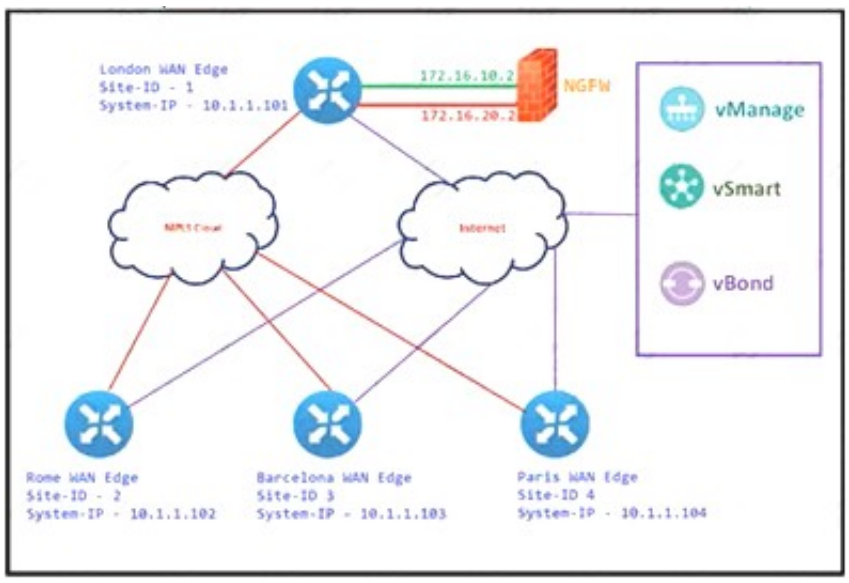
Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
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 2
Refer to the exhibit.

```
vpn 0
interface ge0/0
ip address 10.1.15.15/24
tunnel-interface
color lte
allow-service dhcp
allow-service dns
allow-service icmp

no allow-service sshd
no allow-service ntp
no allow-service stun
!
no shutdown
shaping-rate
```

Which shaping-rate does the engineer use to shape traffic at 9 Mbps?

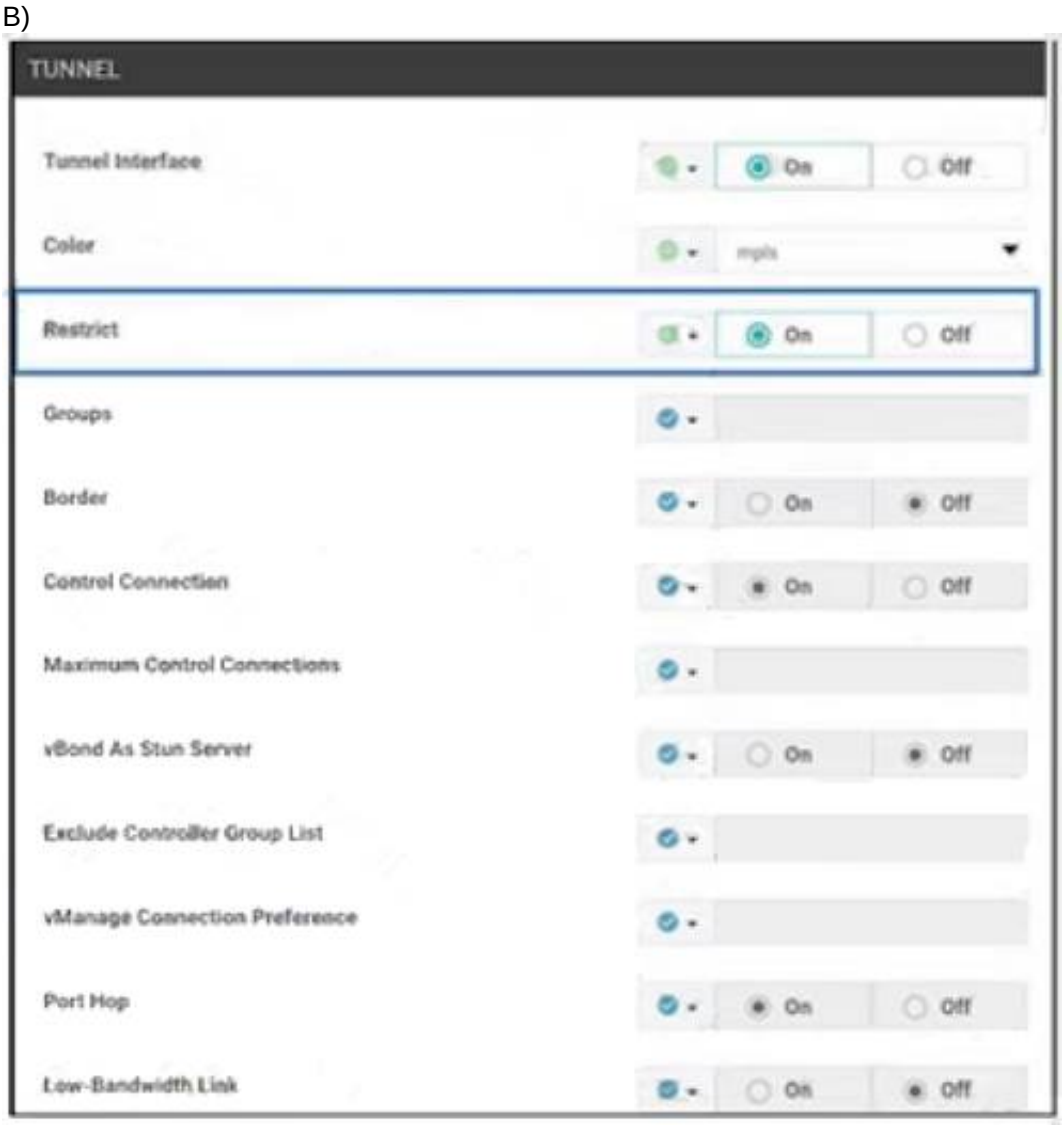
A. 9
B. 9000
C. 90000
D. 9000000

Answer: B

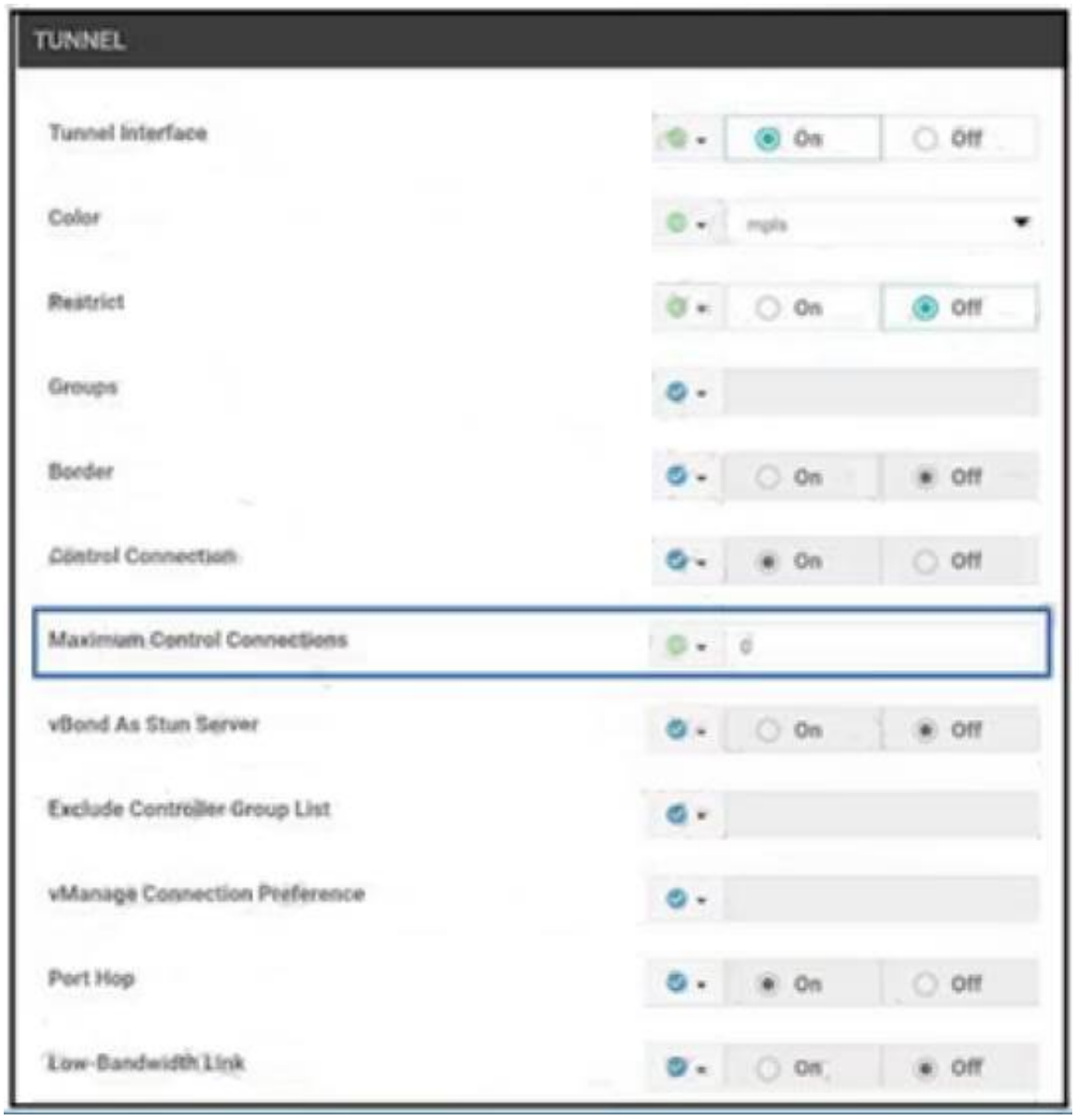
Explanation:
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/config-cmd.html#wp421715213

NEW QUESTION 3
Company E wants to deploy Cisco SD-WAN with controllers in AWS The company's existing WAN is on private MPLS without Internet access to controllers m AWS An Internet circuit is added to a site in addition to the existing MPLS circuit. Which interface template establishes BFD neighbors over both transports?
A)

B)



C)
Miss
D)



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

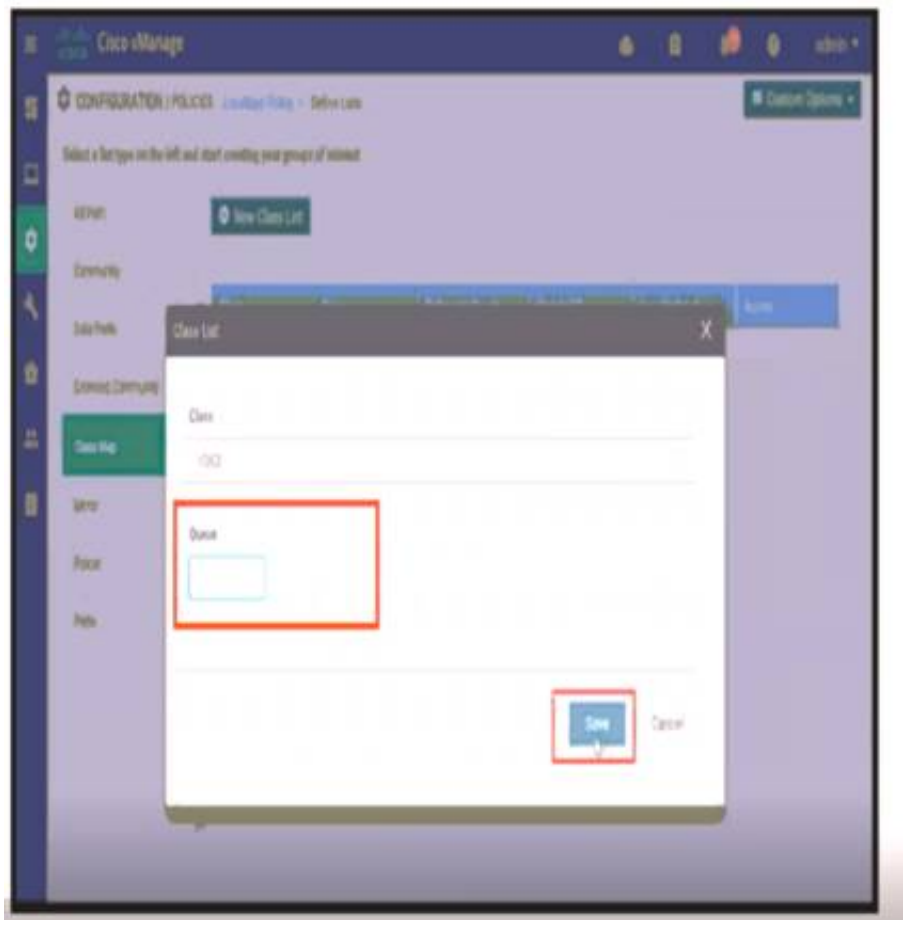
Answer: A

NEW QUESTION 4
Which configuration component is used in a firewall security policy?

A. numbered sequences of match-action pairs
B. application match parameters
C. URL filtering policy
D. intrusion prevention policy

Answer: A

NEW QUESTION 5
Refer to the exhibit.



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

A. 1
B. 2
C. 3

Answer: A

NEW QUESTION 6
An engineer is configuring a WAN Edge router for DIA based on matching QoS parameters. Which two actions accomplish this task? (Choose two.)

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

Answer: CD

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

NEW QUESTION 7
Which two hardware platforms support Cisco IOS XE SD-WAN images" (Choose two)

A. ASR1000 series
B. ISR9300 series
C. vEdge-1000 series
D. ASR9000 series
E. ISR4000 series

Answer: AE

NEW QUESTION 8
Which set of platforms must he in separate VMS as of release 16.1?

A. vSmart and WAN Edge
B. WAN Edge and vBond
C. vManagc and vSmart
D. vBond and vSmart

Answer: D

NEW QUESTION 9
Which API call retrieves a list of all devices in the network?

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

Answer: A

Explanation:

Display all available vEdge routers in the overlay network.

