interface ge0/2
  exit
lists
 prefix-list W2_Loopback
  ip-prefix 10.10.10.5/32
 !
 route-policy OSPF_Route_Policy
 sequence 1
  match
   address W2_Loopback
   metric-type type1
```

```
vpn 0
router
 ospf
  redistribute omp route-policy OSPF_Route_Policy
  area 0
   interface ge0/2
   exit
 lists
  prefix-list W2_Loopback
   ip-prefix 10.10.10.5/32
  !
  route-policy OSPF_Route_Policy
  sequence 1
   match
    address W2_Loopback
   !
   action accept
    set
     metric      100
     metric-type type2

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

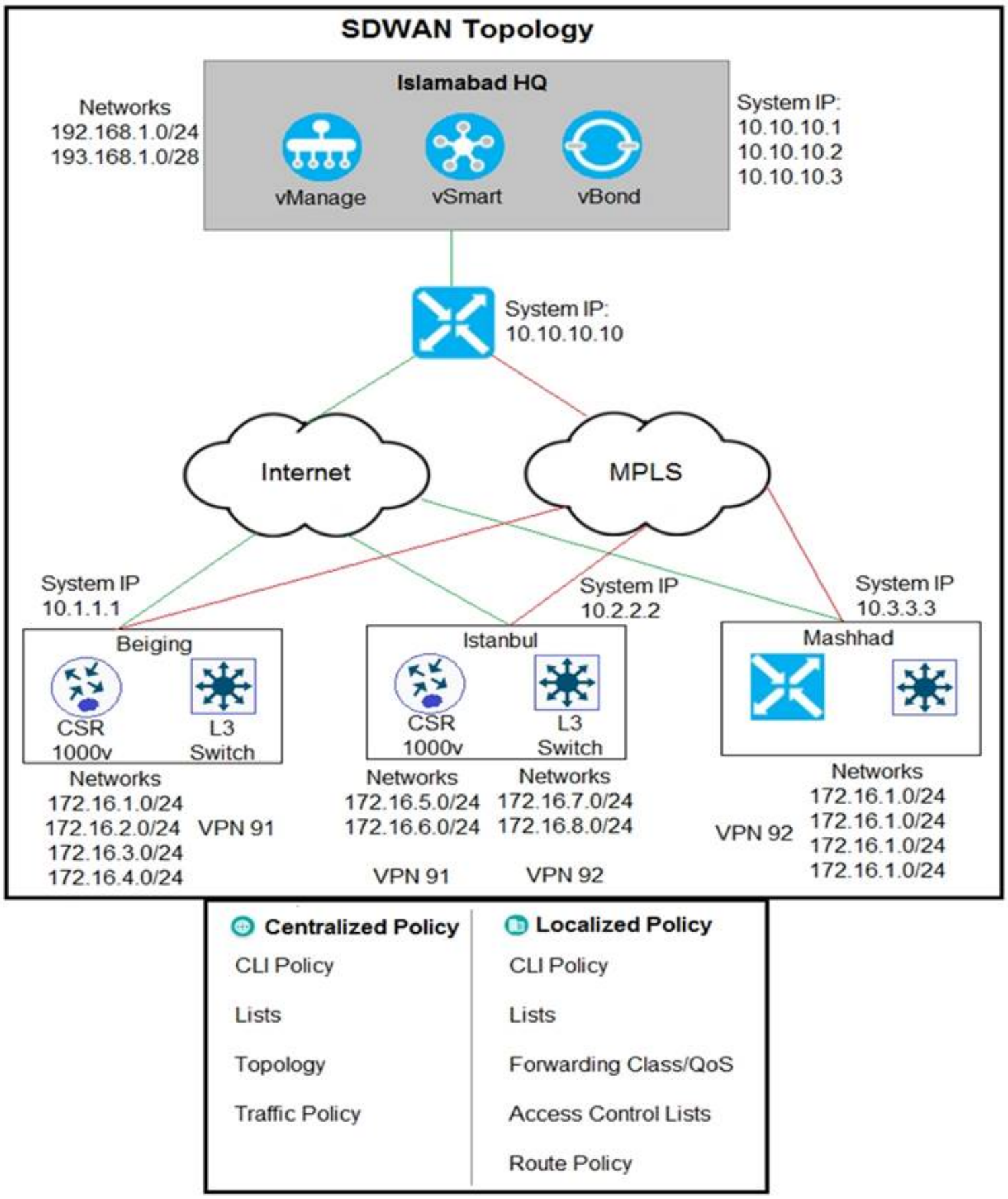
```
    ospf
     redistribute omp route-policy OSPF_Route_Policy
     area 0
      interface ge0/2
      exit
    lists
     prefix-list W2_Loopback
      ip-prefix 10.10.10.5/32
     !
     route-policy OSPF_Route_Policy
     sequence 1
      match
       address W2_Loopback
      !
      action accept
       set
        metric      100
        metric-type type1
```

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

Answer: D

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

NEW QUESTION 205
Refer to the exhibit

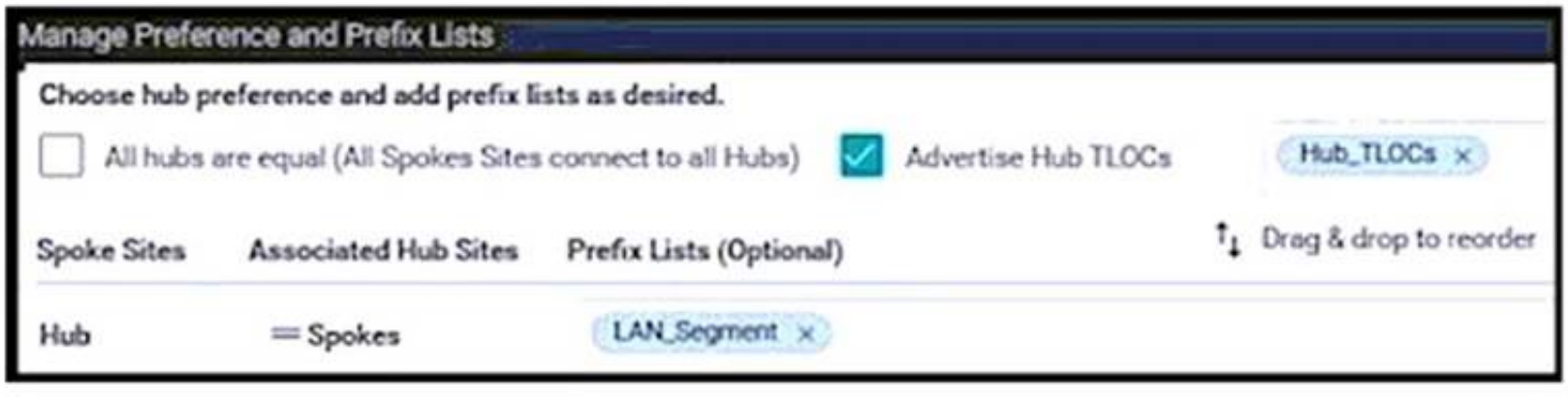


The Cisco SD-WAN network is configured with a default full-mesh topology. Islamabad HQ and Islamabad WAN Edges must be used as the hub sites. Hub sites MPLS TLOC must be preferred when forwarding FTP traffic based on a configured SLA class list. Which policy configuration does the network engineer use to call the SLA class and set the preferred color to MPLS?

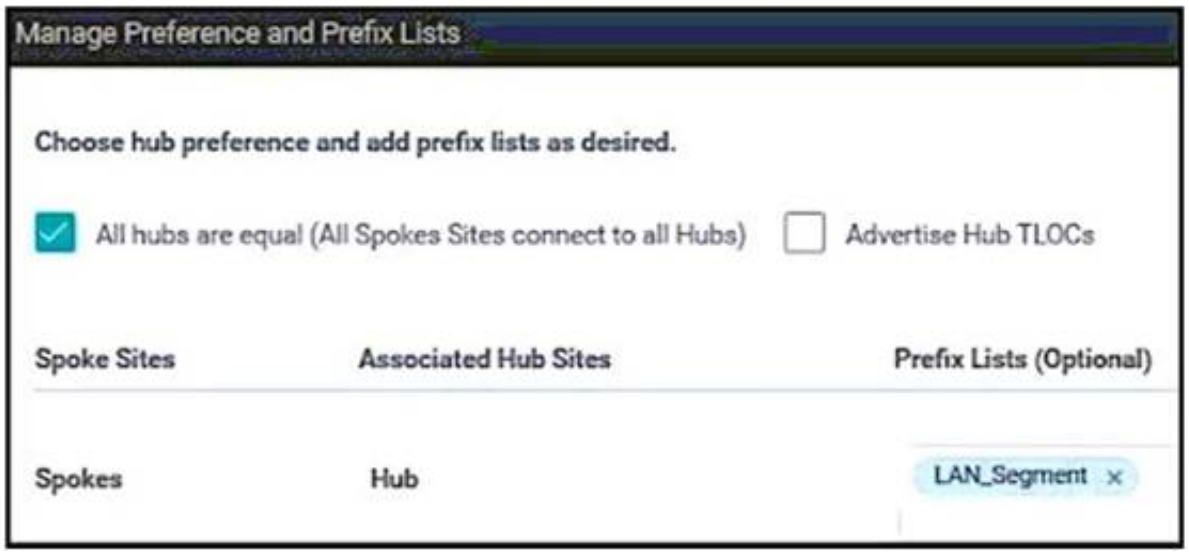
A. Localized Policy, Route Policy
B. Centralized Policy, Traffic Policy
C. Localized Policy, Forwarding Class
D. Centralized Policy Topology

Answer: B

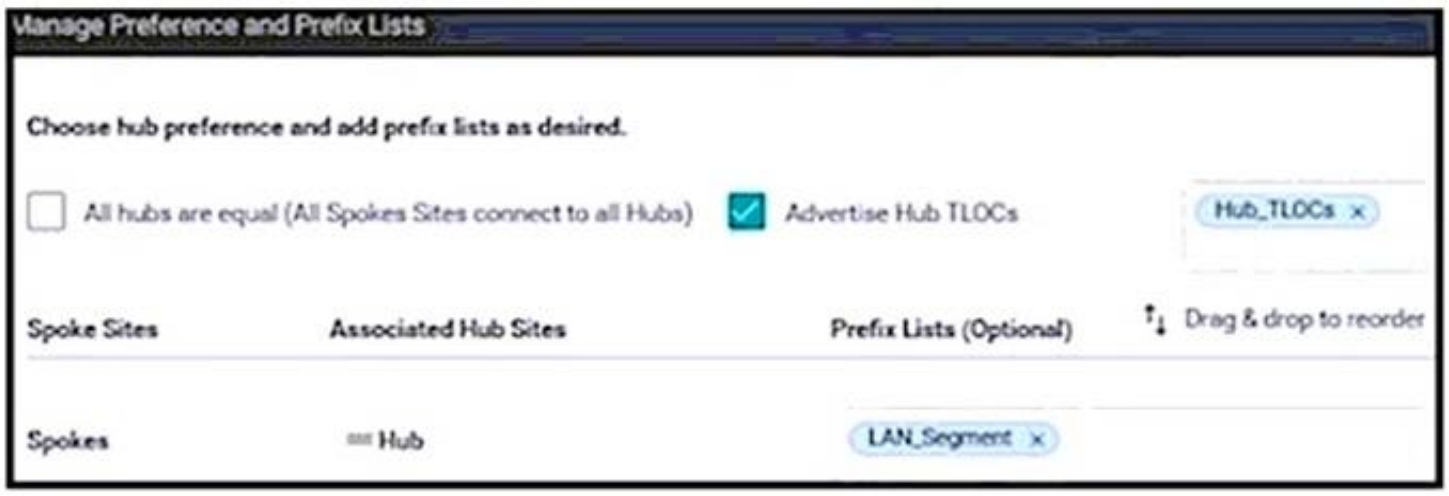
NEW QUESTION 209
After deploying Cisco SD-WAN the company realized that by default, all sites built direct IPsec VPN tunnels to each other In their previous topology all spoke sites used the head office as their next hop for the LAN segment that belongs to network 40.0.0.0/16 The company wants to deploy its previous policy, which allows the 40.0.0.0/16 network that originates at the hub to advertise to the spokes. Which configuration meets the requirement'?
A)



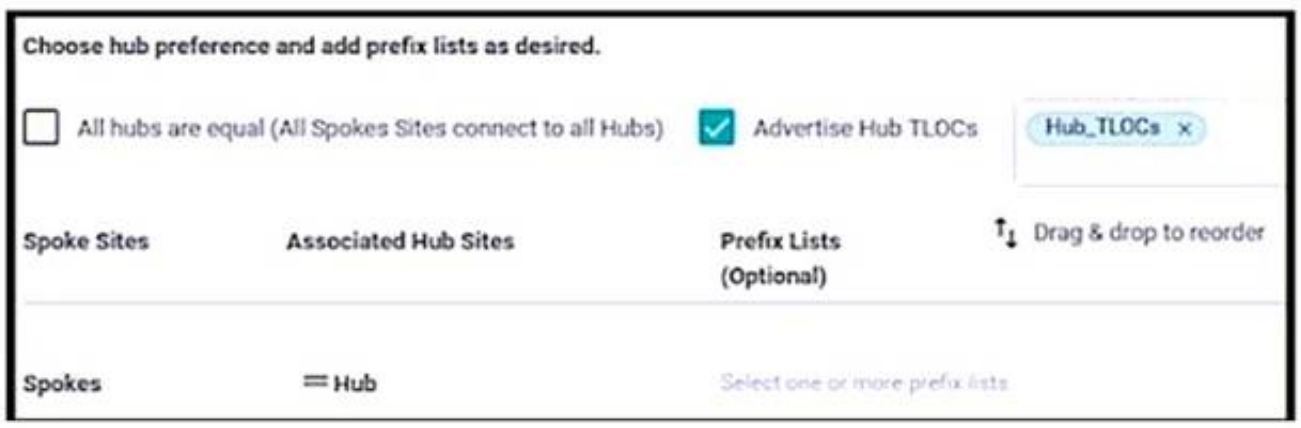
B)



C)



D)