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

NEW QUESTION 10
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 10
Which two different states of a WAN Edge certificate are shown on vManage? (Choose two.)

A. inactive
B. active
C. staging
D. invalid
E. provisioned

Answer: BE

NEW QUESTION 11
What are the default username and password for vSmart Controller when it is installed on a VMware ESXi hypervisor'?

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

Answer: D

NEW QUESTION 12
Refer to the exhibit

PEER TYPE	PEER PROTOCOL	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PRIVATE PEER PORT	PUBLIC PEER PUBLIC IP	PUBLIC PEER 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
Refer to the exhibit.

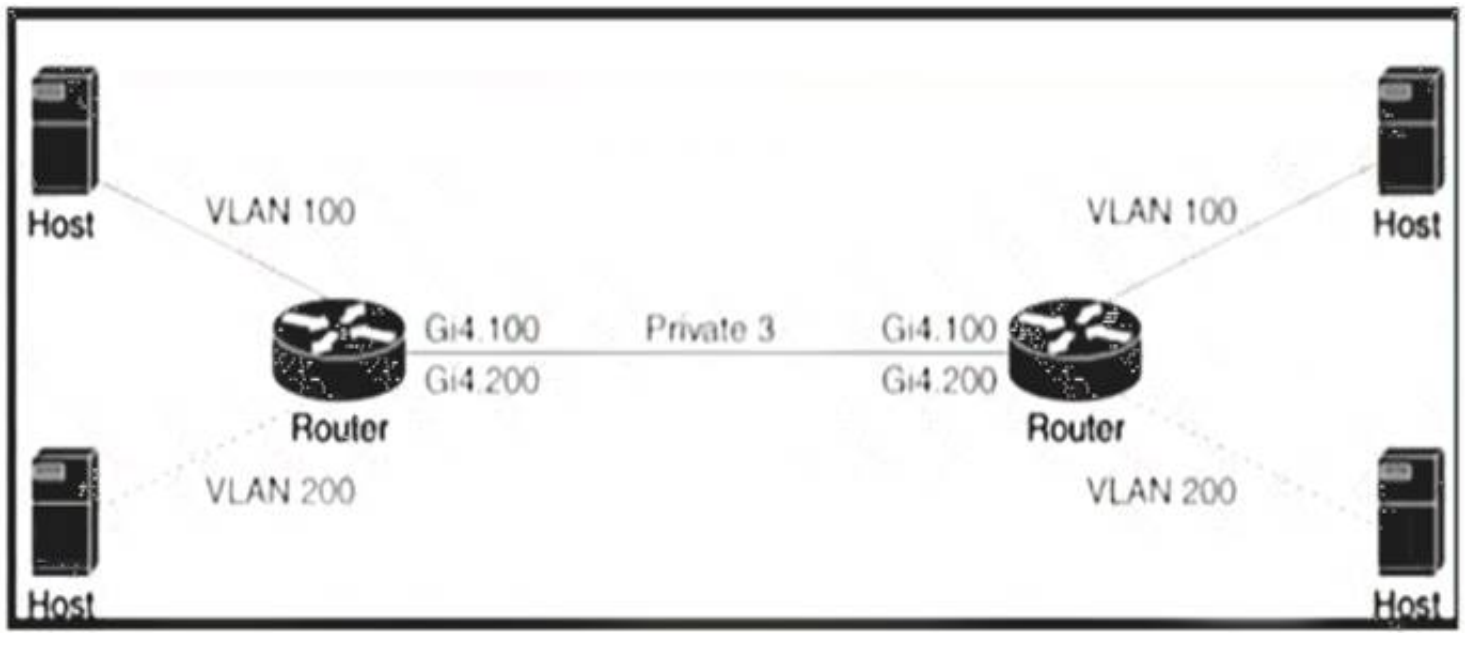
```
LAB-ROUTER#show ip route vrf 100
Gateway of last resort is 10.1.9.2 to network 0.0.0.0

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

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

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

Answer: BC

NEW QUESTION 16
Refer to the exhibit



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

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

B)

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

C)

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

D)

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

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

D. Option D

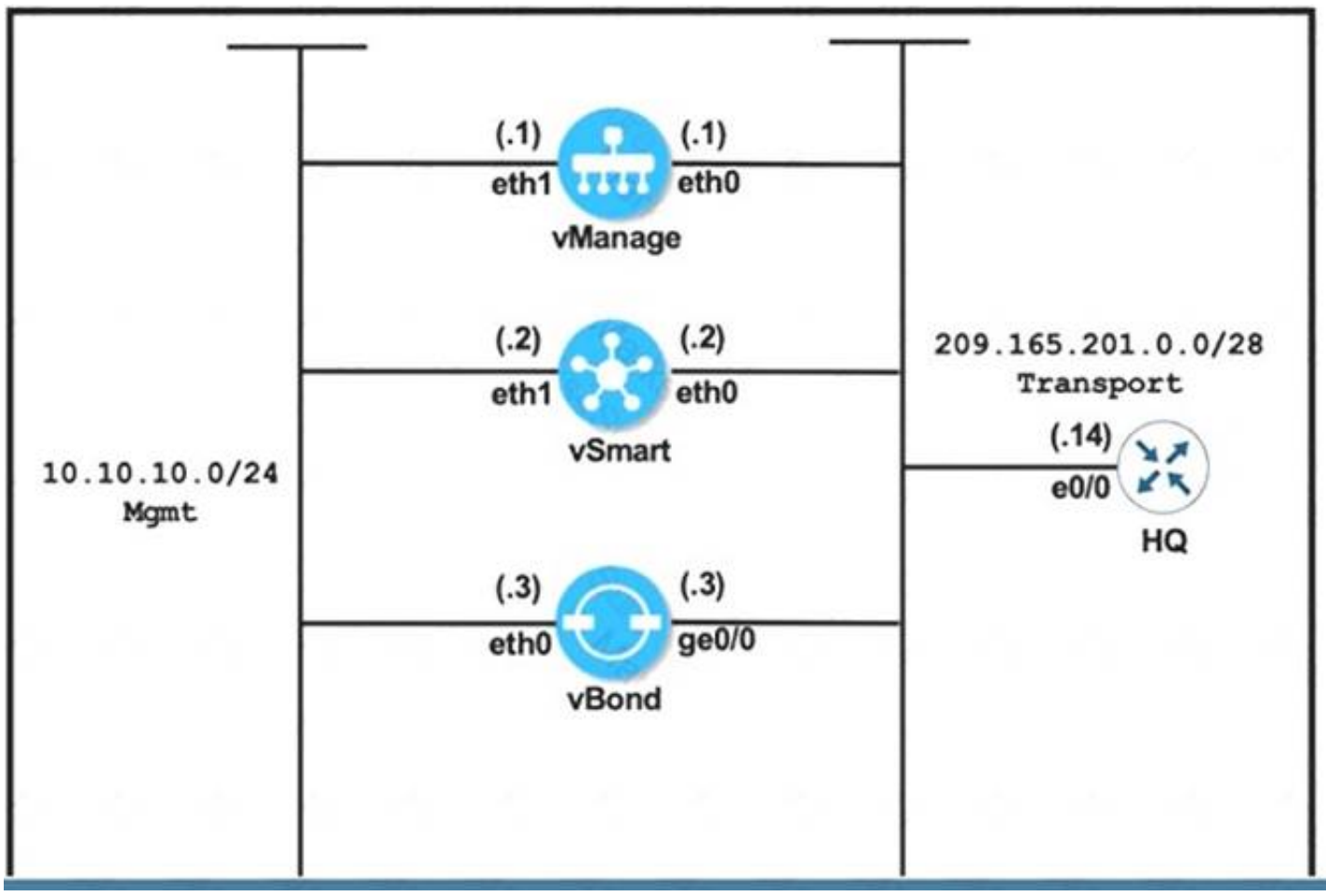
Answer: C

NEW QUESTION 21
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 25
Refer to the exhibit




```
vManage

system
 system-ip 10.10.10.101
 host-name vManage
 site-id 1
 clock timezone Europe/London
 vbond 209.165.201.3
 organization-name Cisco.com
!
vpn 0
 interface eth0
  ip address 209.165.201.1/28
  no shut
  tunnel-interface
  allow-service all
 ip route 0.0.0.0/0 209.165.201.14
!
commit
```

```
vBond

system
 system-ip 10.10.10.103
 host-name vBond
 site-id 1
 clock timezone Europe/London
 vbond 209.165.201.3 local
 organization-name viptela.com
!
vpn 0
 interface ge0/0
  ip address 209.165.201.3/28
  no shut
  tunnel-interface
  encapsulation ipsec
  allow-service all
 ip route 0.0.0.0/0 209.165.201.14
!
commit
```

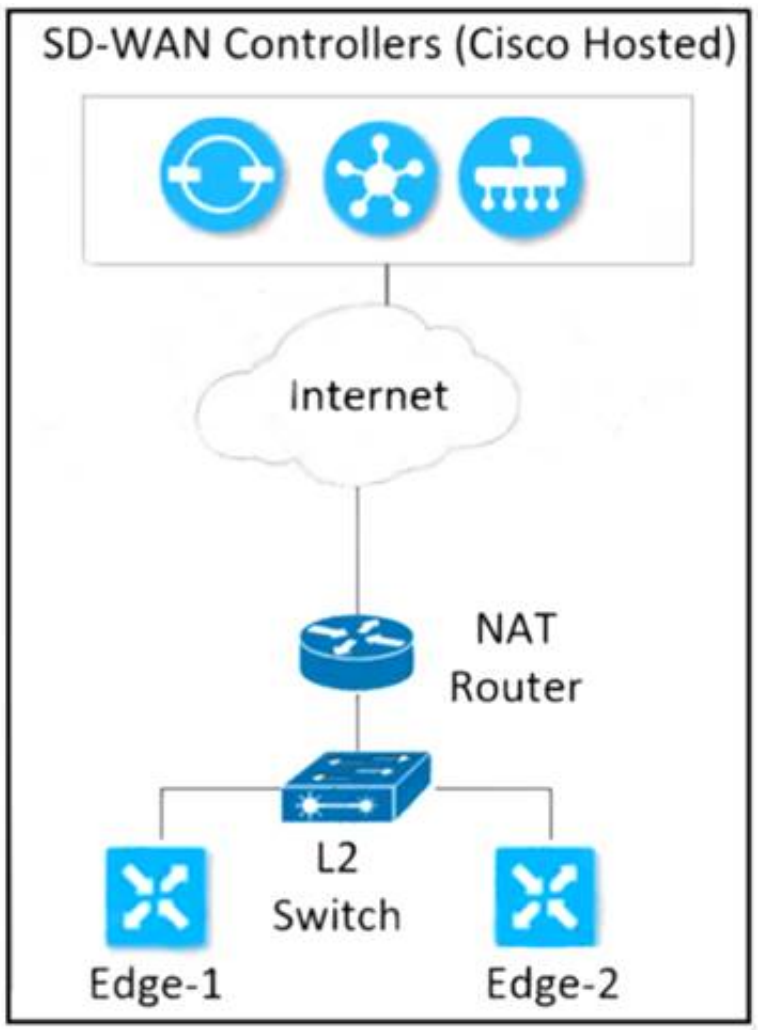
vManage and vBond have an issue establishing a connection with each other Which action resolves the issue?

A. Reconfigure the system IPs to belong to the same subnet
B. Change the organization name on both controllers to match vipteta.com.
C. Remove the encapsulation ipsec command under the tunnel interface of vBond
D. Configure the encapsulation ipsec command under the tunnel interface on vManage

Answer: B

Explanation:
https://community.cisco.com/t5/sd-wan-and-cloud-networking/encapsulation-ipsec-on-vbond/td-p/4451149 "encapsulation" command under vBond tunnel-interface has no meaning and effect.

NEW QUESTION 27
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

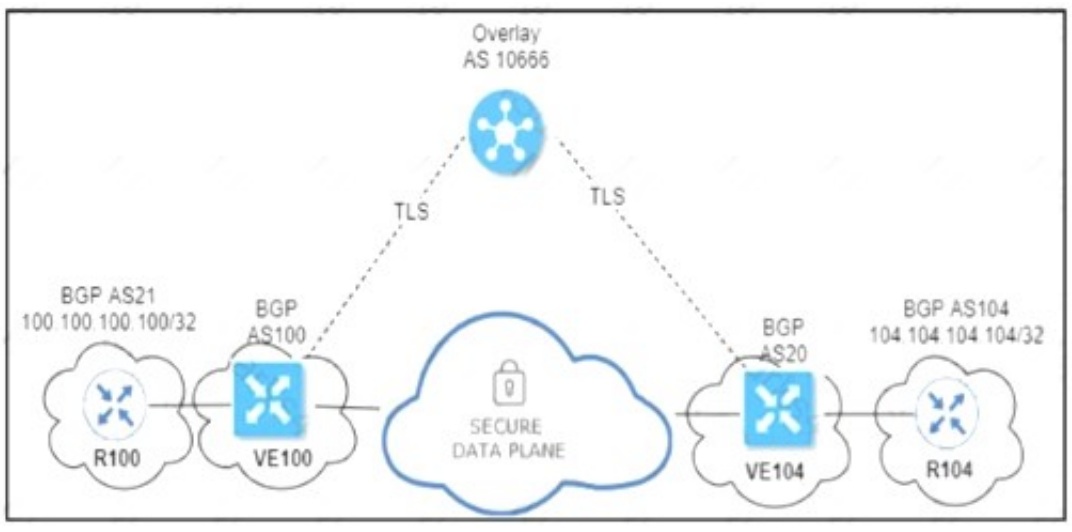
NEW QUESTION 32
An engineer is configuring a shaping rate of 1 Mbps on the WAN link of a WAN Edge router Which configuration accomplishes this task'?

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

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

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

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

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

Answer: B

NEW QUESTION 33
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 35
When the VPN membership policy is being controlled at the vSmart controller, which policy disallows VPN 1 at sites 20 and 30?
A)

```
apply-policy
 site-list 20-30
  vpn-membership disallow-vpn 1
  !
 !
policy
 lists
  site-list 20-30
   site-id 20
   site-id 30
 !
 vpn-list VPN 1
  vpn 10
  vpn 20
 !
!
 vpn-membership disallow-vpn 1
  sequence 10
   match
    vpn-list VPN 1
   !
   action reject
   !
  !
default-action accept
```

B)

```
policy
 lists
  site-list 20-30
   site-id 20
   site-id 30
 !
 prefix-list drop-list
  ip-prefix 10.200.1.0/24
 !
!
control-policy drop-unwanted-routes
  sequence 10
   match route
    prefix-list drop-list
   !
   action reject
   !
  !
  default-action accept
```

C)

```
apply-policy
 site-list 20-30
  vpn-membership disallow-vpn1
 !
!
policy
 lists
  site-list 20-30
   site-id 20
   site-id 30
  !
 !
 vpn-membership disallow-vpn1
  sequence 10
   match vpn-id 1
   action reject
   !
  !
  default-action accept
```

D)

```
policy
   lists
    site-list BP-Sites
        site-id 10
        site-id 20
    vpn-list All-BPs
        vpn 100
        vpn 101
    vpn-list Enterprise-BP
        vpn 200
   control-policy import-BPs-to-Enterprise
    sequence 10
     match route
      vpn-list All-BPs
     !
     action accept
      export-to vpn-list Enterprise-BP
      !
    !
    !
    default-action accept
```

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

Answer: C

NEW QUESTION 38
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 42
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 47
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 51
A Cisco SD-WAN customer has a requirement to calculate the SHA value for files as they pass through the device to see the returned disposition and determine if the file is good, unknown or malicious. The customer also wants to perform real-time traffic analysis and generate alerts when threats are detected Which two Cisco SD-WAN solutions meet the requirements? (Choose two.)

A. Cisco Trust Anchor Module
B. Cisco Threat Grid
C. Cisco Snort IPS
D. Cisco AMP
E. Cisco Secure Endpoint

Answer: CD

NEW QUESTION 55
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 56
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 60
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 61
Two sites have one WAN Edge each WAN Edge has two public TLOCs with no restriction configured. There is full reachability between the TLOCs. How many data tunnels are formed on each Edge router?

A. 2
B. 8
C. 6
D. 4

Answer: D

NEW QUESTION 62
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 65
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 67
Refer to the exhibit

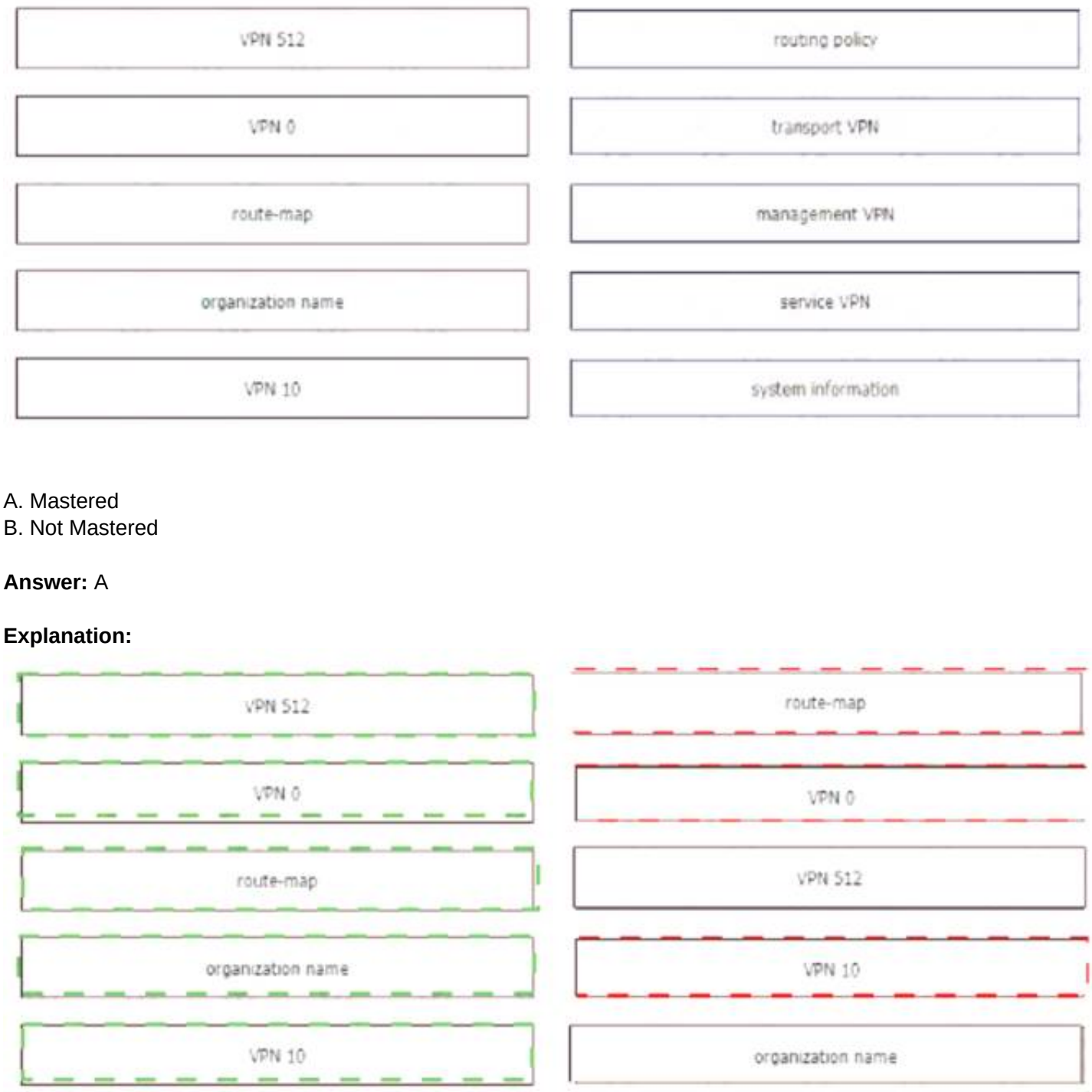
```
vManage#show control local-properties
    personality                vmanage
    sp-organization-name       Cisco
    organization-name          Cisco
    system-ip                  10.1.1.10
    root-ca-chain-status       Installed
    certificate-status         Installed
```

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 69
Drag and drop the functions from the left onto the correct templates on the right.

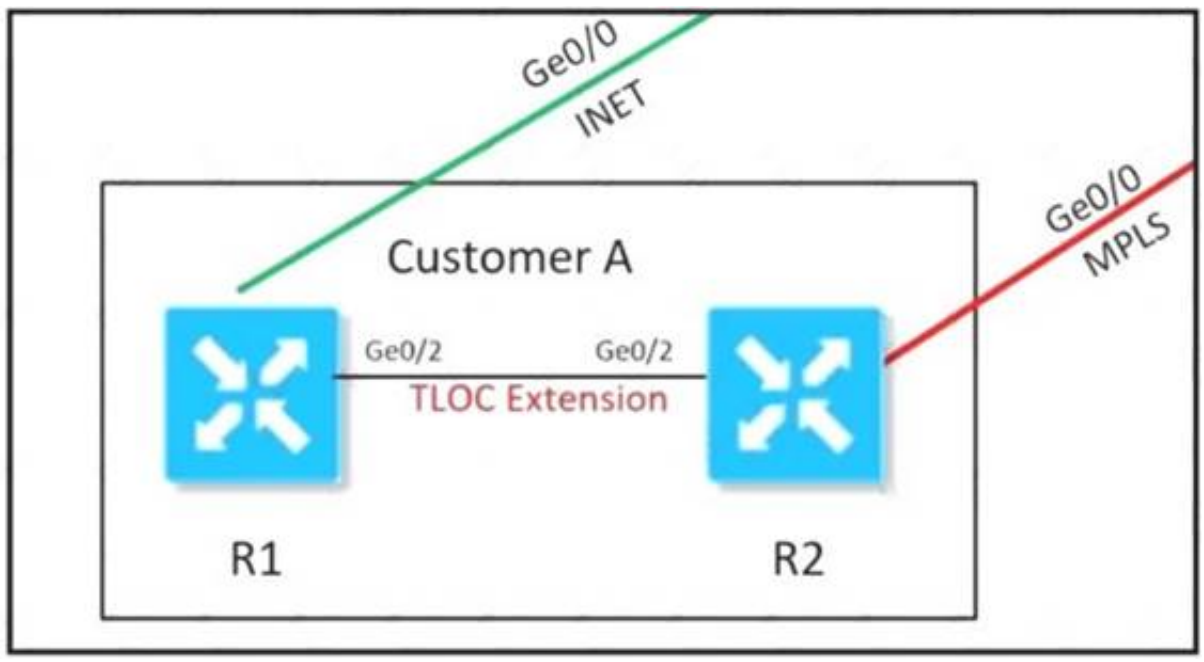


A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 74
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
```

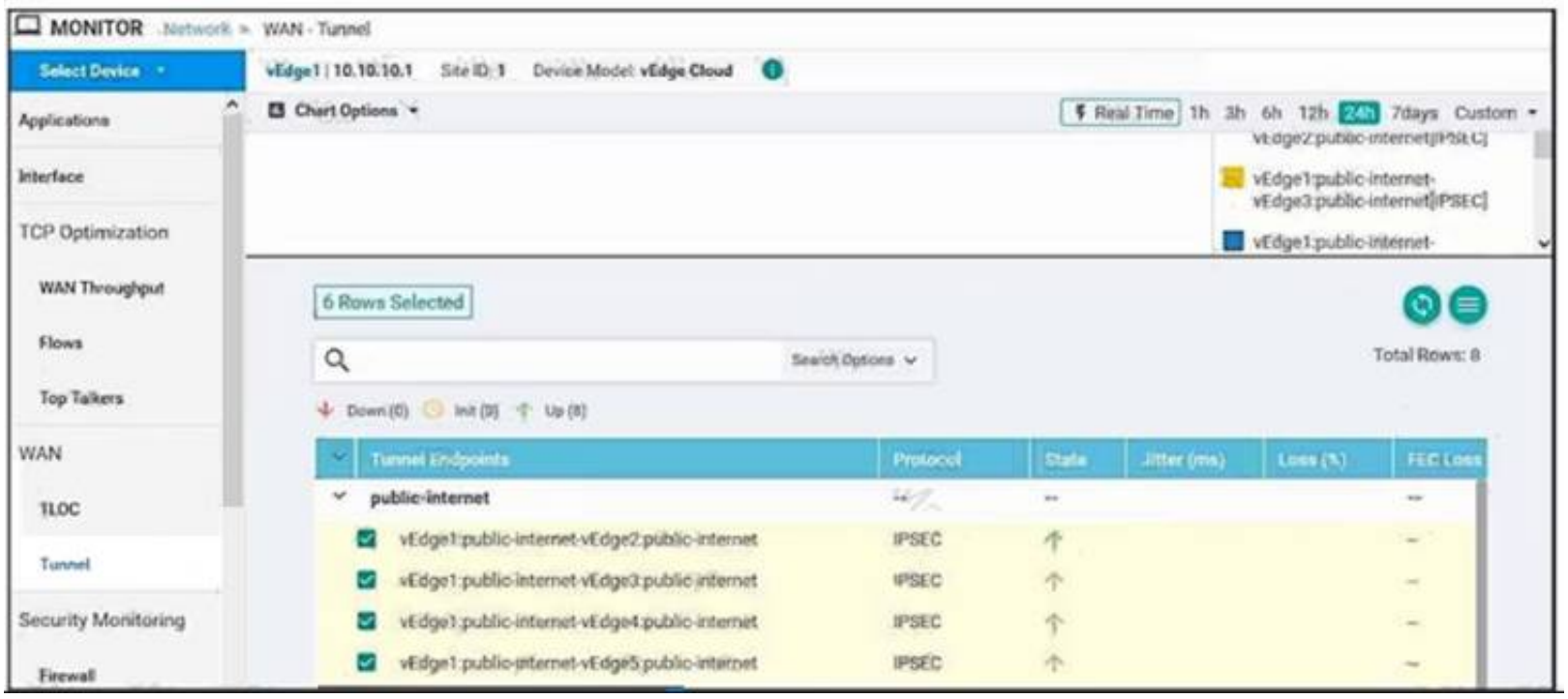
D)

```
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 79
Refer to the exhibit.



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

A)

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

 ip route 0.0.0.0/0 10.50.0.102
```

B)

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

ip route 0.0.0.0/0 10.50.0.102
```

C)

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

 ip route 0.0.0.0/0 10.50.0.102
```

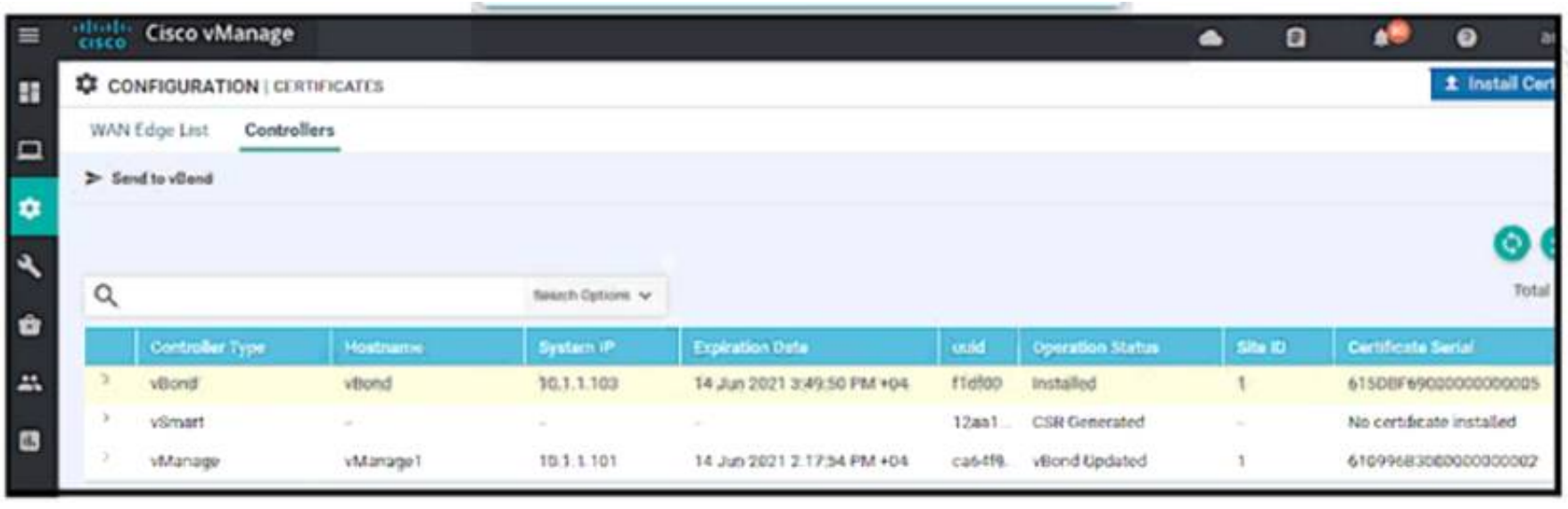
D)