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

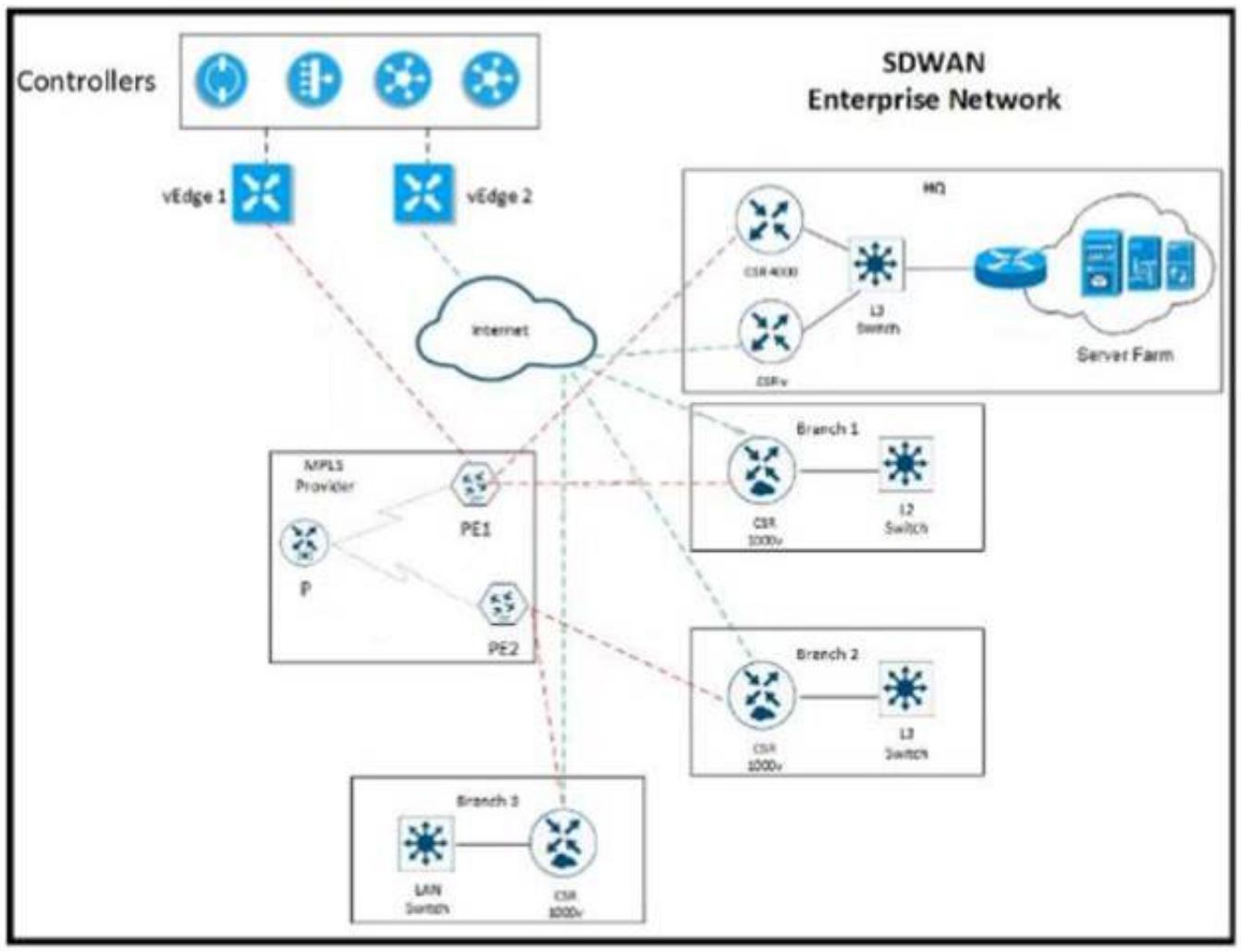
Answer: D

NEW QUESTION 210
Which command on a WAN Edge device displays the information about the colors present in the fabric that are learned from vSmart via OMP?

A. show omp tlocs
B. show omp sessions
C. show omp peers
D. show omp route

Answer: A

NEW QUESTION 213
Refer to the exhibit



The network team must configure El GRP peering at HQ with devices in the service VPN connected to WAN Edge CSRv. CSRv is currently configured with

```
viptela-system:system
 device-model       vedge-cloud
 host-nam                  CSRv
 location           CA
 system-ip                 10.4.4.4
 domain-id                 1
 site-id            1
 organization-name  ABC
 clock timezone US/Newyork
 vbond 10.10.0.1 port 12346

omp
 no shutdown
 graceful-restart
```

Which configuration on the WAN Edge meets the requirement?

A)

```
vpn 0
interface ge0/0
 description """ Internet Circuit """
 ip address 209.165.200.229/30
 tunnel-interface
  encapsulation ipsec
  color public-internet
  allow-service all

 router
  eigrp
   address-family ipv4-unicast
    maximum-path paths 4
    network 10.0.0.0/28
    redistribute omp

vpn 512
interface eth0
 shutdown
```

B)

```
vpn 0
interface ge0/0
  description """ Internet Circuit """
  ip address 209.165.200.229/30
  tunnel-interface
    encapsulation ipsec
    color public-internet
    allow-service all

  router
    eigrp
      address-family ipv4-unicast
        maximum-path paths 4
        network 10.0.0.0/28
        redistribute omp

vpn 512
interface eth0
  shutdown
```

C)

```
vpn 0
interface ge0/0
  description """ Internet Circuit """
  ip address 209.165.200.229/30
  tunnel-interface
    encapsulation ipsec
    color public-internet
    allow-service all

vpn 1
  router
    eigrp
      address-family ipv4-unicast
        maximum-path paths 4
        network 10.0.0.0/28
        redistribute omp

interface ge0/1
  ip address 10.0.0.1/28

vpn 512
interface eth0
  shutdown
```

D)

```
vpn 0
vpn 1
interface ge0/0
  description """ Internet Circuit """
  ip address 209.165.200.229/30
  tunnel-interface
    encapsulation ipsec
    color public-internet
    allow-service all

  router
    eigrp
      address-family ipv4-unicast
        maximum-path paths 4
        network 10.0.0.0/28
        redistribute omp

interface ge0/1
  ip address 10.0.0.1/28

vpn 512
interface eth0
  shutdown
```

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

Answer: C

NEW QUESTION 218
Which percentage for total memory or total CPU usage for a device is classified as normal in the WAN Edge Health pane?

A. more than 80 percent usage
B. less than 70 percent usage
C. between 70 to 90 percent usage
D. more than 90 percent usage

Answer: B

NEW QUESTION 222
Which VPN connects the transport-side WAN Edge interface to the underlay/WAN network?

A. VPN 1

B. VPN 511
C. VPN 0
D. VPN 512

Answer: C

Explanation:

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

NEW QUESTION 223
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 225
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

logging
disk netconf-disable

logging
disk
audit-disable
netconf-disable

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

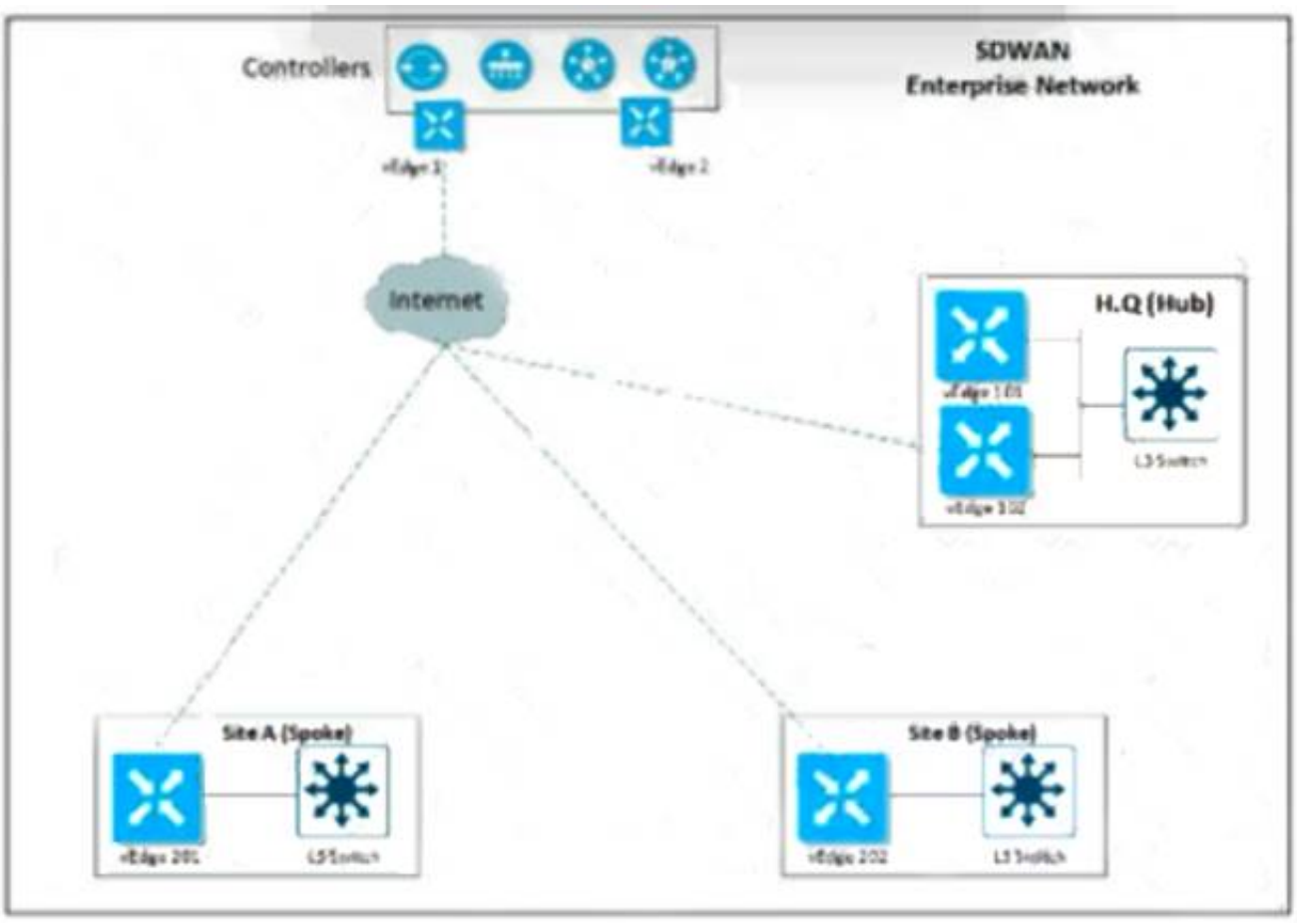
Answer: B

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 228
Refer to the exhibit



An engineer must configure a QoS policy between me hub and site A (spoke) over a standard internet circuit where traffic shaping is adjusted automatically based on evaiiabk» 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
```

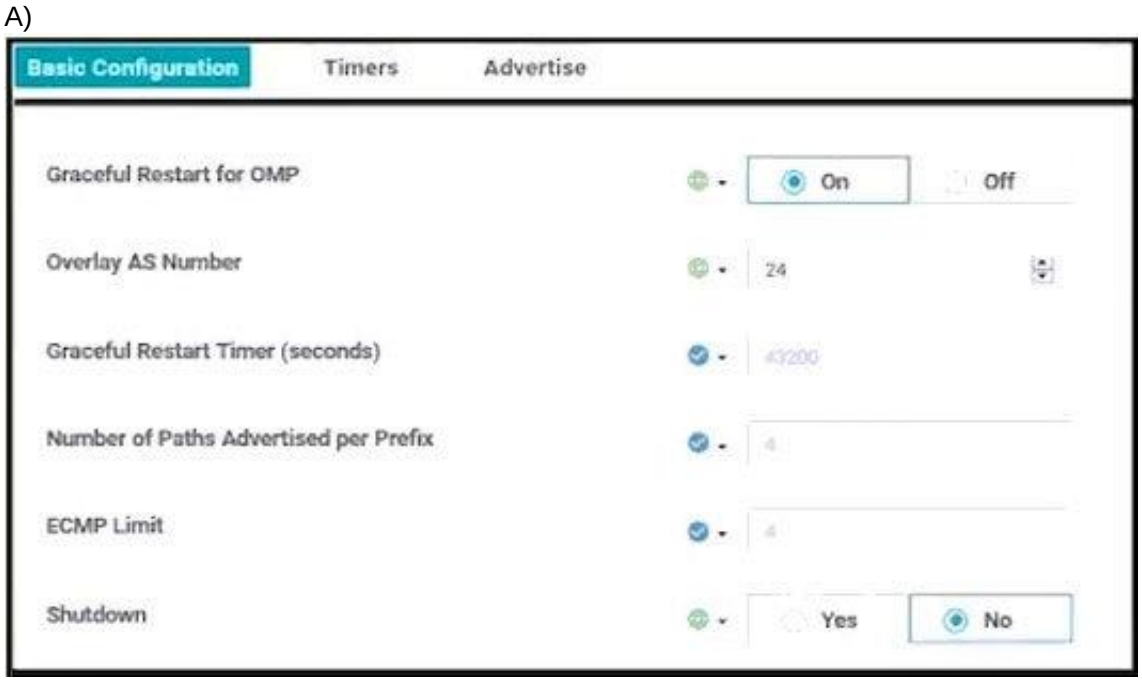
Site A (Spoke)

```
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

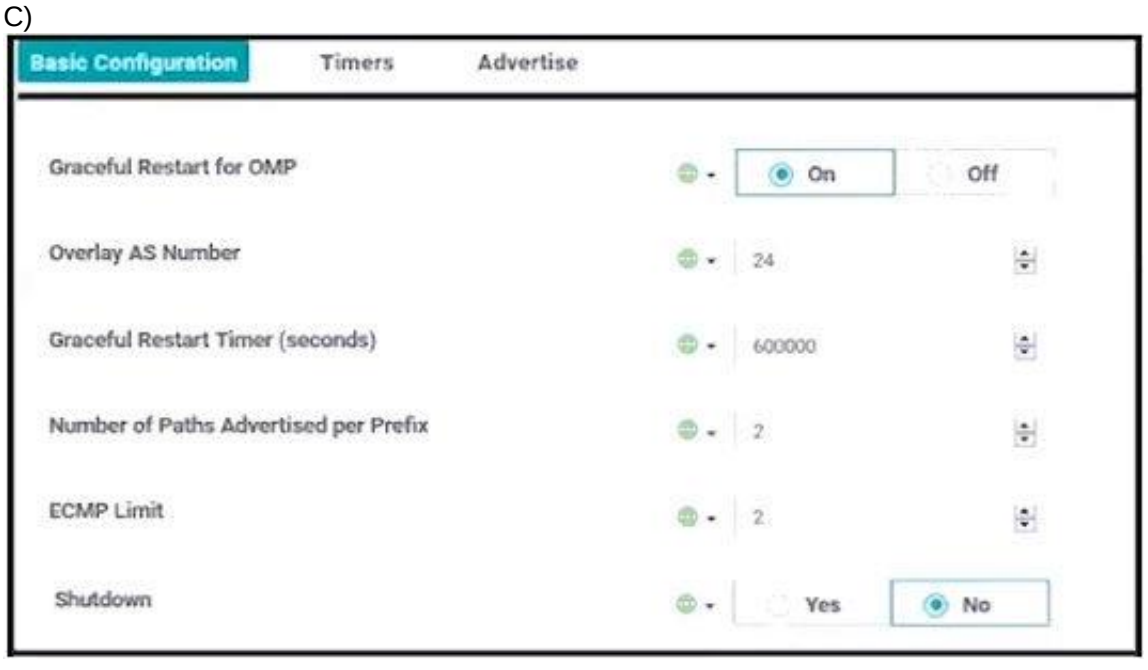
Answer: D

NEW QUESTION 232
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 237
Refer to the exhibit.

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

What binding is created using the tloc-extension command?

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

D. between ge 0/2.101 of port-type transport and ge 0/0 of port-type transport

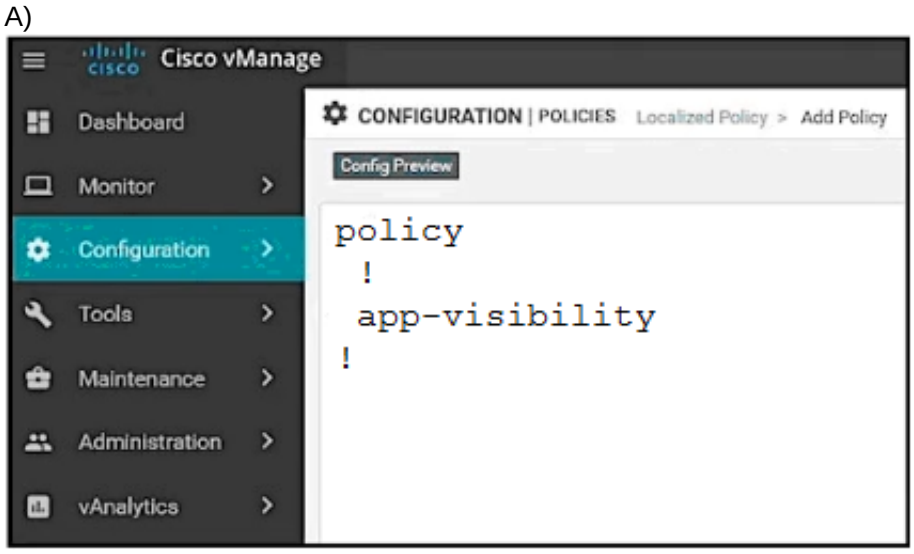
Answer: D

Explanation:

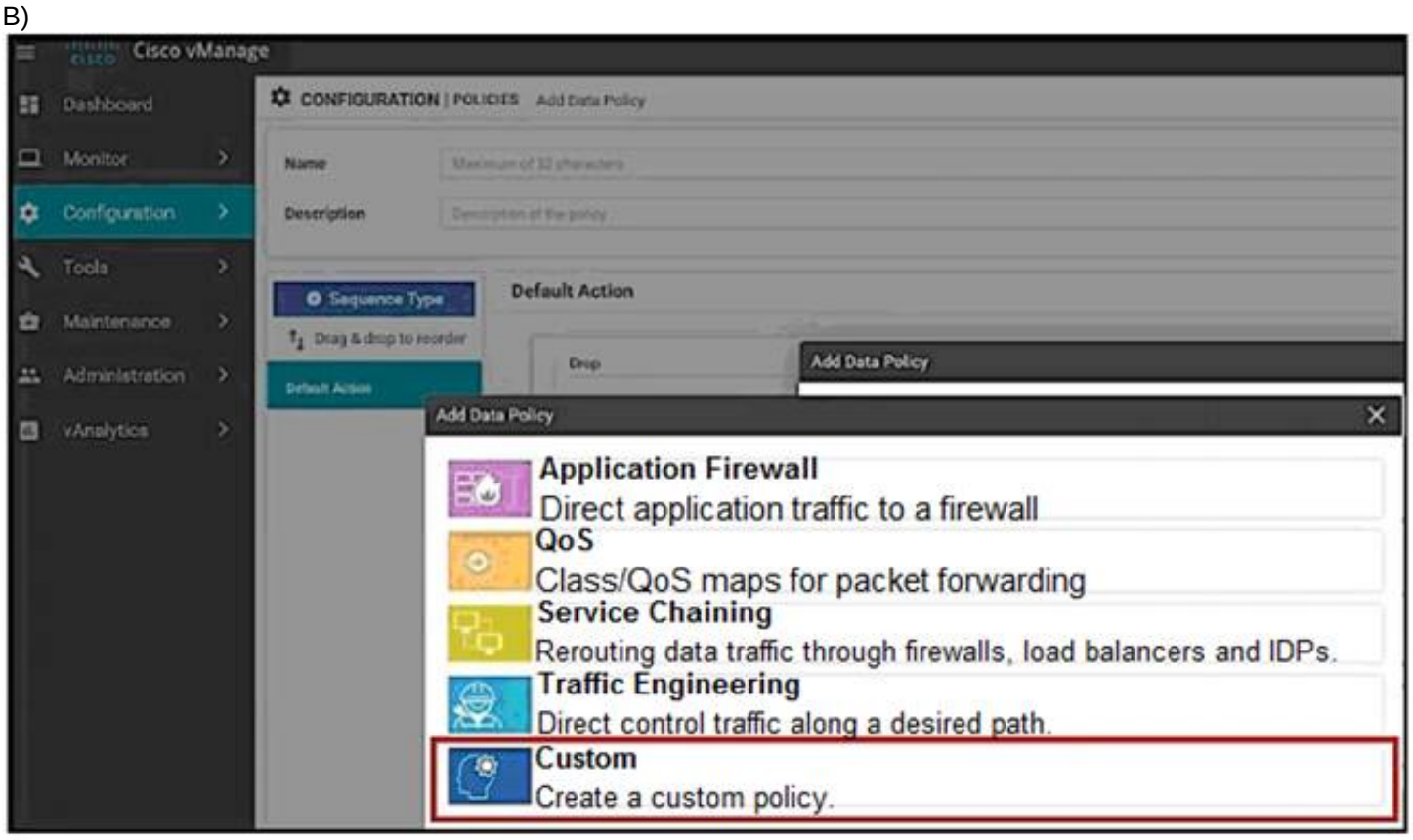
tloc-extension

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

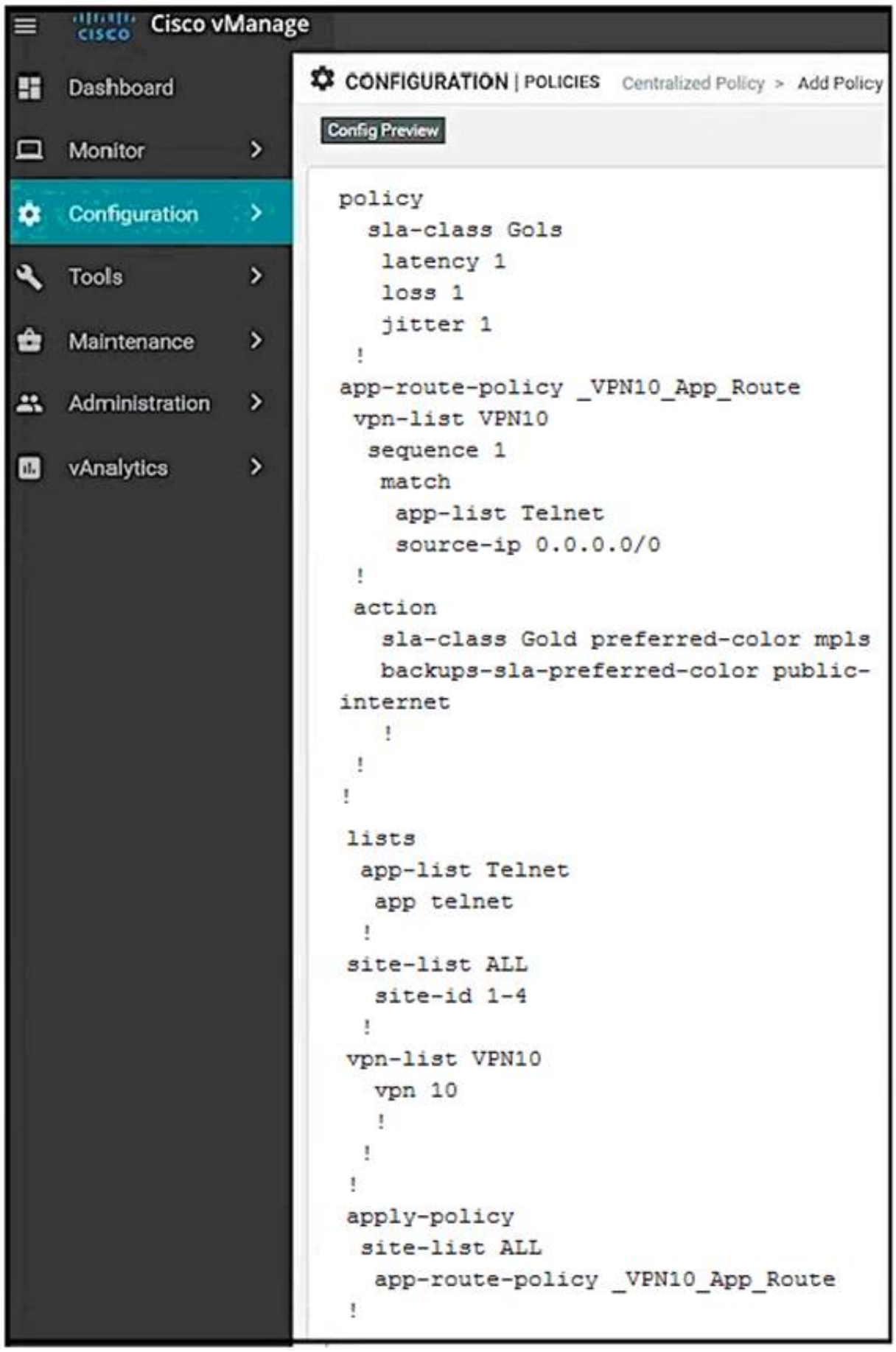
NEW QUESTION 238
An organization wants to discover, monitor, and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?
A)



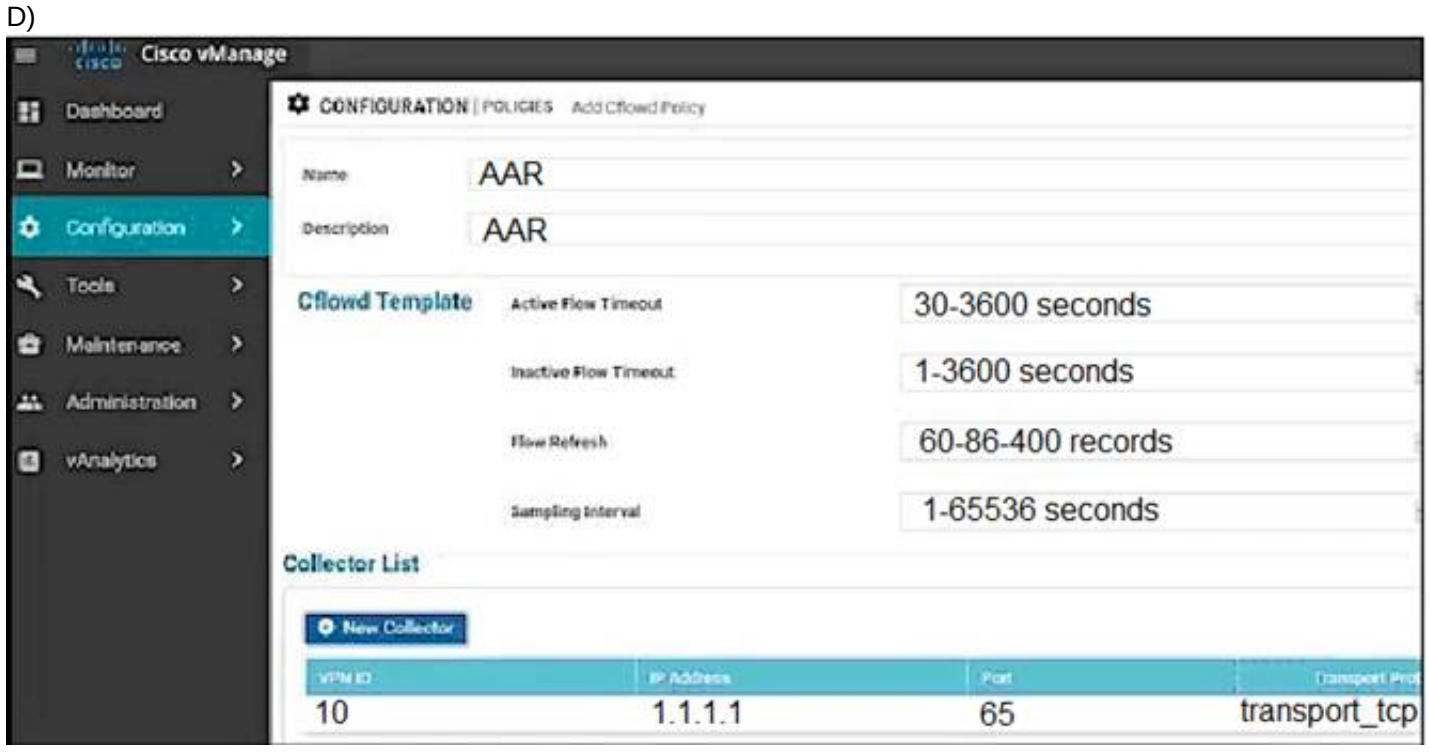
B)



C)



D)



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

Answer: D

NEW QUESTION 241
Drag and drop the actions from the left into the correct sequence on the right to create a data policy to direct traffic to the Internet exit.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1 – Enable NAT Functionality Step 2 – Create centralized data policy
Step 3 – Identify VPN and match criteria Step 4 – Apply data policy