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

ip route 0.0.0.0/0 10.50.0.102
```

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

Answer: B

NEW QUESTION 81
Refer to the exhibit

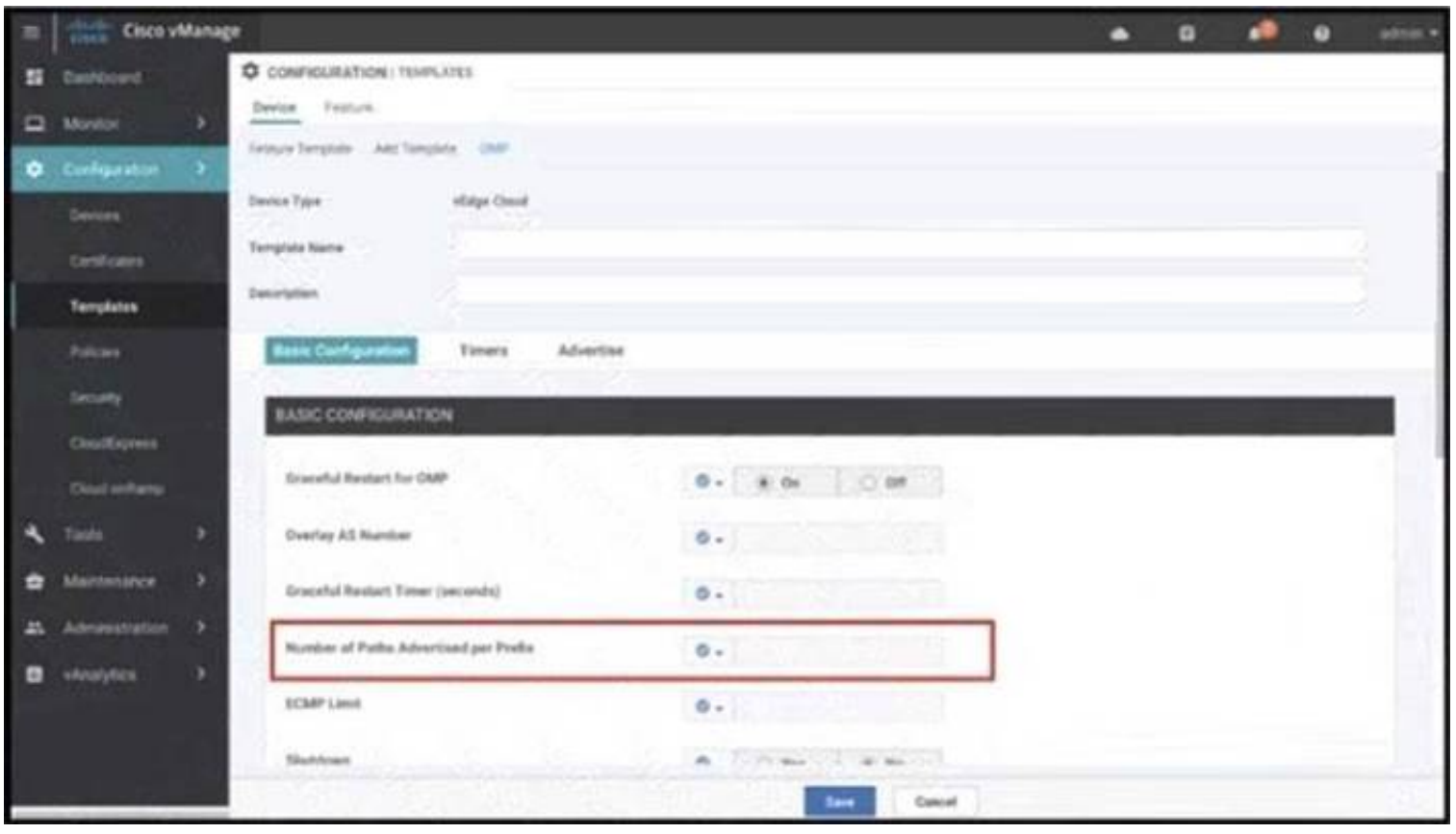


vManage and vBond have an issue establishing a connection to vSmart Which two actions does the administrator take to fix the issue? (Choose two)
Install the certificate received from the certificate server.

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 82
Refer to the exhibit.



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

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

Answer: D

NEW QUESTION 84
What problem happens on a device with two serial numbers, a unique device identifier (UDI), and secure unique device identifier (SUDI) when an engineer provisions ISR 4000 by PnP using only a UDI?

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

Answer: D

NEW QUESTION 86
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 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
```

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 87
Which protocol is used between redundant vSmart controllers to establish a permanent communication channel?

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

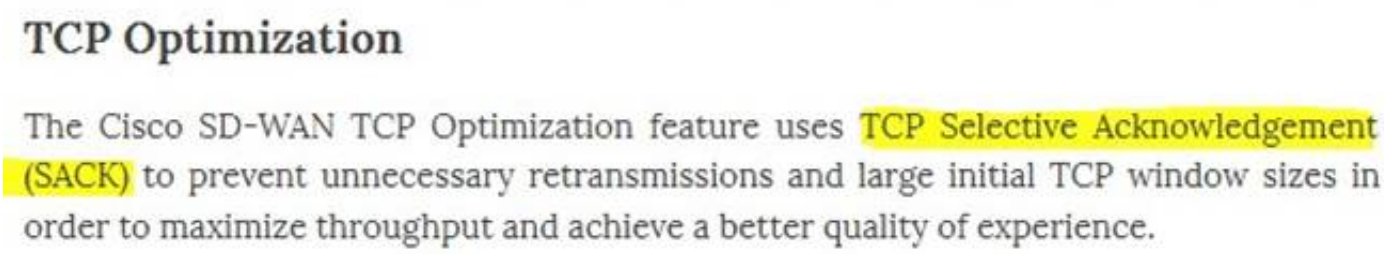
Answer: C

NEW QUESTION 92
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

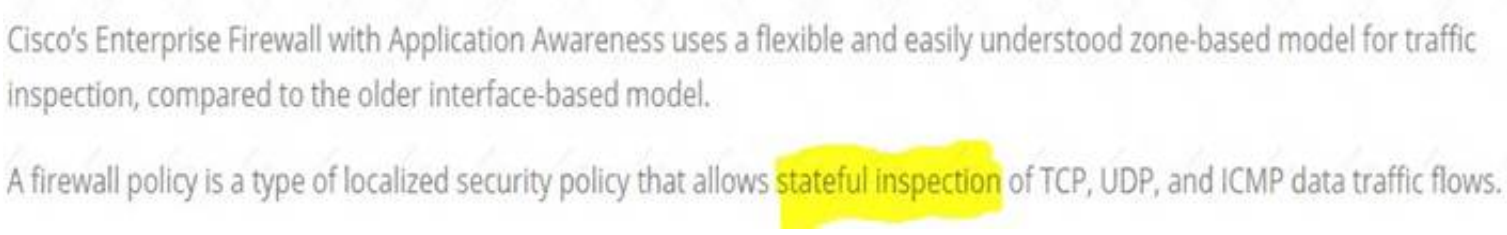
The Cisco SD-WAN TCP Optimization feature uses TCP Selective Acknowledgement (SACK) to prevent unnecessary retransmissions and large initial TCP window sizes in order to maximize throughput and achieve a better quality of experience.

NEW QUESTION 93
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:


Cisco's Enterprise Firewall with Application Awareness uses a flexible and easily understood zone-based model for traffic inspection, compared to the older interface-based model.

A firewall policy is a type of localized security policy that allows stateful inspection of TCP, UDP, and ICMP data traffic flows.

NEW QUESTION 96
An engineer must configure local redundancy on a site. Which configuration accomplish this task?

A. vpn 0interface interface-name
B. tloc extension interlace nametloc extension interface interface name
C. vpn 0tloc extension interface
D. interface-flameinterface interface-name tloc-extension

Answer: A

NEW QUESTION 97
Which two resource data types are used to collect information for monitoring using REST API in Cisco SD-WAN? (Choose two.)

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

Answer: CD

NEW QUESTION 102
Which controller is excluded from the process of checking against the authorized, allowed list?

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

Answer: A

NEW QUESTION 105
Which two actions are necessary to set the Controller Certificate Authorization mode to indicate a root certificate? (Choose two)

A. Select the Controller Certificate Authorization mode that is recommended by Cisco
B. Change the organization name of the Cisco SO-WAN fabric.
C. Upload an SSL certificate to vManape,
D. Select a private certificate signing authority instead of a public certificate signing authority
E. Select a validity period from the drop-down menu

Answer: CD

NEW QUESTION 110
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 112
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 115
An engineer must automate certificate signing through Cisco. Which vManage configuration achieves this task?
A)

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

B)

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

C)

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

D)

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

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

Answer: A

NEW QUESTION 119
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 124
Which feature template configures OMP?
A)

Section	Parameter	Type	Variable/value
Authentication	Authentication Order	Drop-down	local
Local	User/admin/ Password	Device Specific	user_admin_passwd

B)

Section	Parameter	Type	Variable/value
Basic configuration	Number of paths advertised per prefix	Global	16
Advertise	Radio	Global	Off
	Static	Global	Off

C)

Section	Parameter	Type	Variable/value
Server	Hostname/IP Address	Global	10.4.48.13
	VPN ID	Global	1
	Source interface	Global	loopback0

D)

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

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

Answer: B

NEW QUESTION 126
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 127
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 130
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 133
What is the default value for the Multiplier field of the BFD basic configuration in vManage?

A. 3
B. 4
C. 5
D. 6

Answer: D

NEW QUESTION 136
How should the IP addresses be assigned for all members of a Cisco vManage cluster located in the same data center?

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

Answer: A

NEW QUESTION 140
An engineer creates a data policy to prevent communication from the 172.20.21.0/24 network to the 172.20.41.0/24 network. Which configuration accomplishes this task?

```
policy
  lists
   vpn-list VPN1
   vpn 1
  !
   data-prefix-list LosAngeles-Net1
    ip-prefix 172.20.21.0/24
   data-prefix-list Rome-Net1
    ip-prefix 172.20.41.0/24
 !
  data-policy FILTER-POLICY
   vpn-list VPN1
   sequence 1
    match
     source-data-prefix-list     LosAngeles-Net1
     action drop
   !
   sequence 11
    match
     source-data-prefix-list     Rome-Net1
     action drop
 !
  default-action accept
```

```
policy
  lists
   vpn-list VPN1
   vpn 1
  !
   data-prefix-list LosAngeles-Net1
    ip-prefix 172.20.21.0/24
   data-prefix-list Rome-Net1
    ip-prefix 172.20.41.0/24
 !
  data-policy FILTER-POLICY
   vpn-list VPN1
    sequence 1
     match
      source-data-prefix-list     LosAngeles-Net1
      destination-data-prefix-list Rome-Net1
      action drop
   !
  default-action accept
```

```
policy
  lists
   vpn-list VPN1
   vpn 1
  !
   data-prefix-list LosAngeles-Net1
    ip-prefix 172.20.0.0/16
   data-prefix-list Rome-Net1
    ip-prefix 172.20.0.0/16
 !
  data-policy FILTER-POLICY
   vpn-list VPN1
    sequence 1
     match
      source-data-prefix-list     LosAngeles-Net1
      destination-data-prefix-list Rome-Net1
      action drop
   !
  default-action accept
```

```
policy
  lists
   vpn-list VPN1
   vpn 1
  !
   data-prefix-list LosAngeles-Net1
    ip-prefix 172.20.21.0/24
   data-prefix-list Rome-Net1
    ip-prefix 172.20.41.0/24
!
  data-policy FILTER-POLICY
   vpn-list VPN1
    sequence 1
     match
      source-data-prefix-list      LosAngeles-Net1
      destination-data-prefix-list Rome-Net1
      action accept
!
default-action drop
```

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

Answer: B

NEW QUESTION 141
Which Cisco SD-WAN component the initial communication between WAN Edge devices to join the fabric?

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

Answer: D

Explanation:

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

NEW QUESTION 145
A network administrator is configuring Qos on a vEdge 5000 router and needs to enable it on the transport side interface. Which policy setting must be selected to accomplish this goal?

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

Answer: B

Explanation:

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

NEW QUESTION 146
Drag and drop the security terminologies from the left onto the PCI-compliant network features and devices on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, application Description automatically generated

NEW QUESTION 148
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 151
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 154
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 156
Which vBond system configuration under VPN 0 allows for a routable public IP address even if the DNS name, hostname, or IP address of the vBond orchestrator are omitted?

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

Answer: A

NEW QUESTION 161
An enterprise deployed a Cisco SD-WAN solution with hub-and-spoke topology using MPLS as the preferred network over the Internet. A network engineer must implement an application-aware routing policy to allow ICMP traffic to be load-balanced over both the available links. Which configuration meets the requirement?
A)

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

B)

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

C)

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

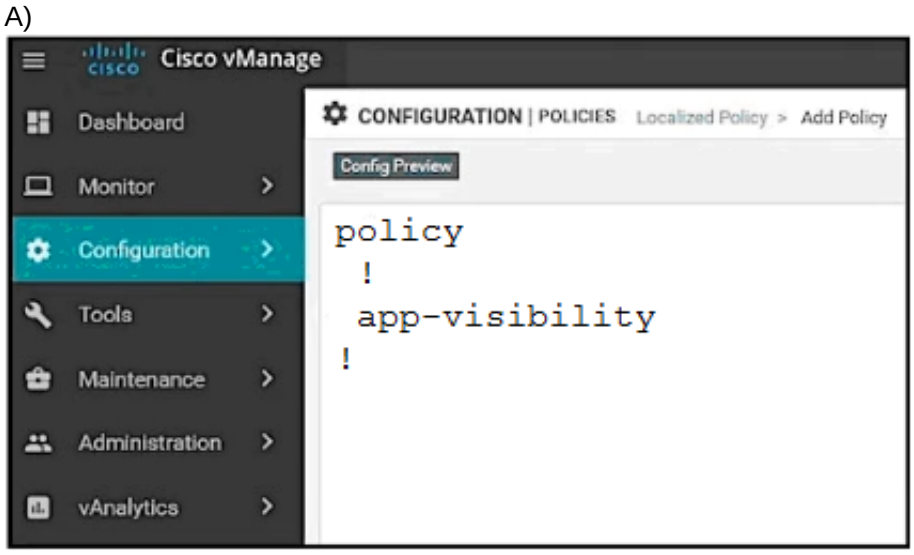
D)

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

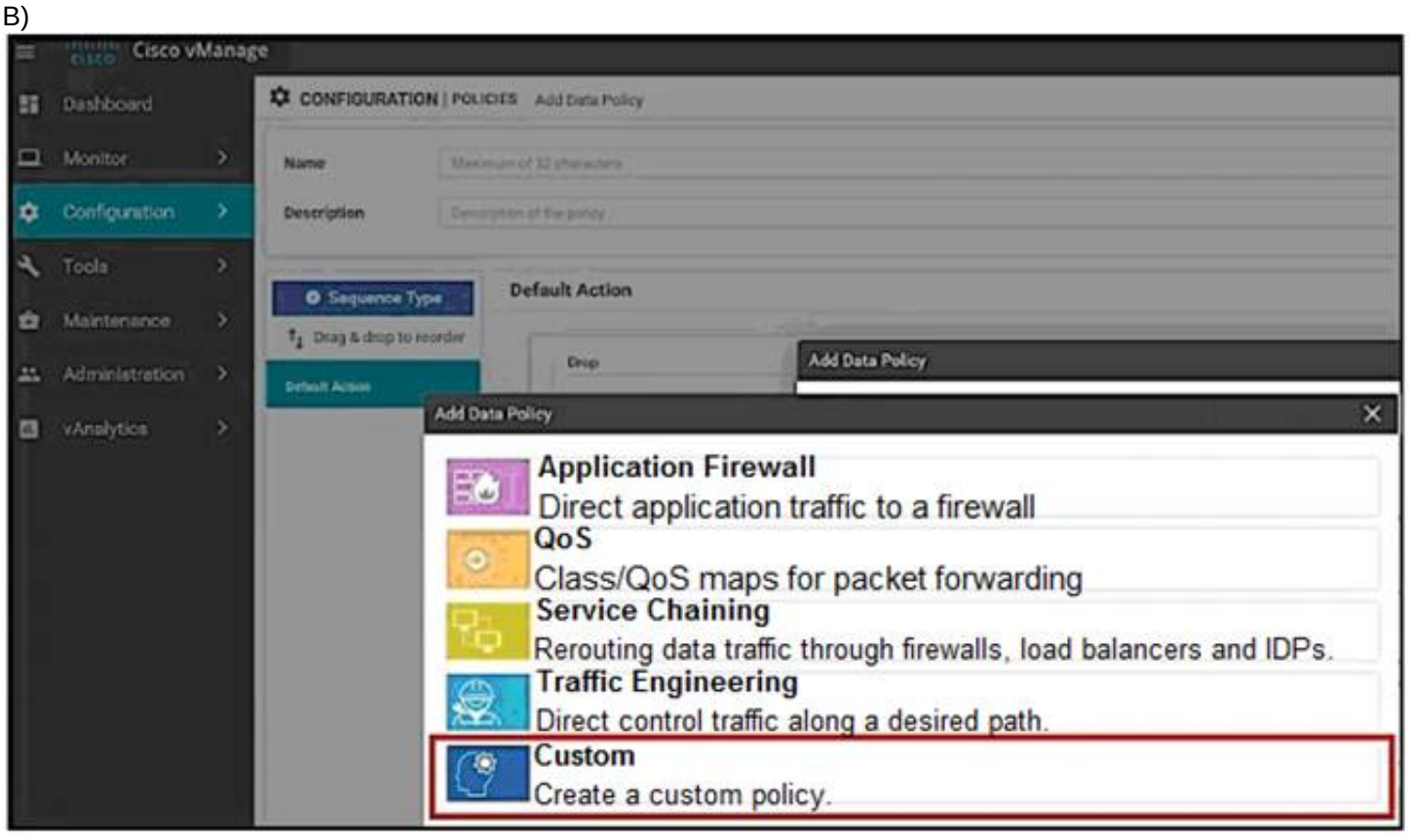
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

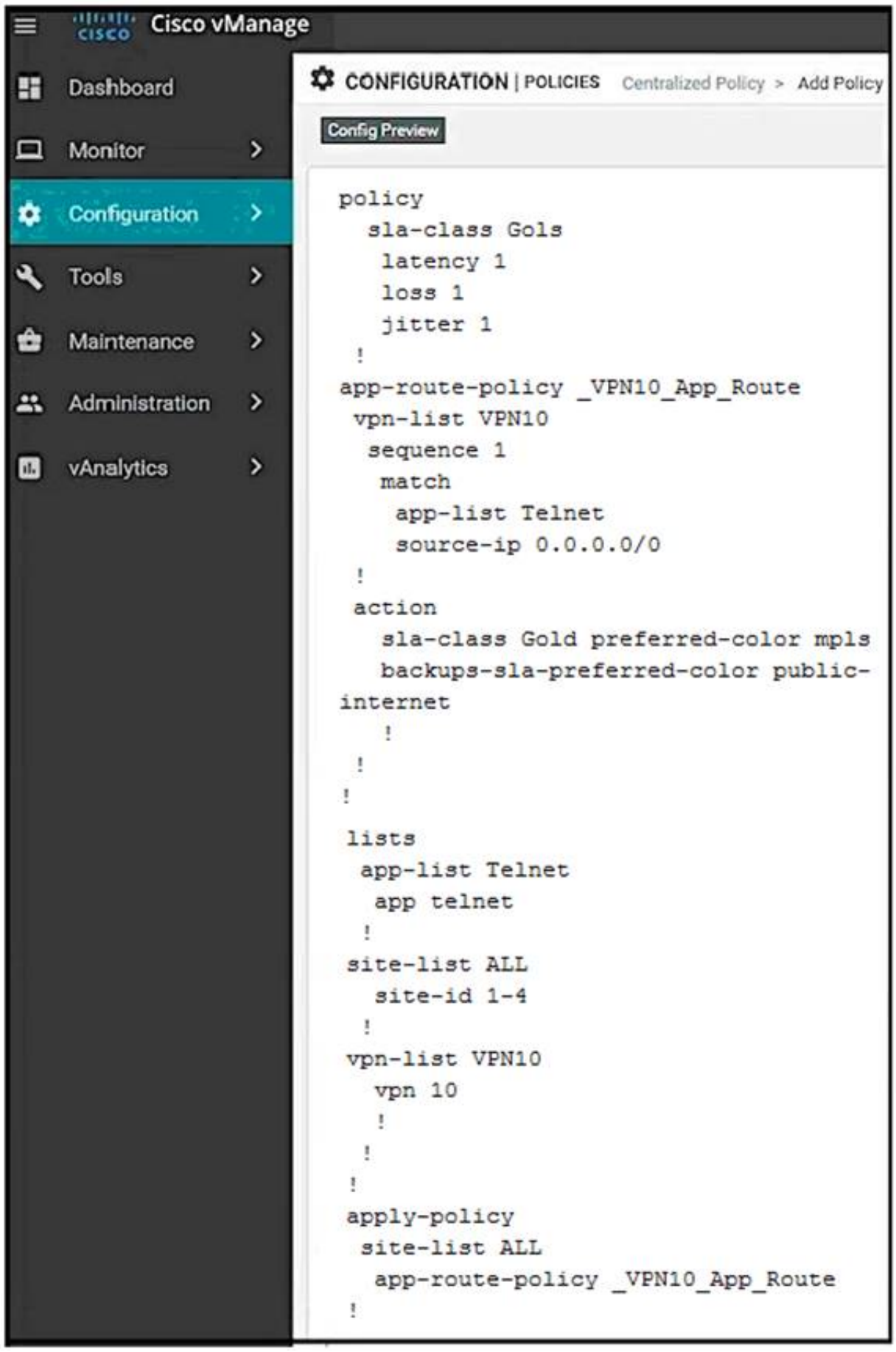
NEW QUESTION 165
An organization wants to discover, monitor, and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?
A)



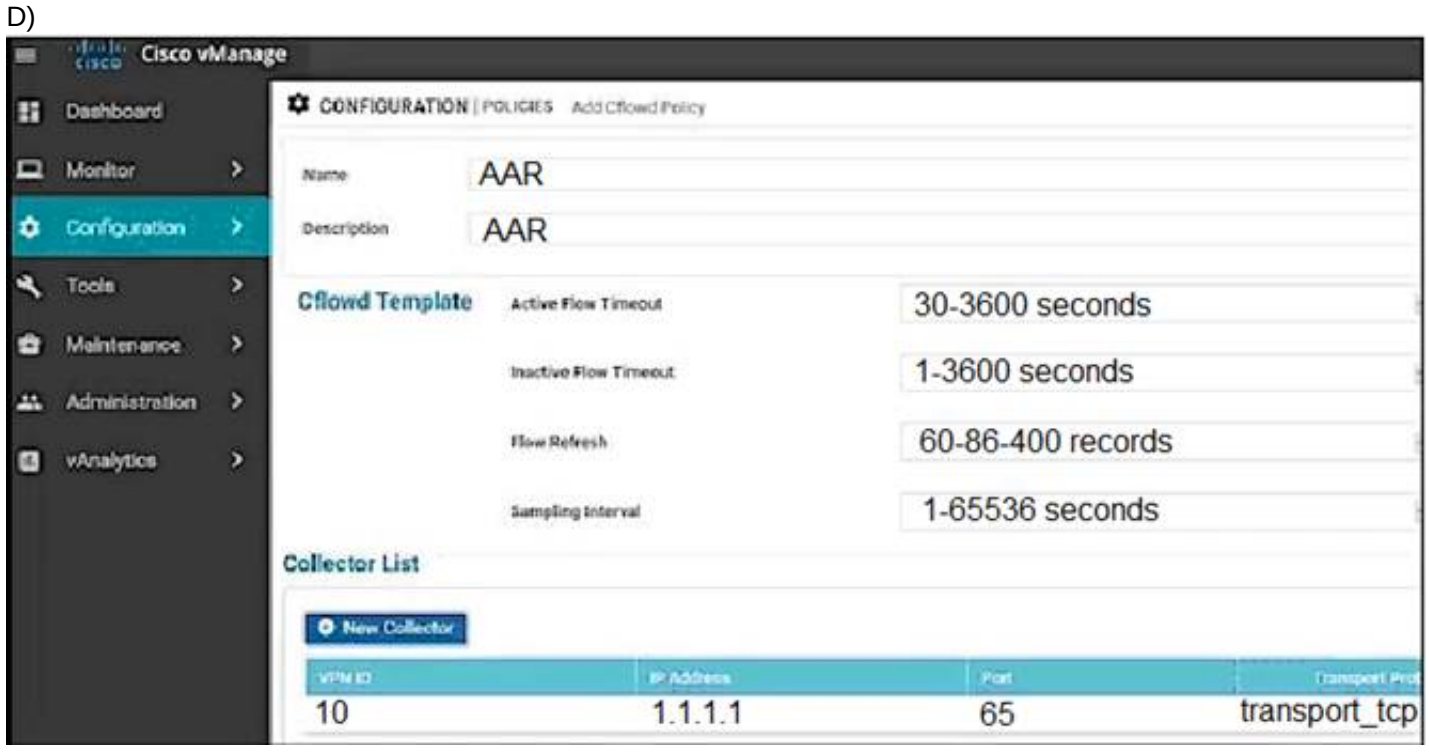
B)



C)



D)



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

Answer: D

NEW QUESTION 168
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 171
Which queue must an engineer configure for control and BFD traffic for convergence on a WAN Edge router?

A. queue 0
B. queue 1
C. queue 2
D. queue 7

Answer: C

NEW QUESTION 175
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 176
Drag and drop the REST API calls from the left onto the functions on the right.