NEW QUESTION 245
Refer to the exhibit

```
vpn 1
service netsvc1 interface ipsec1

from-vsmart data-policy _1_ServiceInsertionIPSec
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 246
Which protocol runs between the vSmart controllers and WAN Edge routers when the vSmart controller acts like a route reflector?

A. OMP outside the DTLS/TLS control connection
B. BGP inside the DTLS/TLS
C. IPsec inside the DTLS/TLS control connection
D. OMP inside the DTLS/TLS control connection

Answer: D

NEW QUESTION 249
When a WAN Edge device joins the SD-WAN overlay, which Cisco SD-WAN components orchestrates the connection between the WAN Edge device and a vSmart controller?

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

Answer: B

Explanation:

When a vEdge device comes up, how does it automatically discover Cisco vManage and Cisco vSmart Controller and establish connections with them? It does so with help from Cisco vBond Orchestrator.

NEW QUESTION 251
Which website allows access to visualize the geography screen from vManager using the internet?

A. *.opcnstreetmaps.org
B. *.fullstreetmaps.org
C. *.callstreelmaps.org
D. *.globaistreetmaps.org

Answer: A

NEW QUESTION 256
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?

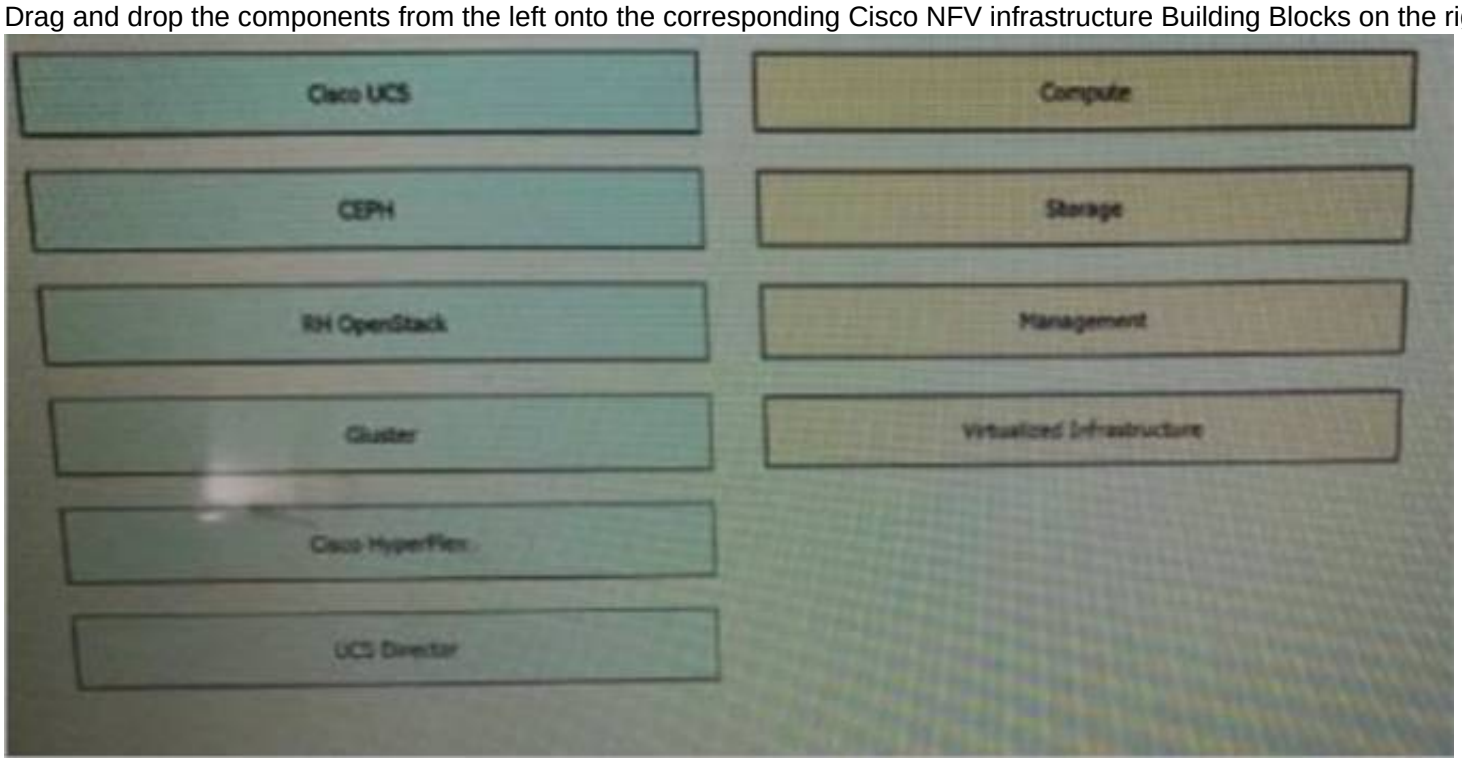
A. configure "Number of Paths Advertised per Prefix"
B. configure "Overlay AS Number"
C. configure "Send Backup Paths"
D. configure "ECMP limit"

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 258
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:

NEW QUESTION 259
Which two REST API functions are performed for Cisco devices in an overlay network? (Choose two)

A. distributing a Snort image among devices
B. attaching a device configuration template
C. managing connections for smart licensing
D. monitoring device certificates
E. querying a device and aggregating statistics

Answer: BD

NEW QUESTION 260
Which protocol is used to measure loss latency, Jitter, and liveliness of the tunnel between WAN Edge router peers?

A. OMP
B. IP SLA
C. NetFlow
D. BFD

Answer: D

NEW QUESTION 261
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 263
WAN Edge routers are configured manually to use UDP port offset to use nondefault offset values when IPsec tunnels are created. What is the offse range?

A. 1-19
B. 0-18
C. 0-19
D. 1-18

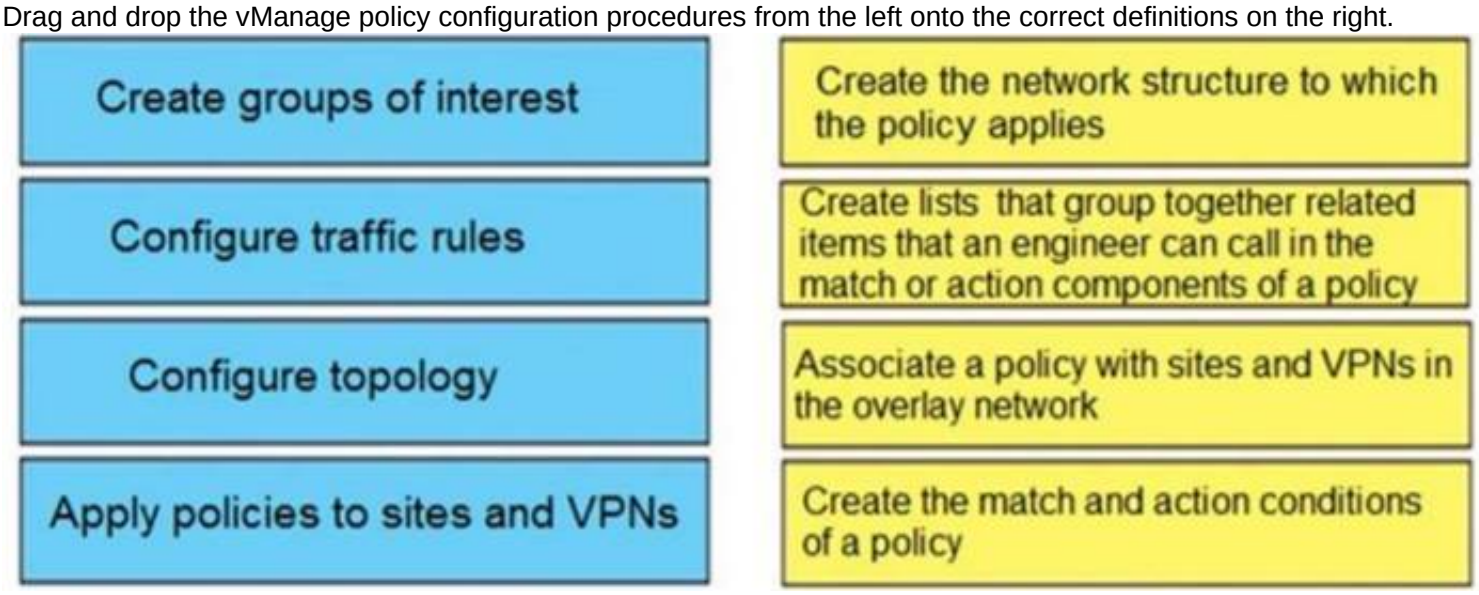
Answer: C

NEW QUESTION 267
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

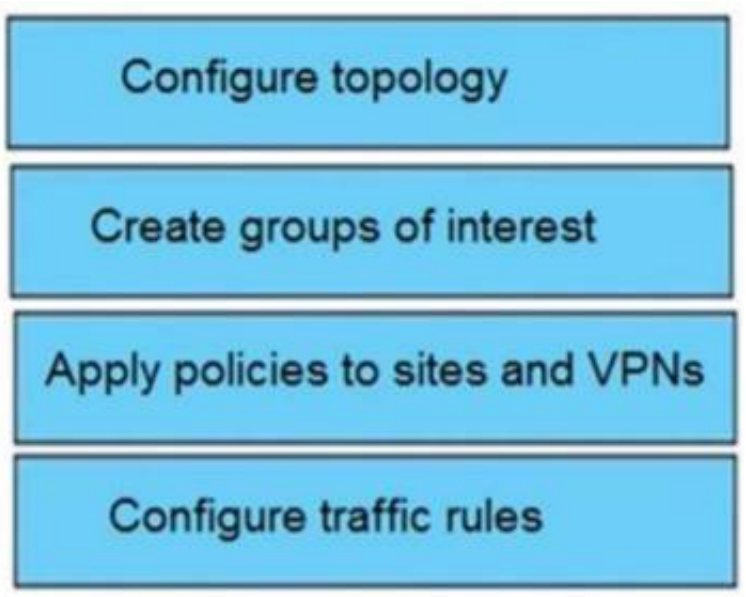
NEW QUESTION 271
Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 274
How many concurrent sessions does a vManage REST API have before it invalidates the least recently used session if the maximum concurrent session number is reached?

A. 150
B. 200
C. 250
D. 300

Answer: A

NEW QUESTION 276
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 278
Refer to the exhibit.

#Branch1-Edge1	#Branch1-Edge2
vpn 0	vpn 0
!	...
interface ge0/1	interface ge0/2
ip address	no shutdown
172.17.113.241/28	!
tunnel-interface	interface ge0/2.704
encapsulation ipsec	ip address 10.113.4.1/30
color mpls restrict	tunnel-interface
!	encapsulation ipsec
no shutdown	color mpls restrict
!	mtu 1496
interface ge0/2.704	no shutdown
ip address 10.113.4.2/30	!
tloc-extension ge0/2	ip route 0.0.0.0/0 10.113.4.2

Which configuration change is needed to configure the tloc-extention on Branch1-Edge1?

A.
```
interface ge0/2.704
 ip address 10.113.4.1/30
 tunnel-interface
  encapsulation ipsec
  color mpls restrict
  no shutdown
```

B.
```
interface ge0/2.704
 ip address 10.113.4.2/30
 mtu 1496
 tloc-extension ge0/1
```

C.
```
interface ge0/2.704
 ip address 10.113.4.2/30
 mtu 1496
 tloc-extension ge0/2
```

D.
```
interface ge0/2.704
 ip address 10.113.4.1/30
 tunnel-interface
  encapsulation ipsec
  color mpls restrict
  mtu 1496
  tloc-extension ge0/2
  no shutdown
```

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

Answer: B

NEW QUESTION 282
Refer to the exhibit

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT	PEER PUBLIC IP	PEER PUBLIC PORT	LOCAL COLOR	STATE	LOCAL/REMOTE	REPEAT COUNT
vbond	dtls	-	0	0	1.1.10.10	12346	1.1.10.10	12346	mpls	tear_down	CRTREJSER NOERR	161
vbond	dtls	-	0	0	1.1.10.10	12346	1.1.10.10	12346	silver	tear_down	CRTREJSER NOERR	161
vbond	dtls	-	0	0	1.2.20.20	12346	1.2.20.20	12346	mpls	tear_down	CRTREJSER NOERR	160
vbond	dtls	-	0	0	1.2.20.20	12346	1.2.20.20	12346	silver	tear_down	CRTREJSER NOERR	160

A WAN Edge device was recently added to vManage but a control connection could not be established Which action resolves this issue?

A. Rectify the Rod CA certificate mismatch on WAN Edge devices
B. Install the bootstrap code on WAN Edge and check for CSR
C. Send the serial number to vBond from the vManage controller.
D. Resolve the ZTP reachability and rectify smart account credentials issue

Answer: C

NEW QUESTION 283
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 287
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 288
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 291
What is the result during a WAN Edge software upgrade process if the version of the WAN Edge software is higher than the one running on a controller device?

A. The upgrade button is greyed out
B. The upgrade proceeds with no warning message.
C. The upgrade fails with a warning message
D. The upgrade proceeds with a warning message

Answer: D

NEW QUESTION 293
Which policy configures an application-aware routing policy under Configuration > Policies?

A. Localized policy
B. Centralized policy
C. Data policy
D. Control policy

Answer: B

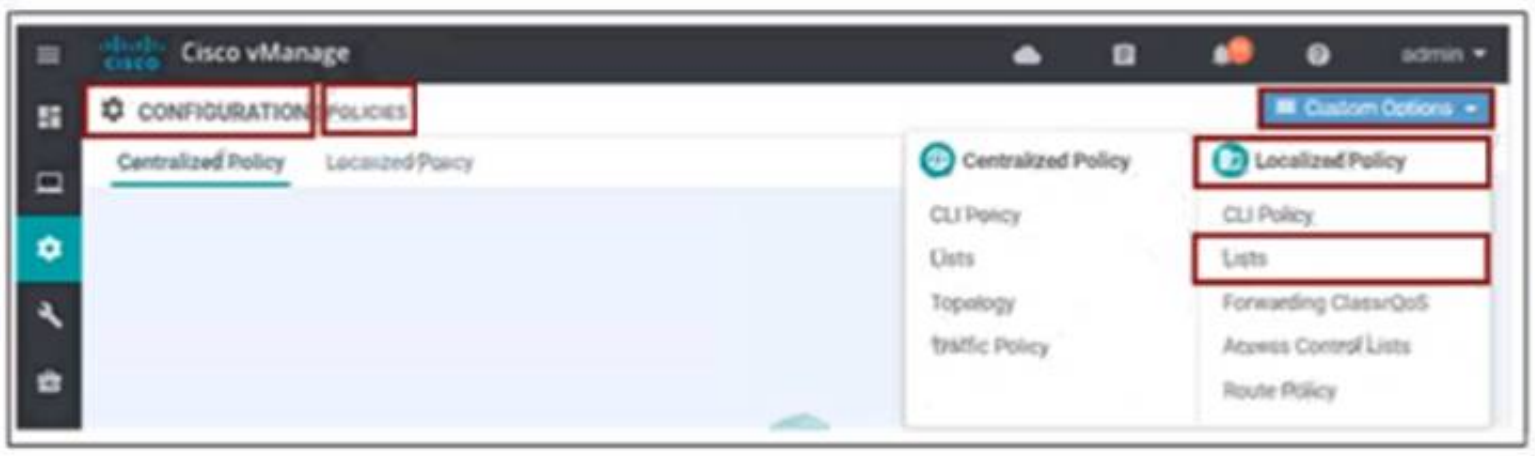
NEW QUESTION 294
How are custom application ports monitored in Cisco SD-WAN controllers?

A. Customers add custom application ports in vAnalytics and vManage.
B. Customers add custom application ports in vAnalytics and vSmart.
C. Cisco adds custom application ports In vAnalytics and vManage.
D. Cisco adds custom application ports In vAnalytics and vSmart.

Answer: A

NEW QUESTION 295
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 297
Refer to the exhibit.

Hostname	State	System IP	Reachability	Site ID	Device Model	BFD	Control
BR1-VEDGE1	✓	10.3.0.1	reachable	300	vEdge Cloud	8	5

What does the BFD value of 8 represent?

A. number of BFD sessions
B. hello timer of BFD session

C. poll-interval of BFD session.
D. dead timer of BFD session

Answer: A

NEW QUESTION 302
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 303
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 305
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 310
Which secure tunnel type should be used to connect one WAN Edge router to other WAN Edge routers?

A. TLS
B. DTLS
C. SSL VPN
D. IPsec

Answer: D

NEW QUESTION 313
How does the replicator role function in cisco SD-WAN?

A. WAN Edge devices advertise the rendezvous point to all the receivers through the underlay network.
B. vSmart Controllers advertise the rendezvous point to all the receivers through the overlay network.
C. WAN Edge devices advertise the rendezvous point to all receivers through the overlay network.
D. vSmart Controllers advertise the rendezvous point to all the receivers through the underlay network.

Answer: B

Explanation:

Replicators

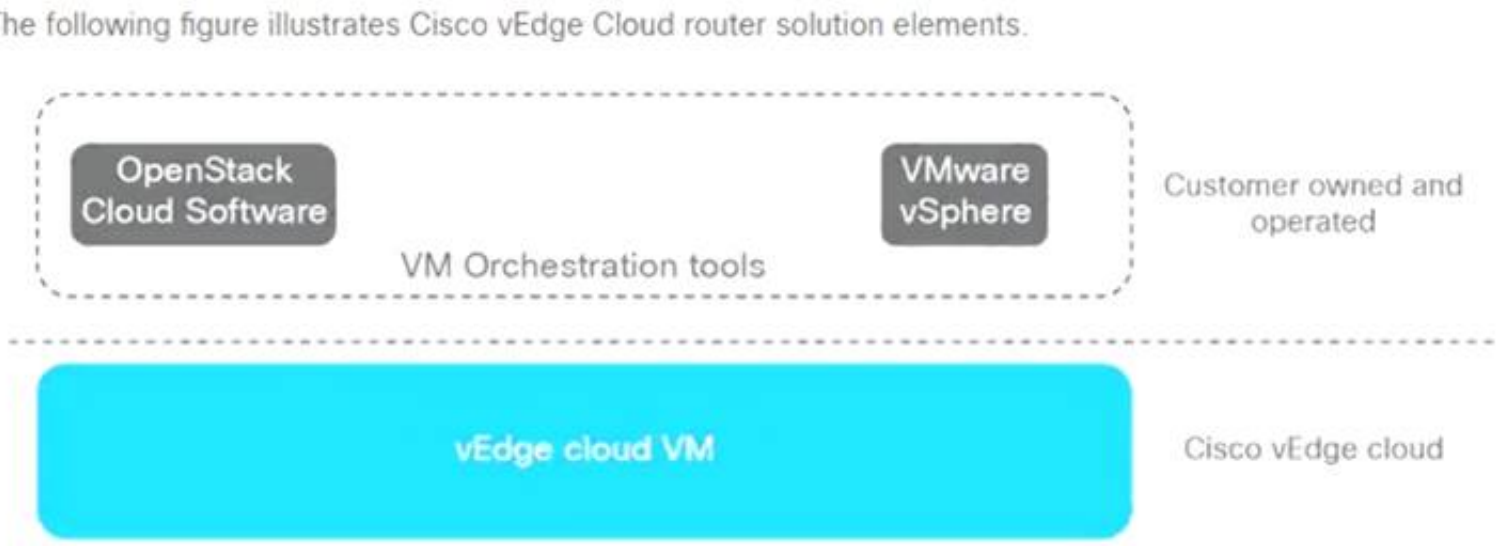
For efficient use of WAN bandwidth, strategic Cisco SD-WAN routers can be deployed and configured as replicators throughout the overlay network. Replicators mitigate the requirement for a Cisco SD-WAN router with local sources or the PIM-RP to replicate a multicast stream once for each receiver. As discussed above, replicators advertise themselves, using OMP multicast-autodiscover routes, to the Cisco vSmart Controllers in the overlay network. The controllers then forward the replicator location information to the PIM-enabled Cisco IOS XE SD-WAN routers that are in the same VPN as the replicator.

NEW QUESTION 314
Which two products that perform lifecycle management for virtual instances are supported by WAN Edge cloud routers? (Choose two.)

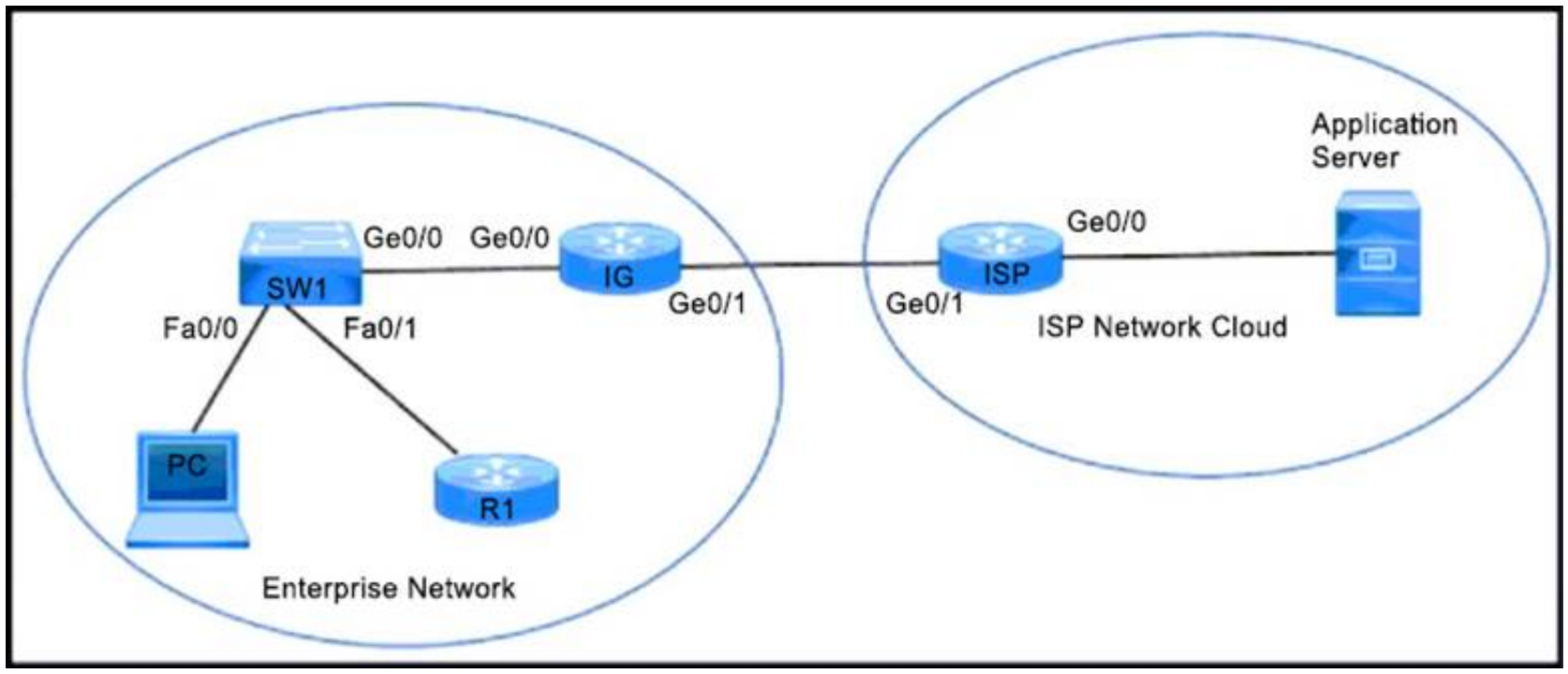
A. OpenStack
B. AWS
C. VMware vCenter
D. Azure
E. IBM Cloud

Answer: AC

Explanation:
https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-07-cloud-router-data-sheet-ct



NEW QUESTION 318
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

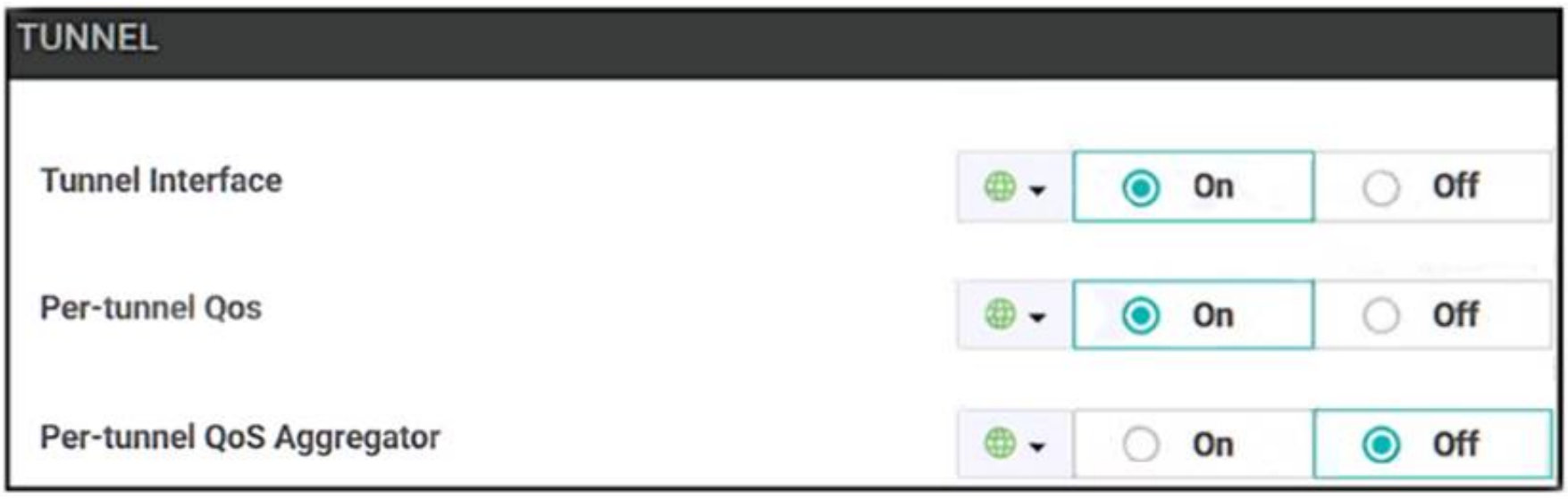
Answer: B

NEW QUESTION 321
What are two attributes of vRoute? (Choose two)

A. originator
B. service
C. encapsulation
D. carrier
E. domain ID

Answer: AB

NEW QUESTION 326
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 327
What are the two functions of vSmart? (Choose two)

A. It orchestrates connectivity between WAN Edge routers using policies to create network topology
B. It ensures that valid WAN Edge routers can build the control pane connectivity
C. It uses TLOCs to uniquely identify the circuit interface to control plane and data plane information
D. It validates that the WAN Edge trying to join the overlay is authorized to join.
E. It builds control plane connections with WAN Edge routers us*>g ILS or UILS

Answer: DE

NEW QUESTION 332
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?

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

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

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

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

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

Answer: B

NEW QUESTION 335
If Smart Account Sync is not used, which Cisco SD-WAN component is used to upload an authorized serial number file?

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

Answer: B

Explanation:
https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices

NEW QUESTION 338
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 340
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

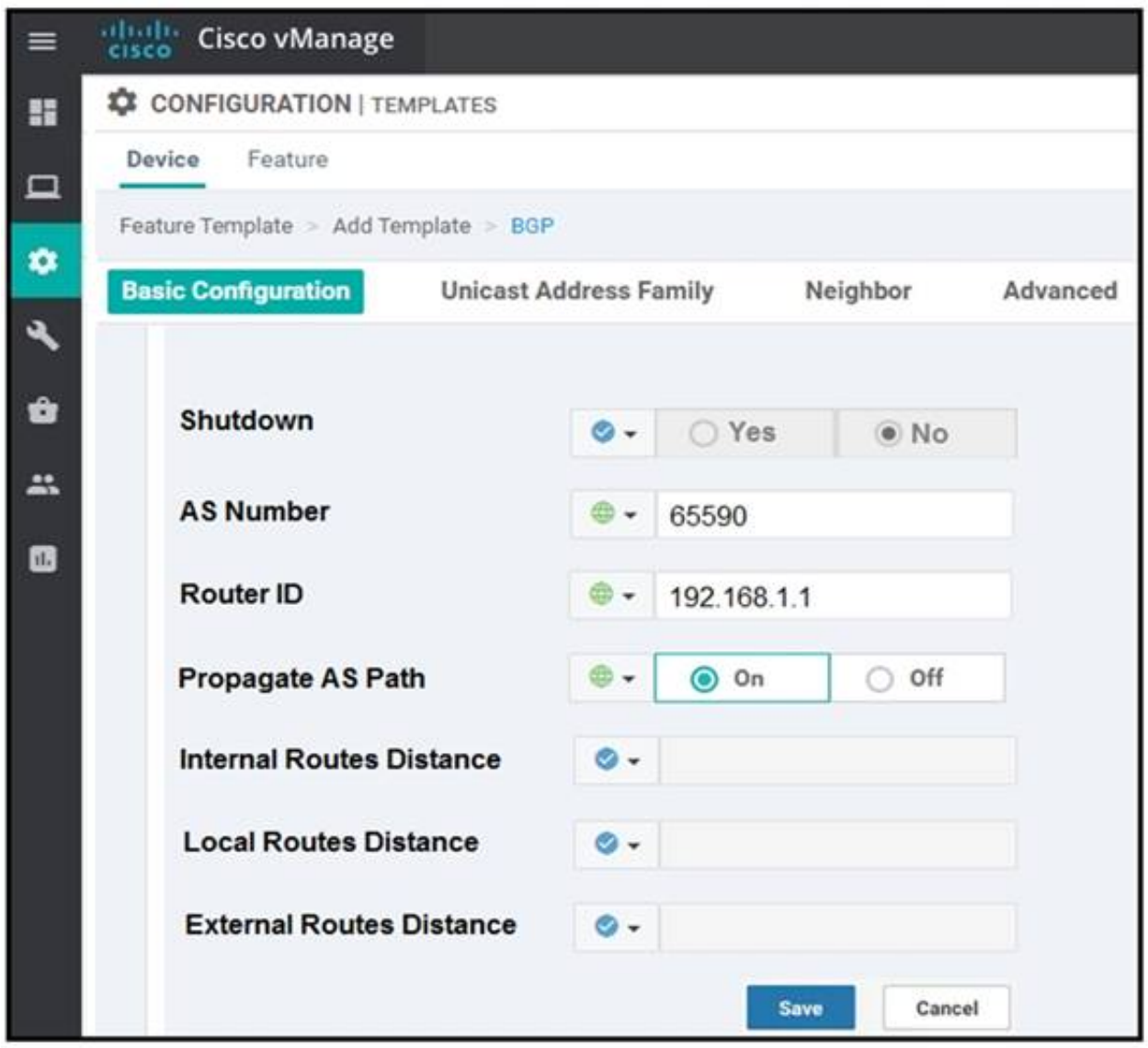
NEW QUESTION 343
Which two criteria ate supported to filter traffic on a Cisco Umbrella Cloud-delivered firewall? (Choose two)

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 347
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 349
Refer to the exhibit.

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT
vsmart	dtls	10.1.1.8	1	0	1.1.1.1	12447
vmanage	dtls	10.1.1.7	1	1	2.2.2.2	12647
vmanage	dtls	10.1.1.7	1	1	2.2.2.2	12867

LOCAL COLOR	STATE	ERROR	ERROR	LOCAL UNIT
gold	up	LISFD	NOERR	45
gold	up	LISFD	NOERR	70
gold	up	LISFD	NOERR	69

An engineer is troubleshooting a control connection issue on a WAN Edge device that shows socket errors. The packet capture shows some ICMP packets dropped between the two devices. Which action resolves the issue?

A. Recover the vManage controller that is down m a high availability cluster
B. Change the system IP or restart the VWN Edge 4 the system IP is changed
C. Remove IP duplication in the network and configure a unique IP address
D. Recover vBond or wart for the controller to reload which could be caused by a reset

Answer: C

NEW QUESTION 354
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 356
An engineer creates this data policy for DIA for VPN 10:

```
data-policy DIA
 vpn-list VPN-10
  sequence 10
   match
    destination-data-prefix-list INTERNAL-NETWORKS
   !
   action accept
```

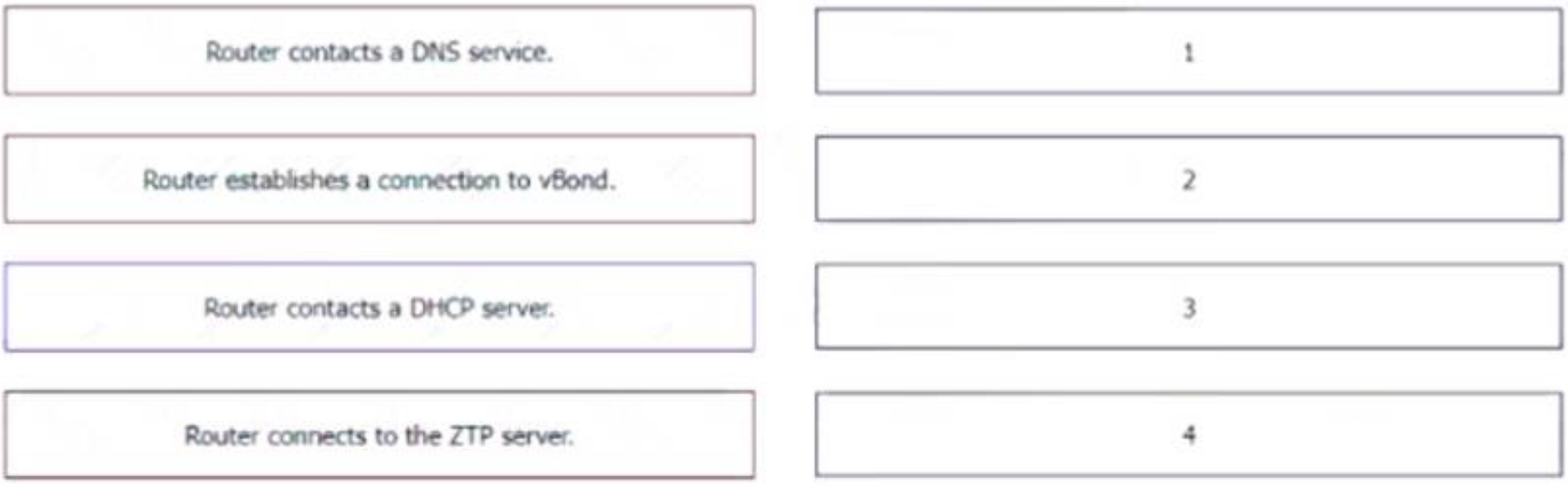
Which policy sequence enables DIA for external networks?