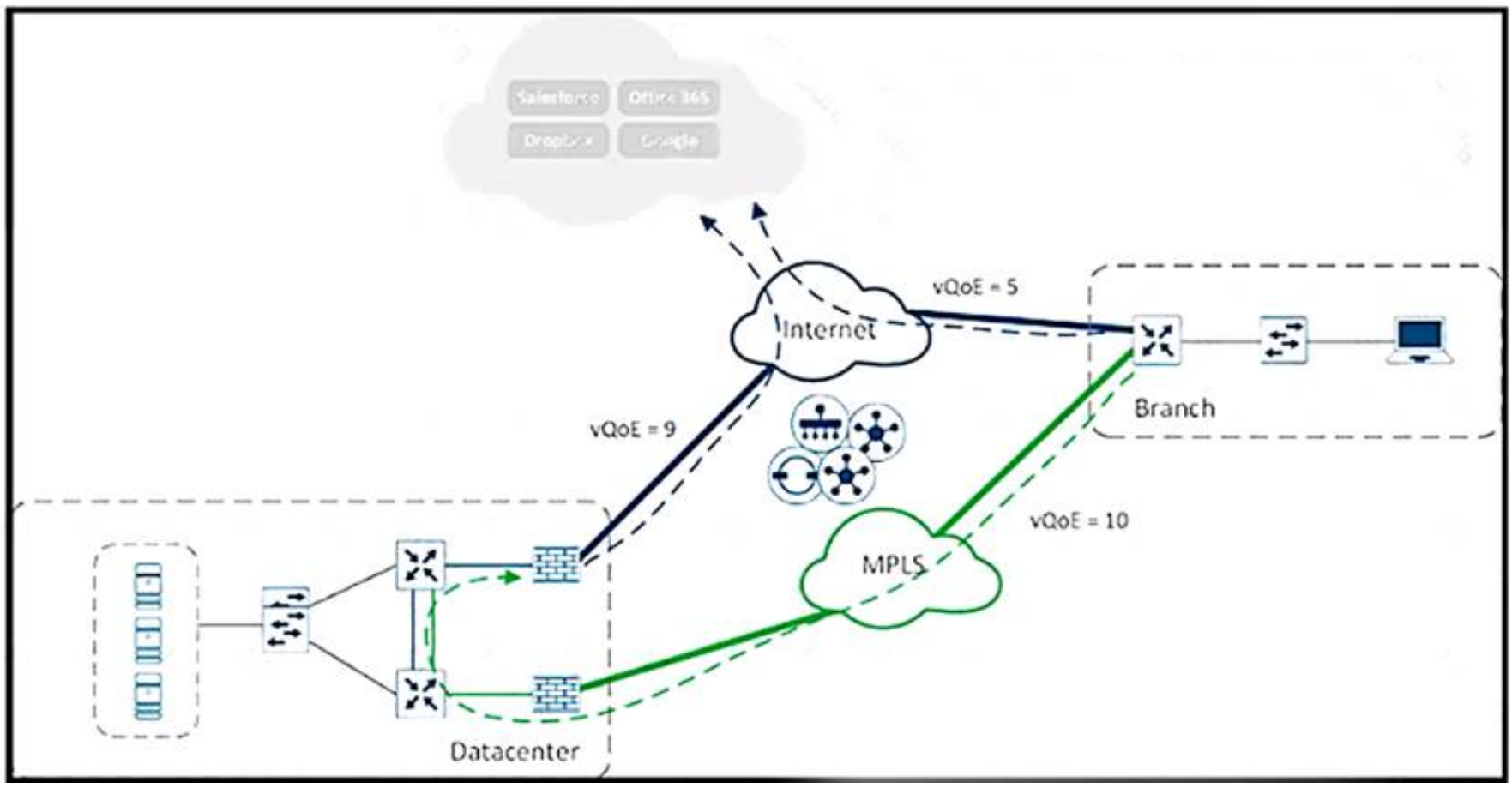
A. Mastered
B. Not Mastered

Answer: A

Explanation:

- GET: Get resource from the server.
- POST: Create resource to the server.
- PATCH or PUT: Update existing resource on the server.
- DELETE: Delete existing resource from the server.

NEW QUESTION 180
Refer to the exhibit.



A user in the branch is connecting to Office 365 for the first time. Over which path does the branch WAN Edge router traffic follow?

A. routing table of the branch WAN Edge router
B. DIA exit of the branch WAN Edge router
C. forwarded to the gateway site
D. dropped because the minimum vQoE score has not been met

Answer: B

NEW QUESTION 185
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 186
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 190
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

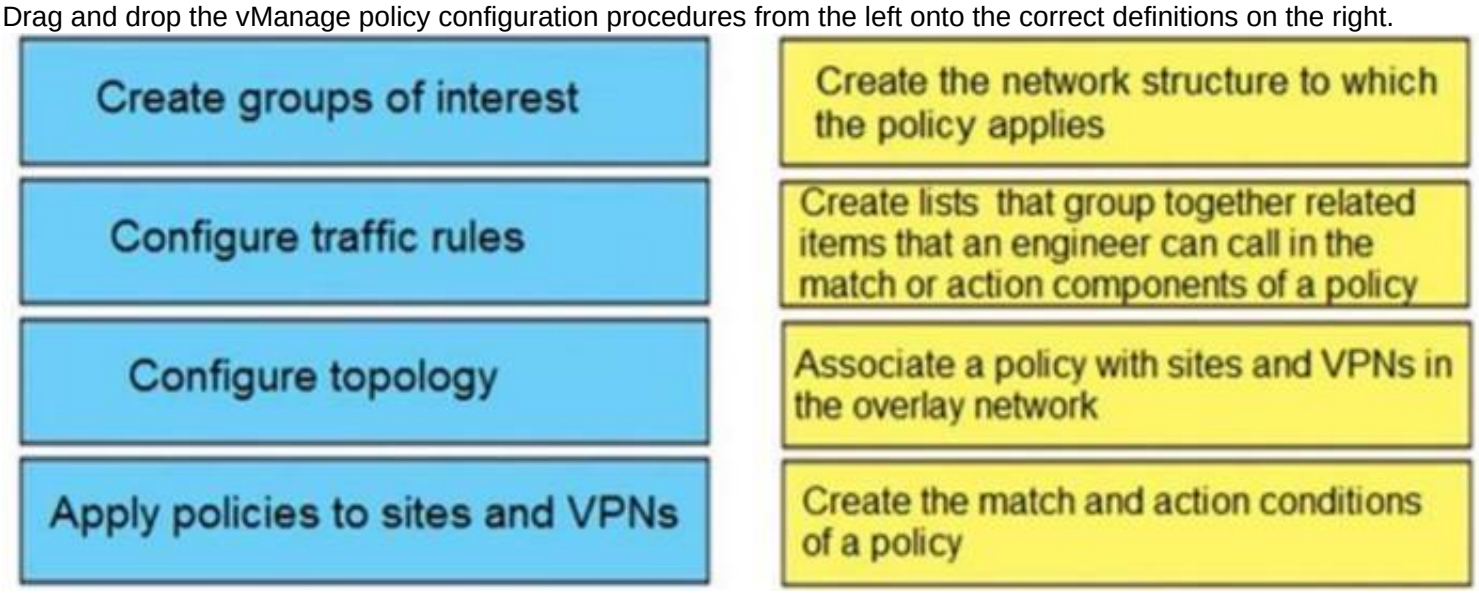
Answer: C

NEW QUESTION 193
Which Cisco SD-WAN WAN Edge platform supports LTE and Wi-Fi?

A. vEdge2000
B. ASR1001
C. CSR 1000v
D. ISR 1101

Answer: D

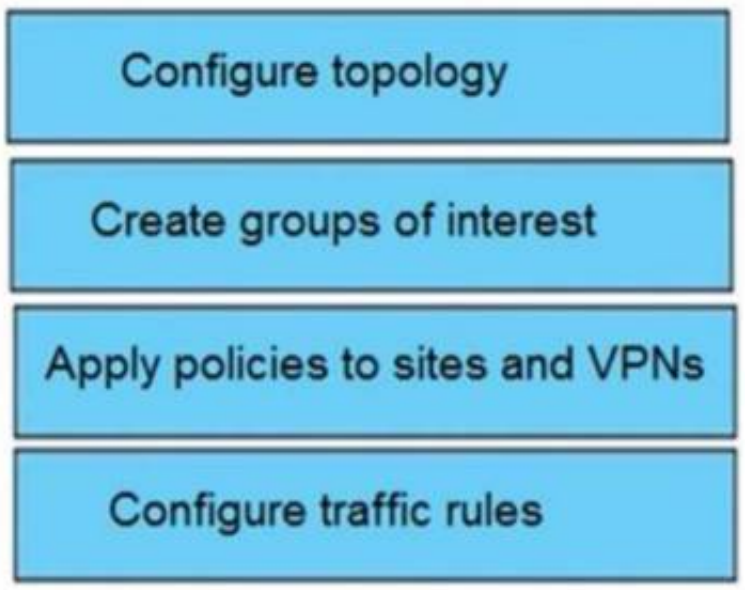
NEW QUESTION 195
Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 196
How is the scalability of the vManage increased in Cisco SD-WAN Fabric?

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

Answer: B

NEW QUESTION 199
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 204
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 208
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

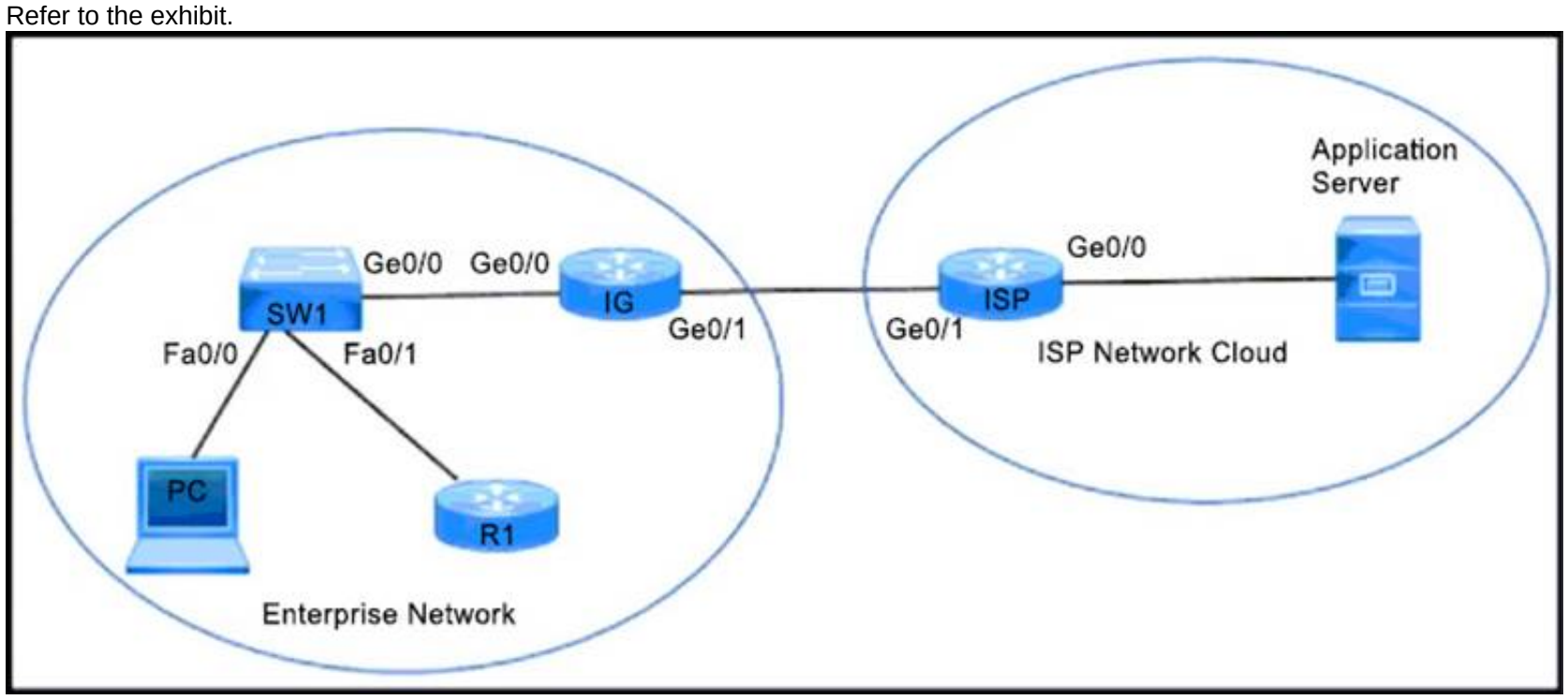
Answer: B

NEW QUESTION 213
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 217
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 220
An engineer configures policing with a rate of 125 Bps and a burst rate of 8000 bits, as shown here:

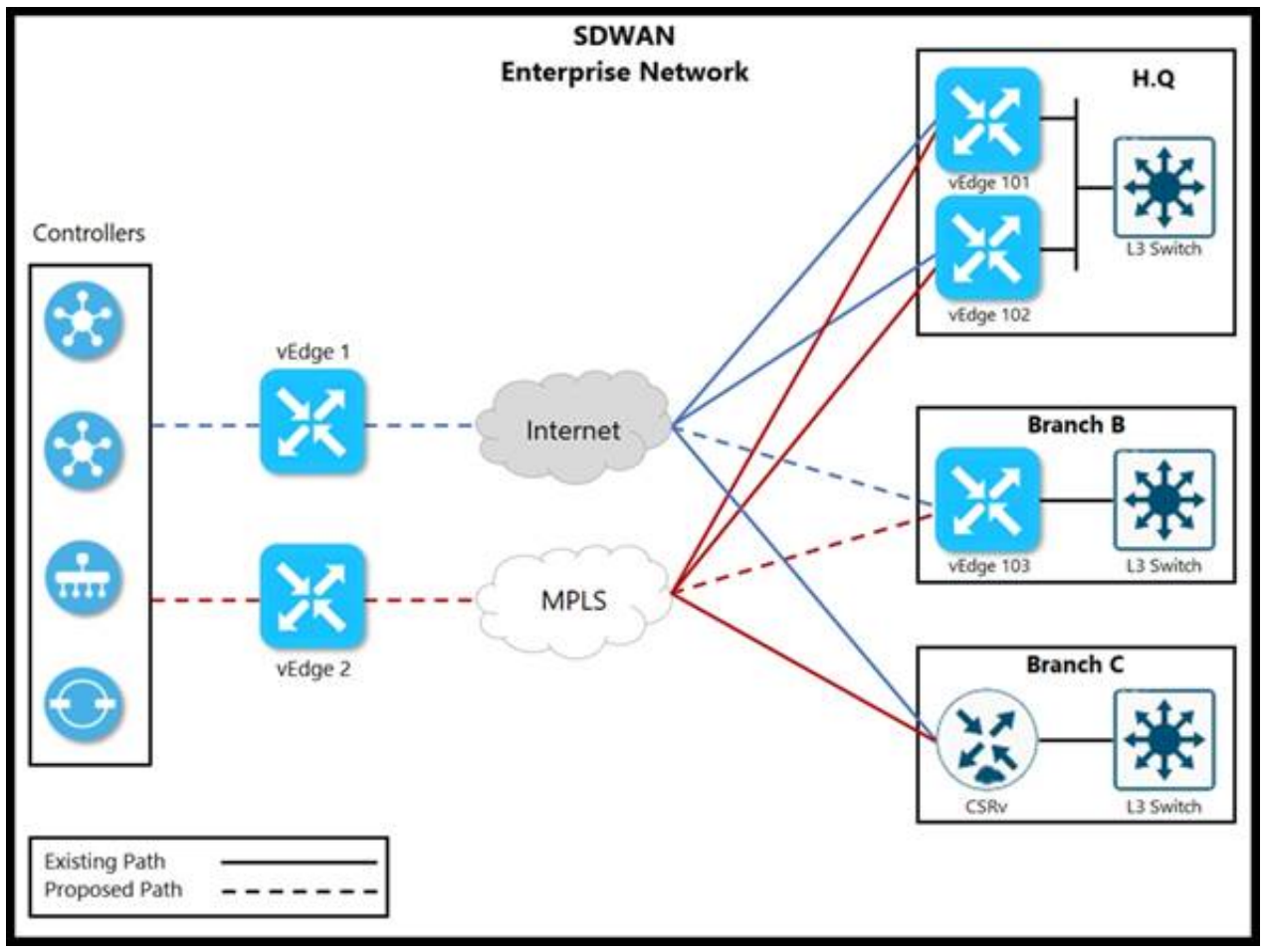
```
policy
 policer p1
 rate
 burst
 exceed drop
!
access-list acl1
 sequence 1
 match
 source-ip 2.2.0.0/16
 destination-ip 10.1.1.0/24 100.1.1.0/24
 destination-port 20 30
 protocol 6 17 23
!
action accept
 policer p1
!
default-action drop
!
vpn 1
interface ge0/4
 description Policy ID: B413:A88D:76G7::4
 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 224
Refer to the exhibit.



The network team must configure branch B WAN Edge device 103 to establish dynamic full-mesh IPsec tunnels between all colors with branches over MPLS and Internet circuits. The branch ts configured with:

```
viptela-system:system
 device-model        vedge-cloud
 host-nam                    vEdge-Cloud
 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

vpn 512
interface eth0
 ip address 10.0.0.1/24
 no shutdown
```

Which configuration meets the requirement?

A)

```
vpn 0
interface ge0/0
 description "*** Internet Circuit ***"
 ip address 209.165.200.225/30
 tunnel-interface
  encapsulation ipsec
  color public-internet
  allow-service all

interface ge0/1
 description "*** MPLS ***"
 ip address 10.10.0.101/30
 tunnel-interface
  encapsulation ipsec
  color mpls
  allow-service all
```

B)

```
vpn 0
interface ge0/0
 description "*** Internet Circuit ***"
 ip address 209.165.200.225/30
 tunnel-interface
  encapsulation ipsec
  color public-internet restrict
  allow-service all

interface ge0/1
 description "*** MPLS ***"
 ip address 10.10.0.101/30
 tunnel-interface
  encapsulation ipsec
  color mpls restrict
  allow-service all
```

C)

```
vpn 0
interface ge0/0
  description "*** Internet Circuit ***"
  ip address 209.165.200.225/30
  tunnel-interface
    encapsulation ipsec
    color public-internet restrict
    allow-service all

interface ge0/1
  description "*** MPLS ***"
  ip address 10.10.0.101/30
  tunnel-interface
    encapsulation ipsec
    color mpls restrict
    allow-service all
```

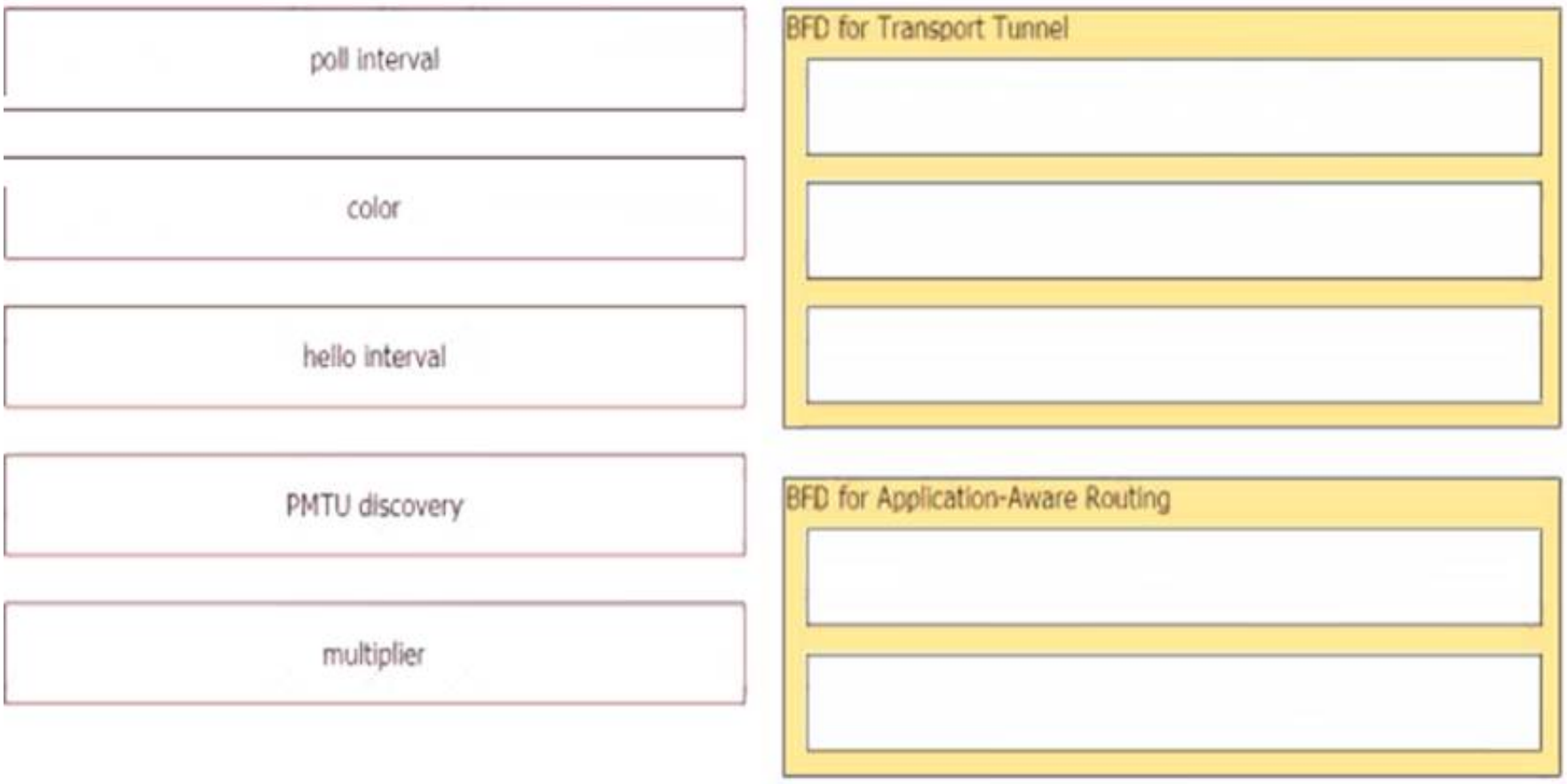
D)

```
vpn 0
interface ge0/0
  description "*** Internet Circuit ***"
  ip address 209.165.200.225/30
  tunnel-interface
    encapsulation ipsec
    color public-internet
    allow-service all

vpn 1
interface ge0/1
  description "*** MPLS ***"
  ip address 10.10.0.101/30
  tunnel-interface
    encapsulation ipsec
    color mpls
```

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

Answer: A

NEW QUESTION 229
Drag and drop the BFD parameters from the left onto the BFD configurations on the right.

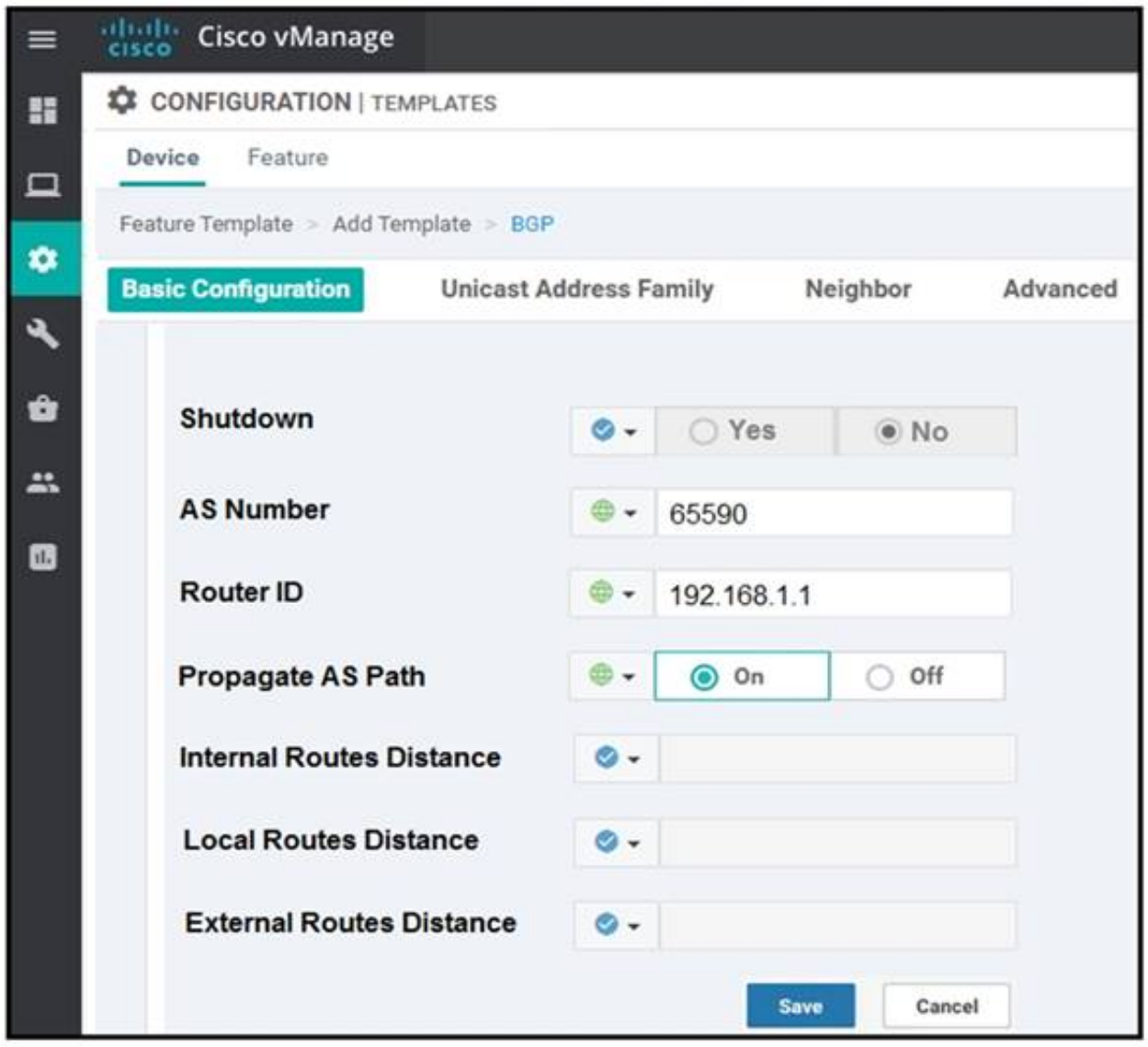


A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 230
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 231
Refer to the exhibit

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

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

B)

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

C)

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

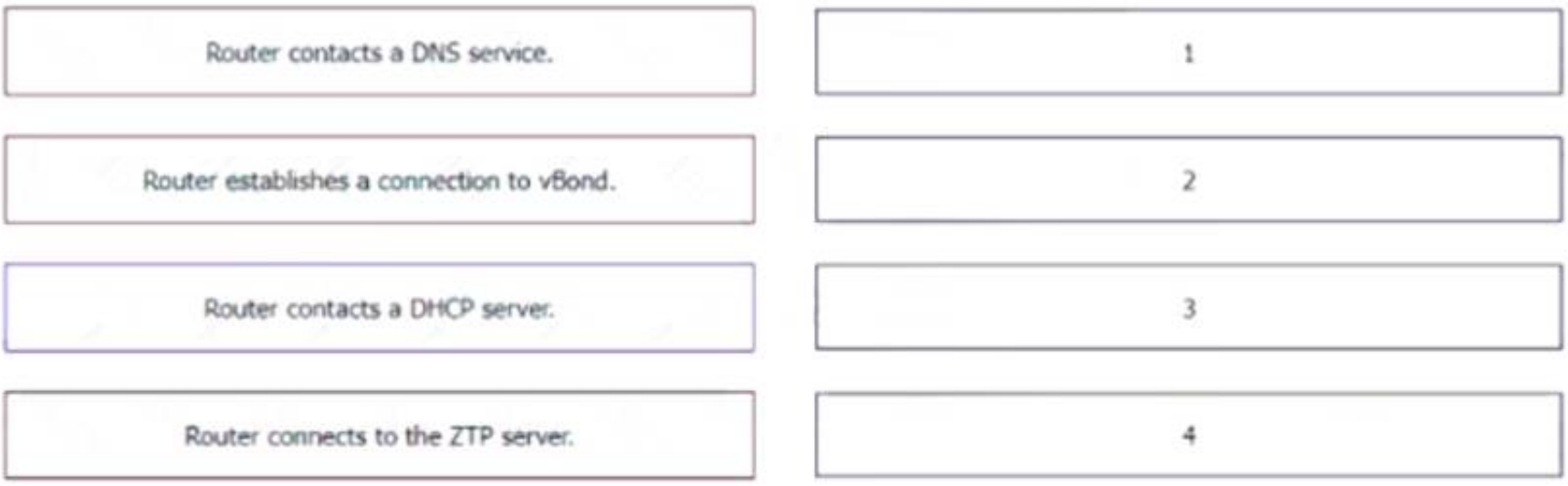
D)

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

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

Answer: D

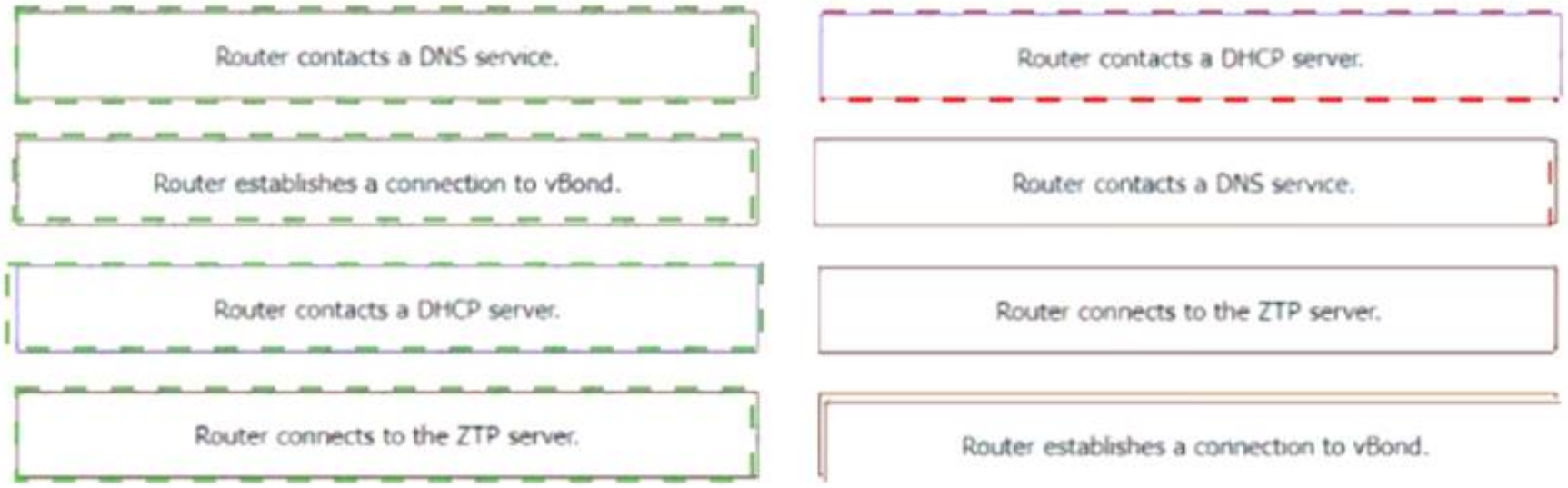
NEW QUESTION 236
Drag and drop the steps from the left into the sequence on the right for a WAN Edge router after powering on for zero touch provisioning.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 240
What is a description of vManage NMS?

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

Answer: B

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

NEW QUESTION 242
A network administrator is tasked to make sure that an OMP peer session is closed after missing three consecutive keepalive messages in 3 minutes. Additionally, route updates must be sent every minute. If a WAN Edge router becomes unavailable, the peer must use last known information to forward packets for 12 hours. Which set of configuration commands accomplishes this task?

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

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

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

omp
  timers
    advertisement-interval 60
    holdtime 60
    graceful-restart-timer 720
```