```
sequence 5
  match
   source-ip 0.0.0.0/0
  !
  action accept
   nat use-vpn 0

sequence 5
   match
    destination-ip 0.0.0.0/0
   !
   action reject
  !
 !
default-action accept

sequence 20
 match
  destination-ip 0.0.0.0/0
 !
 action accept
  nat use-vpn 0

sequence 20
 match
  source-ip 0.0.0.0/0
 !
 action reject
  !
   !
  default-action accept
```

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

Answer: C

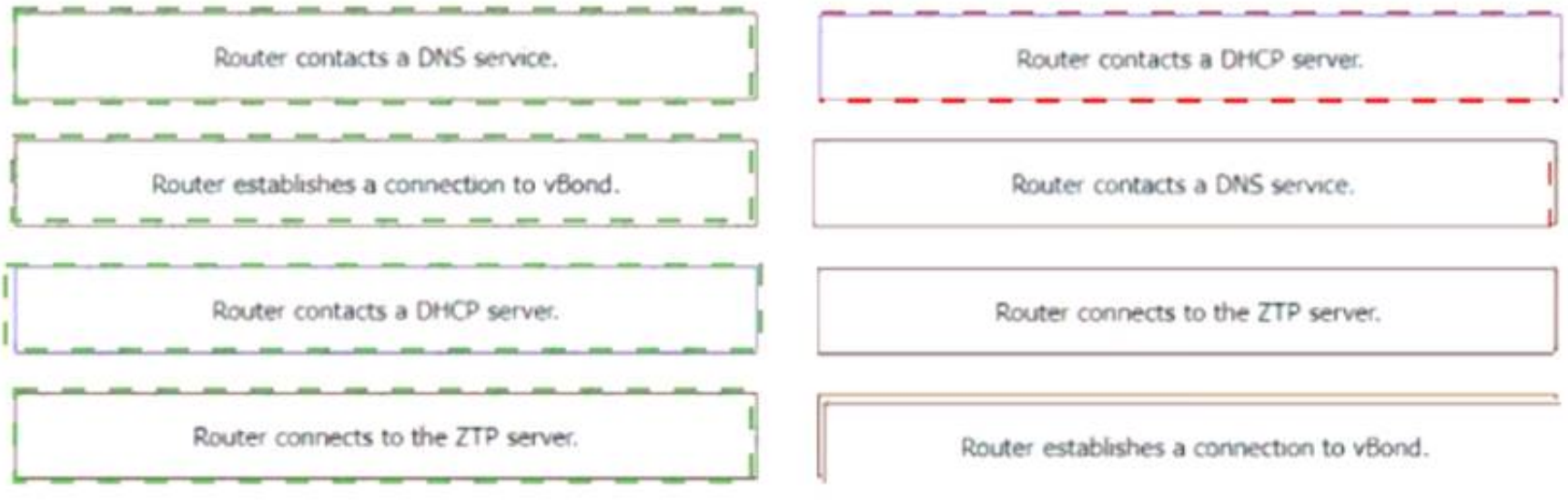
NEW QUESTION 358
Drag and drop the steps from the left into the sequence on the right for a WAN Edge router after powering on for zero touch provisioning.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

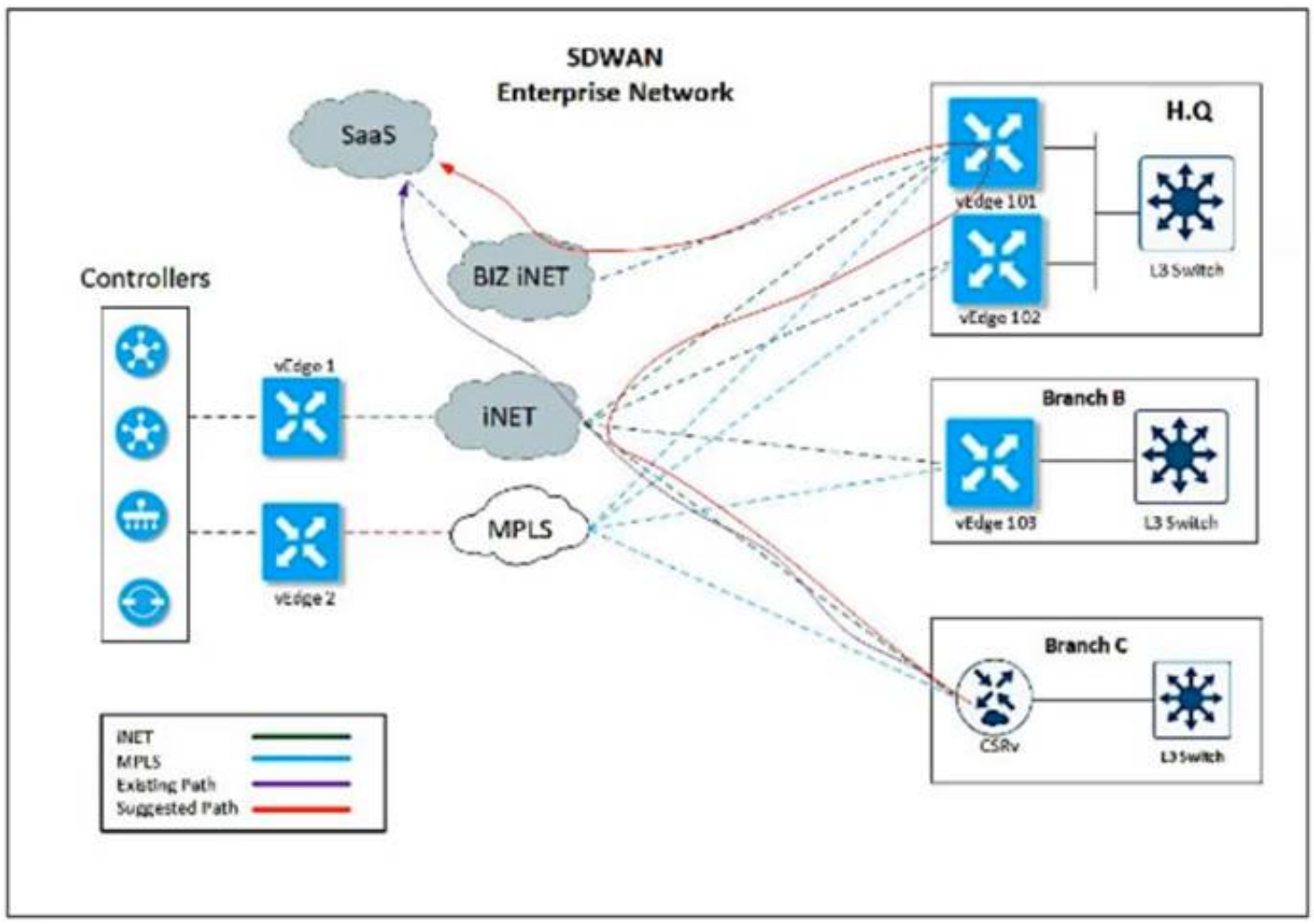


NEW QUESTION 362
How is a TLOC uniquely identified from a WAN Edge router to the SD-WAN transport network?

A. system IP address
B. VPN ID
C. OMP
D. SD-WAN site ID

Answer: A

NEW QUESTION 365
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 366
How is lhe 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 370
Which component is responsible for routing protocols such as BGP and OSPF in a Cisco SD-WAN solution?

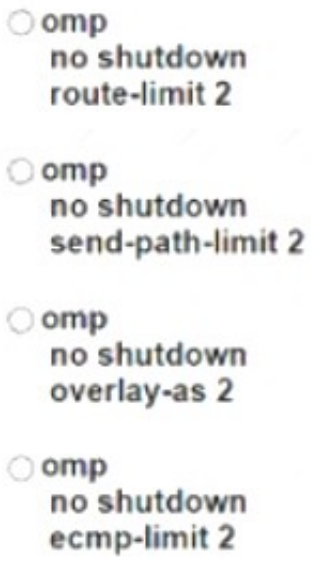
A. vSmart Controller
B. vBond Orchestrator
C. vManage
D. WAN Edge Router

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 375
An enterprise has these three WAN connections:
- public Internet
- business internet
- MPLS

An engineer must configure two available links to route traffic via both links. Which configuration achieves this objective?



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

Answer: B

NEW QUESTION 380
Which two mechanisms are used by vManage to ensure that the certificate serial number of the WAN Edge router that is needed to authenticate is listed in the WAN Edge Authorized Señal Number Hst' (Choose two)

A. Synchronize to the PnP
B. Manually upload it to vManage
C. The devices register to vManage directly as the devices come online
D. The vManage is shipped with the list
E. Synchronize to the Smart Account

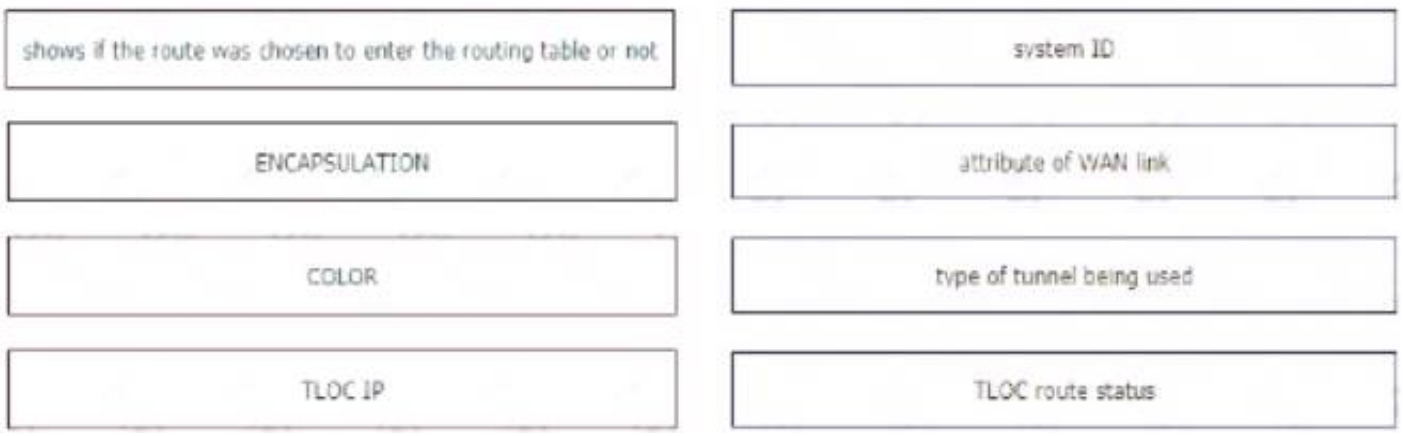
Answer: BE

NEW QUESTION 383
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

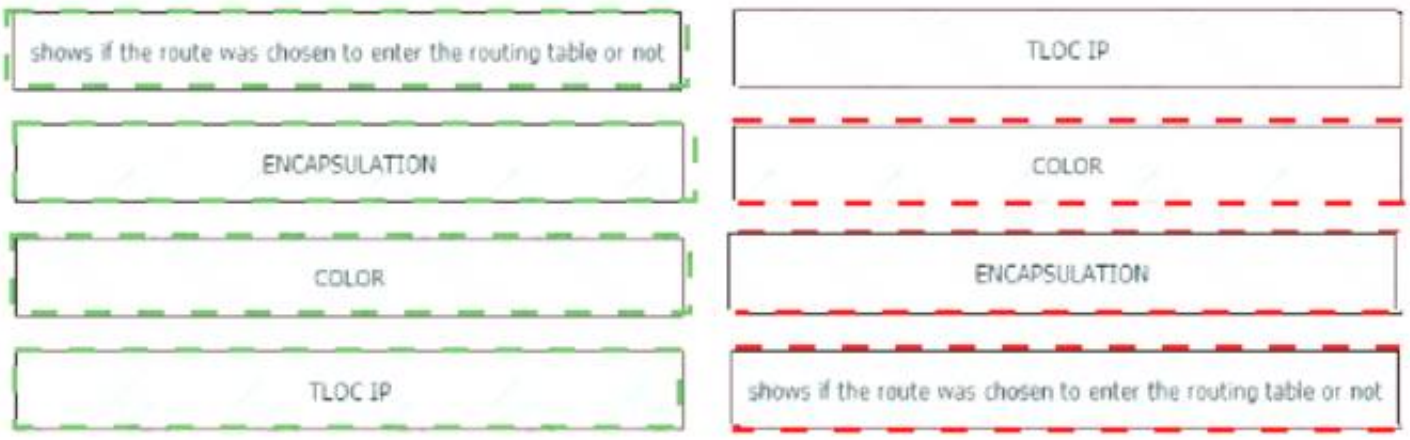
NEW QUESTION 387
Drag and drop the route verification output from show omp tlocs from the left onto the correct explanations on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 392
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
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        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 cumber 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 397
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 399
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 400
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 405
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
```

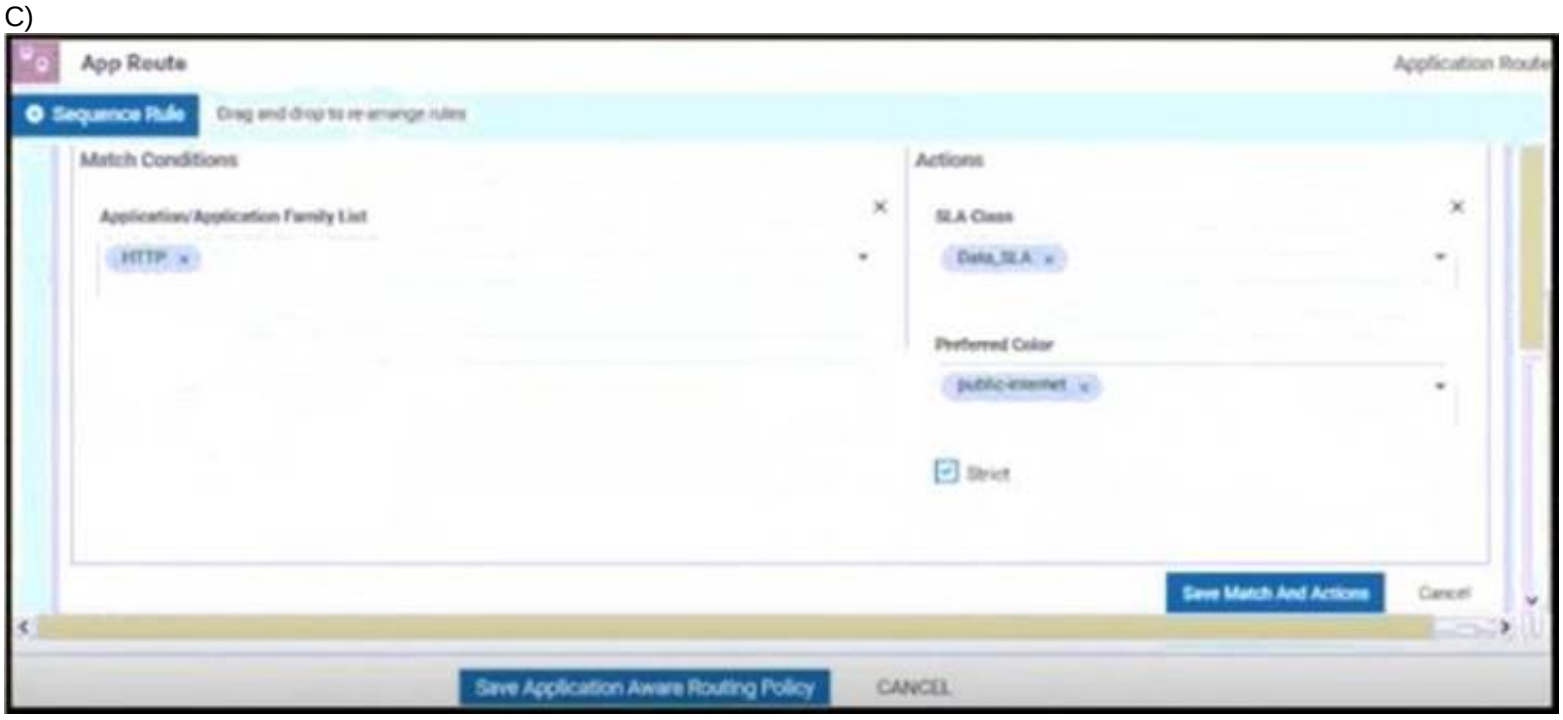
A. Option A
B. Option B
C. Option B
D. Option C

Answer: D

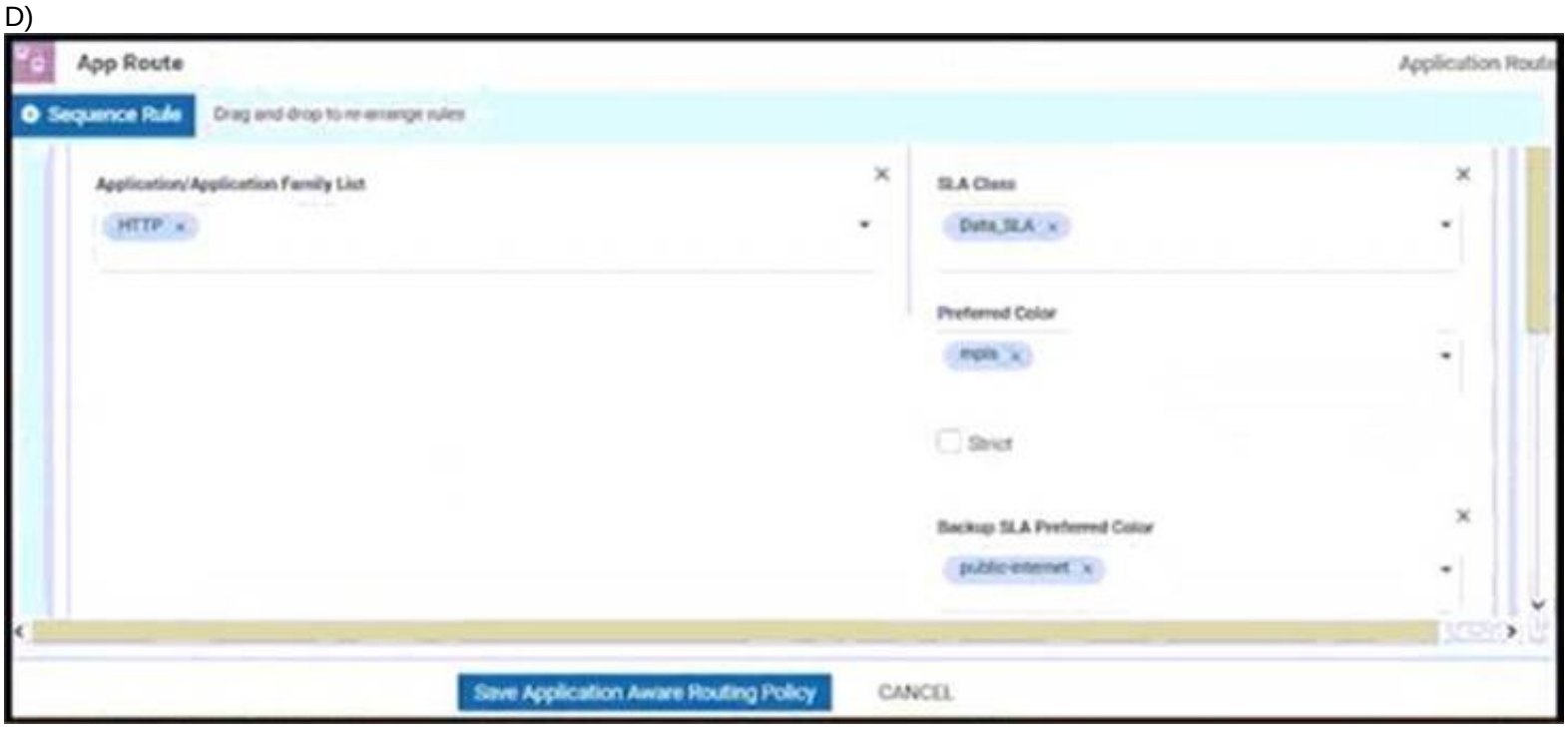
NEW QUESTION 407
An engineer must improve video quality by limiting HTTP traffic to the Internet without any failover. Which configuration in vManage achieves this goal?
A)

B)

C)



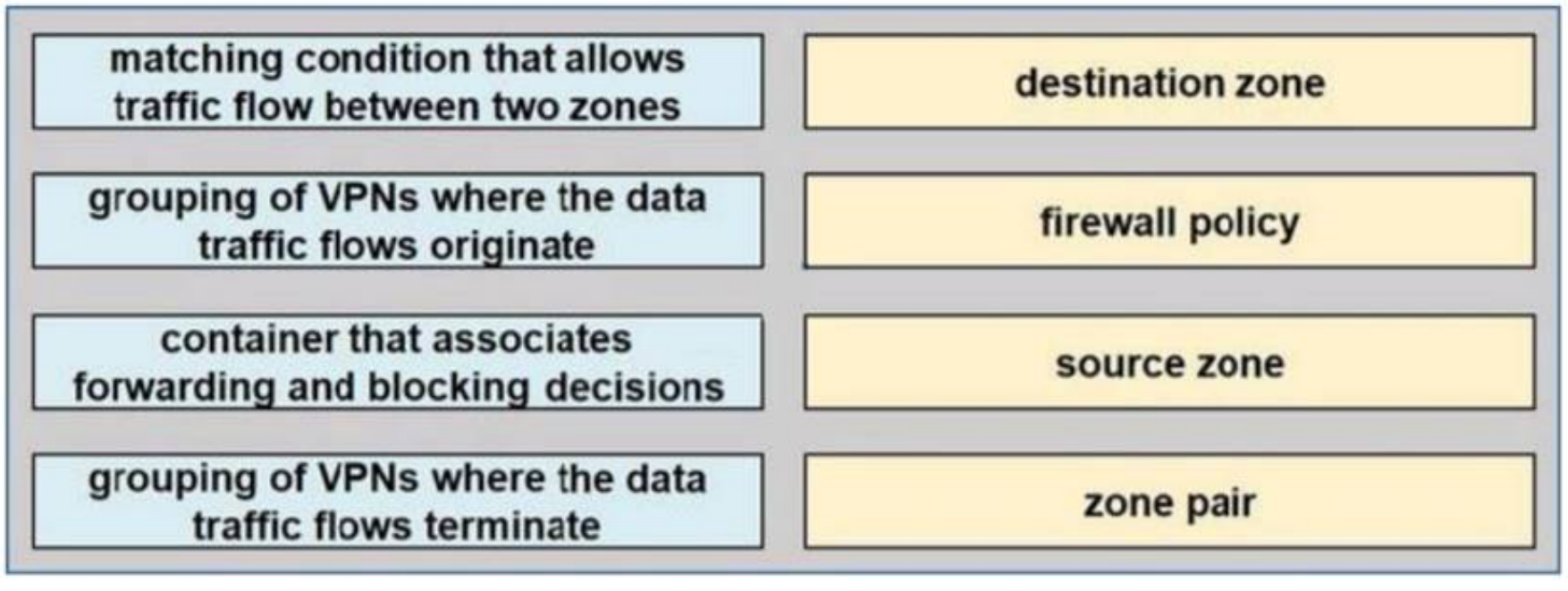
D)



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

Answer: C

NEW QUESTION 412
Drag and drop the definitions from the left to the configuration on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Service Chaining
Traffic Flow Monitoring with Cflow

- Source zone—A grouping of VPNs where the data traffic flows originate.
- Destination zone—A grouping of VPNs where the data traffic flows terminate. A VPN can be part of only one zone
- Zone-based firewall policy—A data policy, similar to a localized data policy, that defines the conditions that the data traffic flow from the source zone must match to allow the flow to continue to the destination zone. Zone-based firewalls can match IP prefixes, IP ports, an protocols TCP, UDP, and ICMP. Matching flows can be accepted or dropped, and the packet headers can be logged. Nonmatching flows are dropped by de
- Zone pair—A container that associates a source zone with a destination zone and that applies a zone-based firewall policy to the traffic that flows betweer zones.

NEW QUESTION 416
What is a benefit of the application-aware firewall?

A. It blocks traffic by MAC address
B. It blocks traffic by MTU of the packet.
C. It blocks traffic by application.
D. It blocks encrypted traffic

Answer: C

NEW QUESTION 417
Which device information is requited 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 422
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

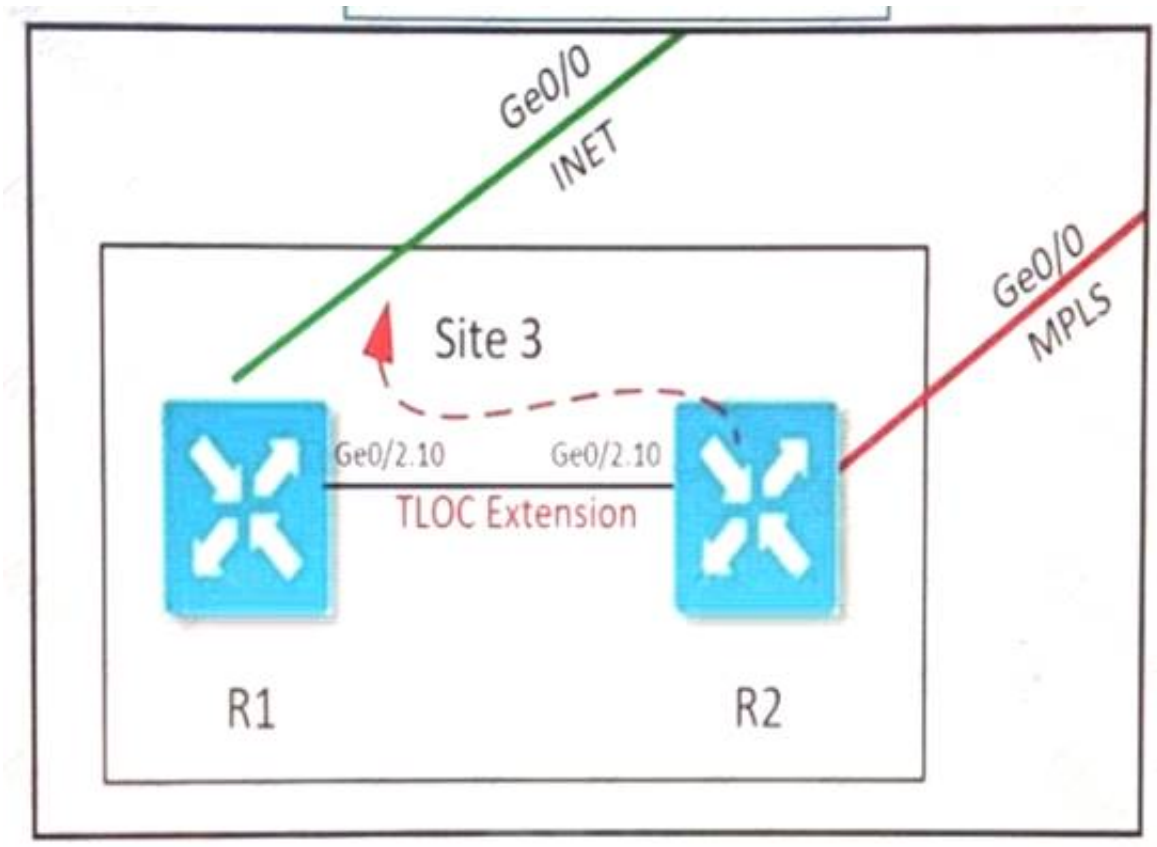
Answer: D

NEW QUESTION 426
What is the procedure to upgrade all Cisco SD-WAN devices to a recent version?

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

Answer: C

NEW QUESTION 430
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 43.43.43.2/30
 tloc-extension ge0/0

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

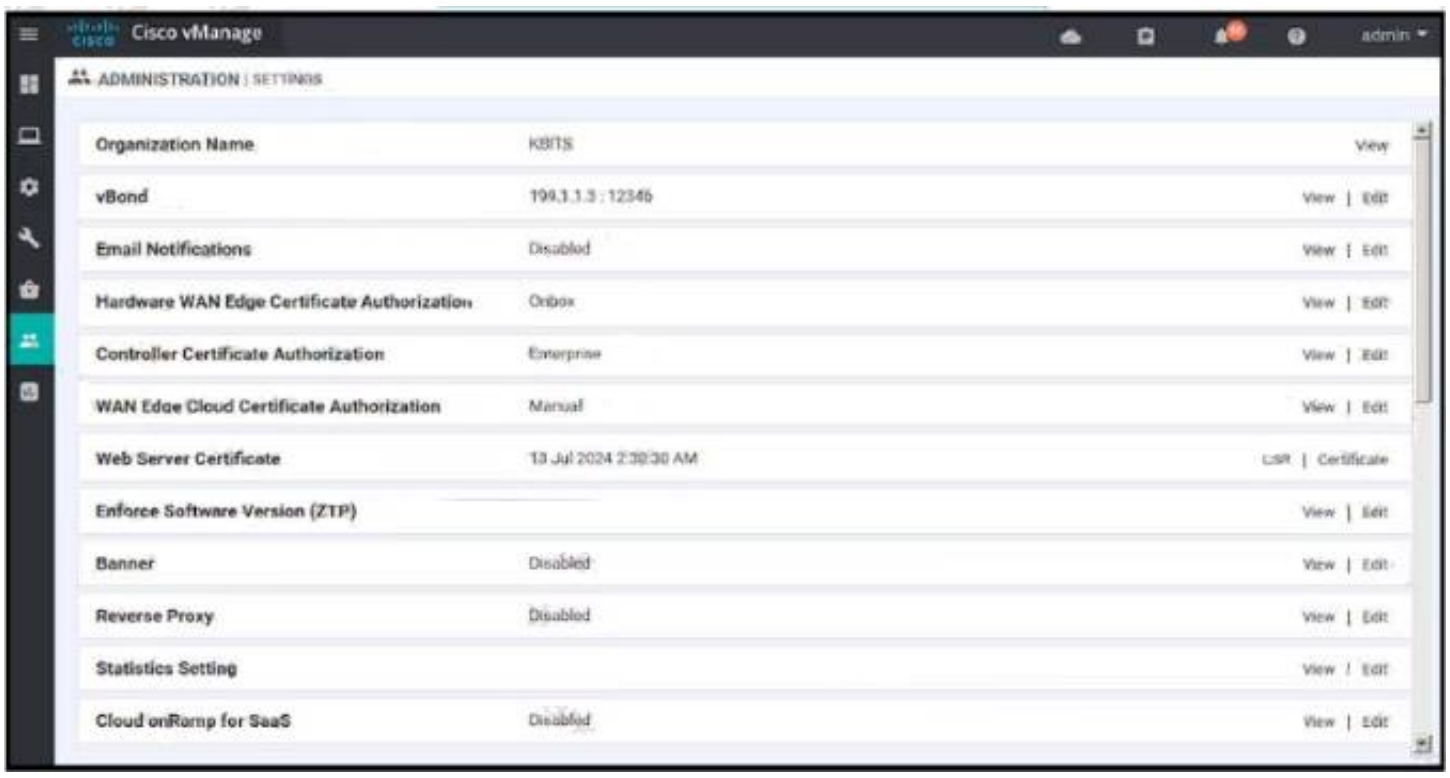
A. Option A
B. Option B
C. Option C

Answer: C

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

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

NEW QUESTION 434
Refer to the exhibit.



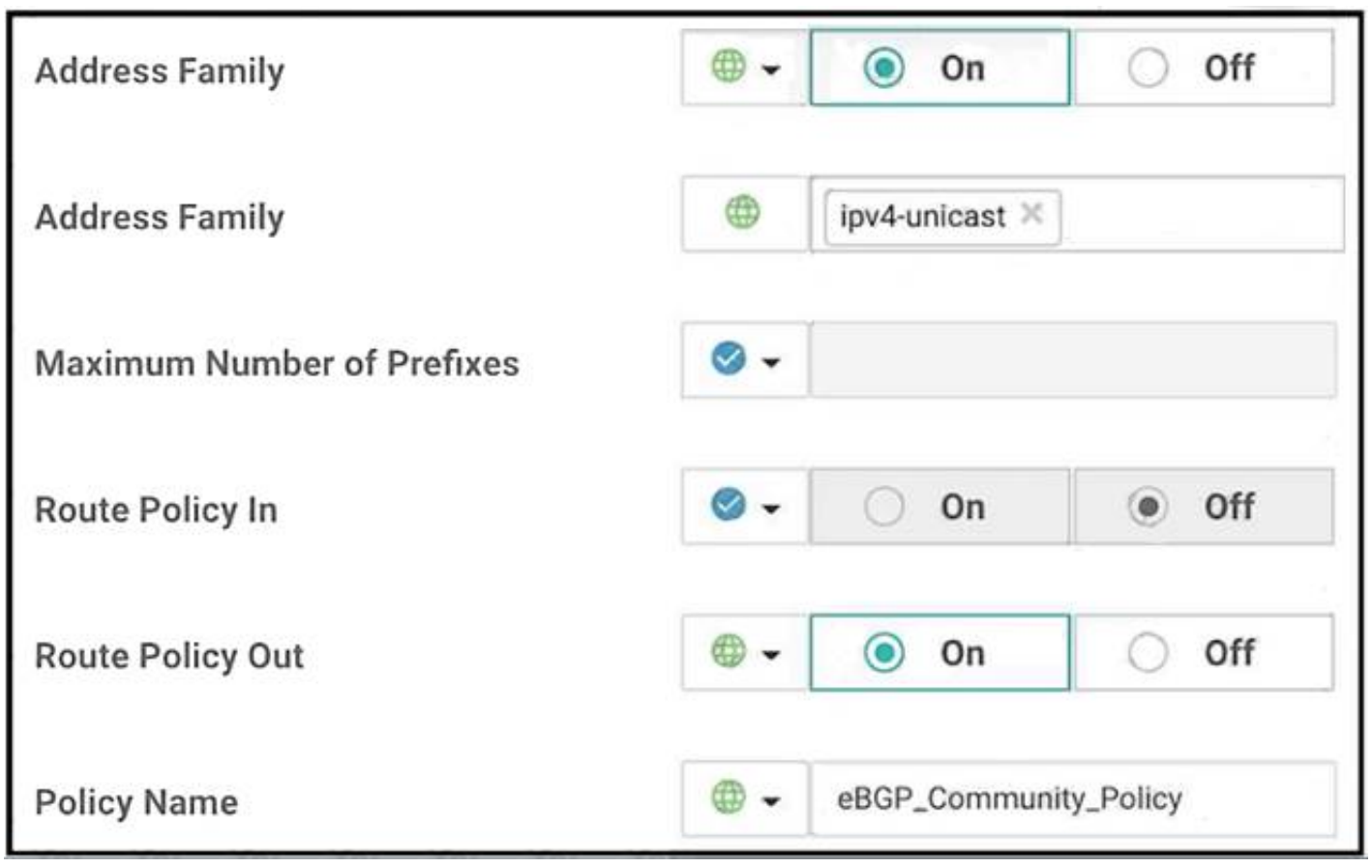
Which two configurations are needed to get the WAN Edges registered with the controllers when certificates are used? (Choose two)

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

Answer: AE

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

NEW QUESTION 438
Refer to the exhibit.



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 443
An engineer is tasked to improve throughput for connection-oriented traffic by decreasing round-trip latency. Which configuration will achieve this goal?

A. turn on "Enable TCP Optimization"
B. turn off "Enhance ECMP Keying"
C. turn off "Enable TCP Optimization"
D. turn on "Enhance ECMP Keying"

Answer: A

Explanation:
TCP optimization fine-tunes the processing of TCP data traffic to decrease round-trip latency and improve throughput.

https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-2.pdf#page=530

NEW QUESTION 446
Which IP address must be reachable by a WAN Edge device for the ZIP process to work?

A. 10.1.1.1
B. 4.4 4.4
C. 172.16.1.1
D. 8.8.8.8

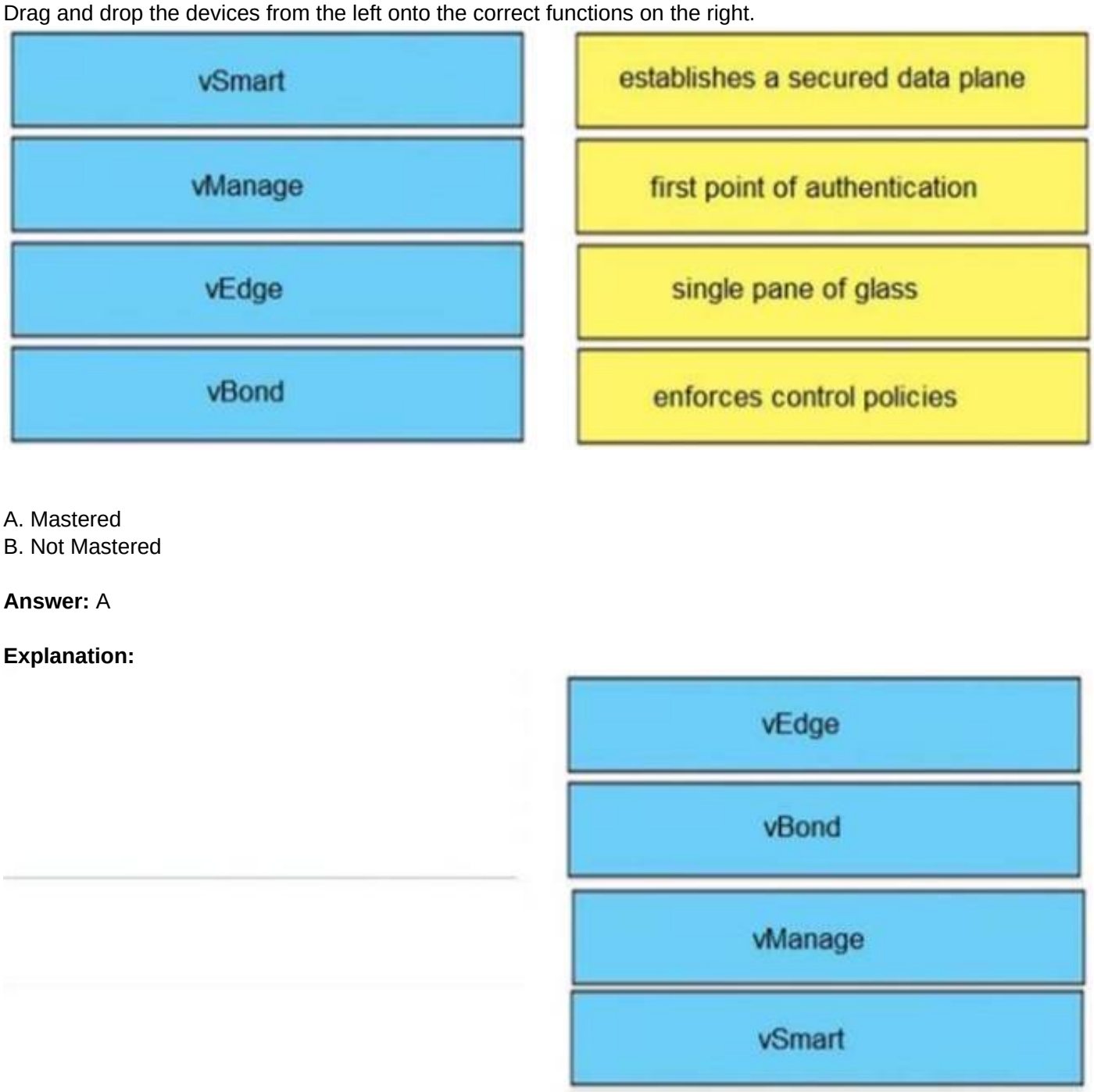
Answer: D

NEW QUESTION 450
Which two protocols are supported for software image delivery when images are hosted on a remote server? (Choose two.)

A. HTTPS
B. SSL
C. HTTP
D. TFTP
E. FTP

Answer: DE

NEW QUESTION 453
Drag and drop the devices from the left onto the correct functions on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 458
Which SD-WAN component is configured to enforce a policy to redirect branch-to-branch traffic toward a network service such as a firewall or IPS?

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

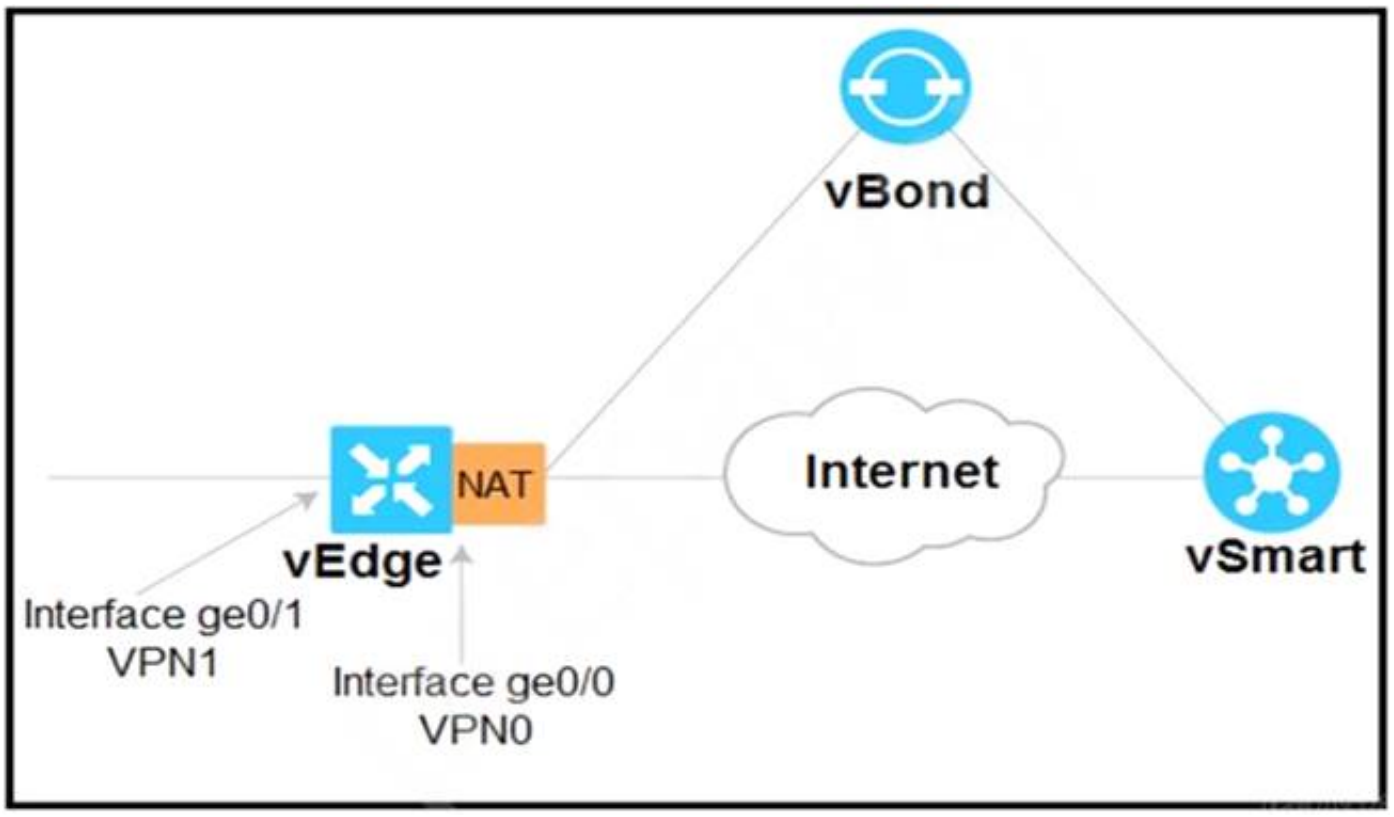
Answer: C

NEW QUESTION 460
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 462
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 465
.....

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