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

Answer: A

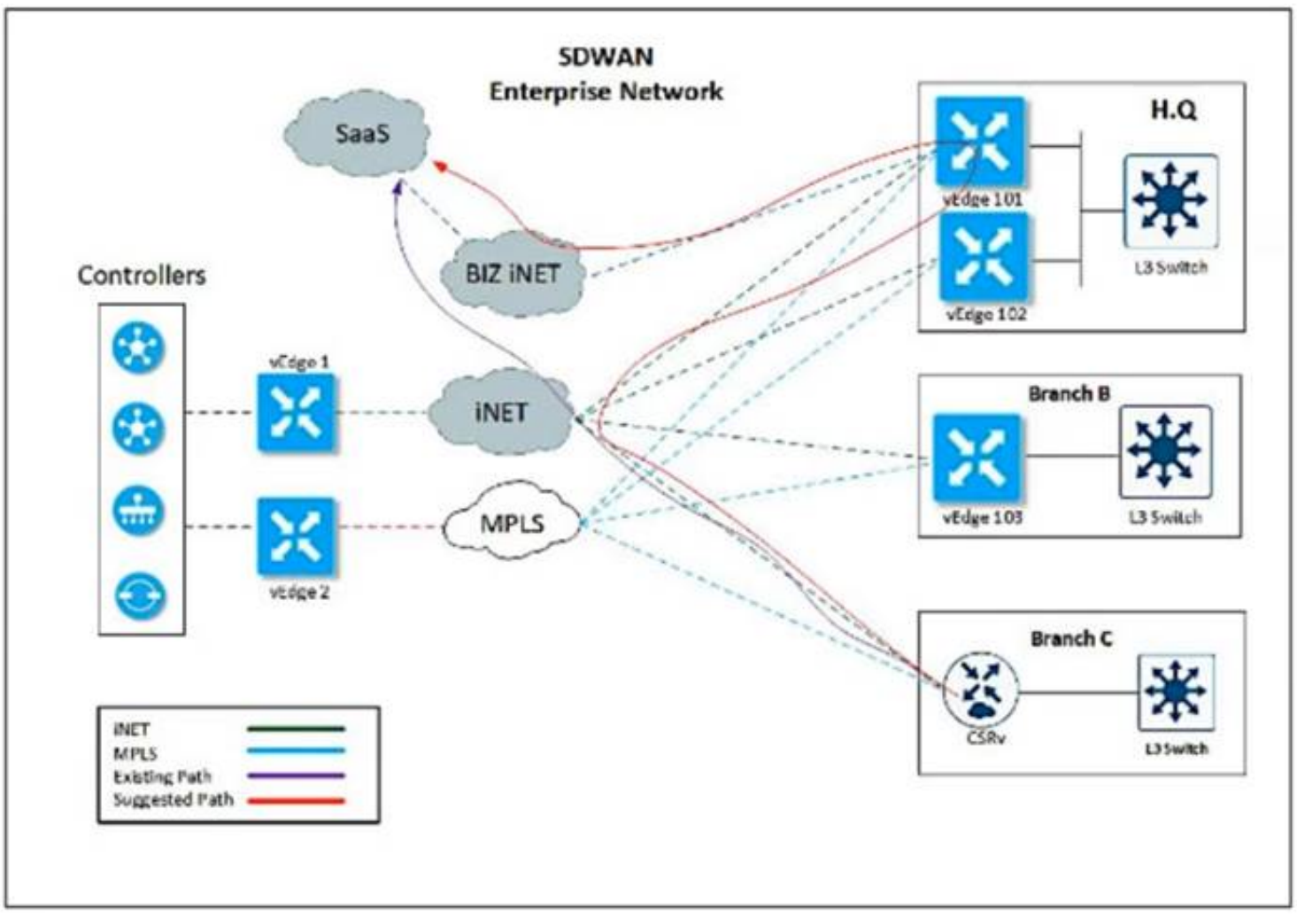
Explanation:
https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.2/Configuration/Templates/O

NEW QUESTION 244
In a customer retail network with multiple data centers, what does the network administrator use to create a regional hub topology?

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

Answer: A

NEW QUESTION 246
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 249
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 251
Which issue triggers the Cisco Umbrella resolver to toward DNS requests to the intelligent proxy? Which issue triggers the Cisco Umbrella resolver to toward DNS requests to the intelligent proxy?

A. A domain is nonexistent.
B. A domain is block-listed.
C. A domain is locally reachable.
D. A domain is grey-listed.

Answer: D

NEW QUESTION 252
Which template configures the out-of-band management VPN?
A)

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

B)

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

C)

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

D)

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

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

Answer: C

NEW QUESTION 253
How do WAN Edge devices operate when vSmart is inaccessible or fails to be reached by the WAN Edge?

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

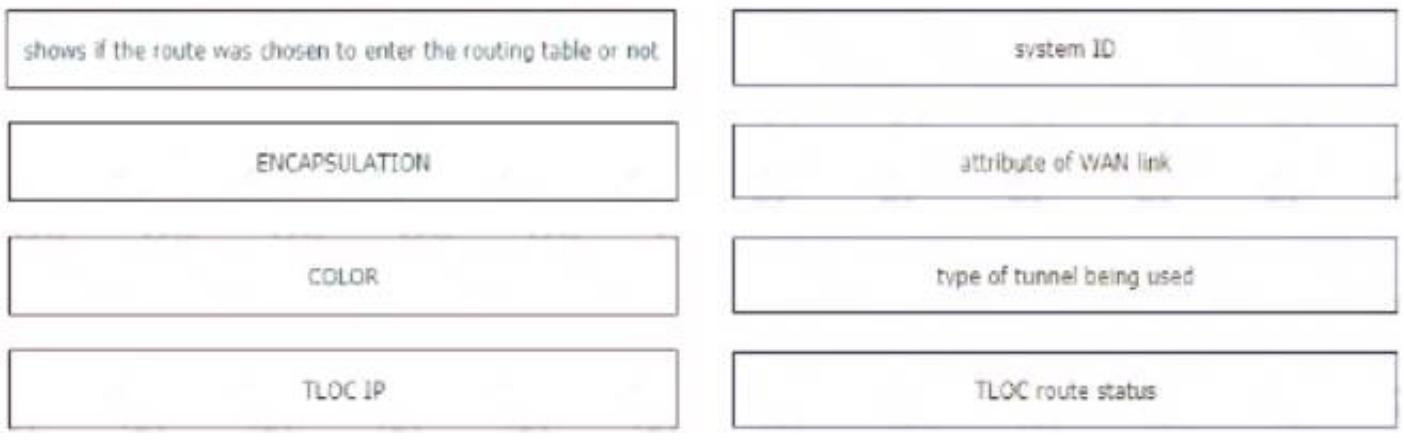
Answer: D

NEW QUESTION 256
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

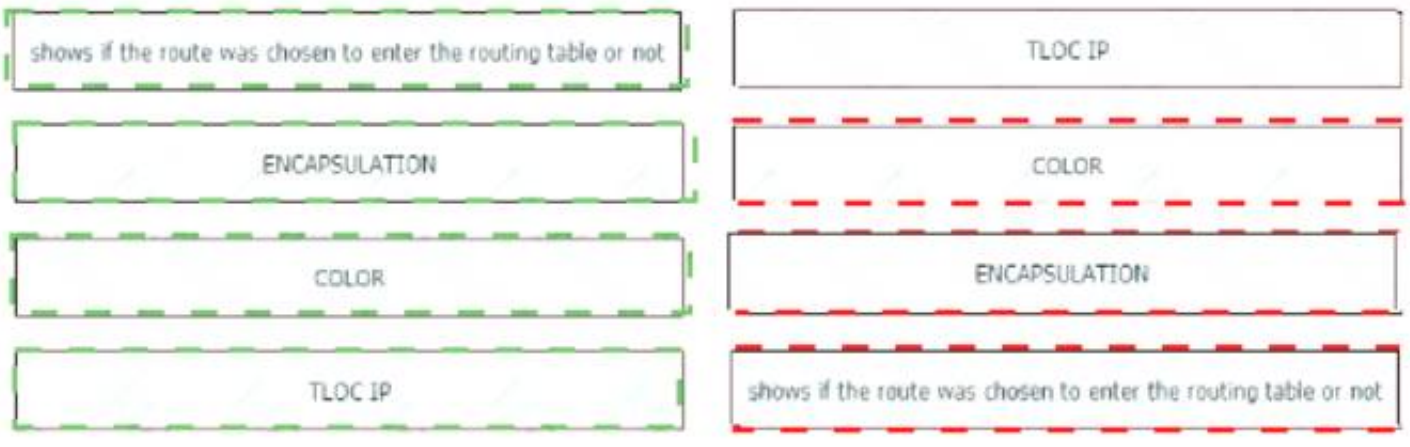
NEW QUESTION 260
Drag and drop the route verification output from show omp tlocs from the left onto the correct explanations on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 264
Which SD-WAN component detects path performance information in the organization to report the issue to the service provider at site ID:S4288T5E44F04?

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

Answer: B

NEW QUESTION 269
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 273
Which feature allows reachability to an organization’s internally hosted application for an active DNS security policy on a device?

A. local domain bypass
B. DHCP option 6
C. DNSCrypt configurator
D. data pokey with redirect

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/ios-xe-16/security-book-xe/umbrell

- Local domain bypass list is global and each VRF can enable or disable the local domain bypass list. If enabled, the DNS packet will be matched against the local domain list.

NEW QUESTION 275
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 279
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 284
Which action is performed during the onboarding process when a WAN Edge router is connected to ZTP server ztp.viptela com?

A. The router is connected to WAN Edge Cloud Center
B. The router is synced with vSmart Controller via an IPsec tunnel
C. The router receives its vBond Orchestrator information
D. The router is connected 10 vSmart Controller via a DTLSTLS tunnel

Answer: C

NEW QUESTION 286
Refer to the exhibit

PEER PRIVATE IP	PEER PRIVATE PORT	PEER PUBLIC IP	PEER PUBLIC PORT	REMOTE COLOR	STATE	LOCAL ERROR
10.0.2.73	23456	10.0.2.73	23456	default	trying	DCONFALL

Cisco SD-WAN is deployed with controllers hosted in a data center All branches have WAN Edge devices with dual connections to the data center one via Internet and the other using MPLS Three branches out of 20 have issues with their control connections on MPLS circuit The local error refers to Control Connection Failure Which action resolves the issue*?

A. Rectify any issues with the underlay routing configuration
B. Match the TLOC color on the controllers and all WAN Edge devices
C. Match certificates for the DTLS connection and Root CA must be installed first on WAN Edge devices
D. Update the system IP on vManage and then resend it to the controllers

Answer: A

NEW QUESTION 290
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
```

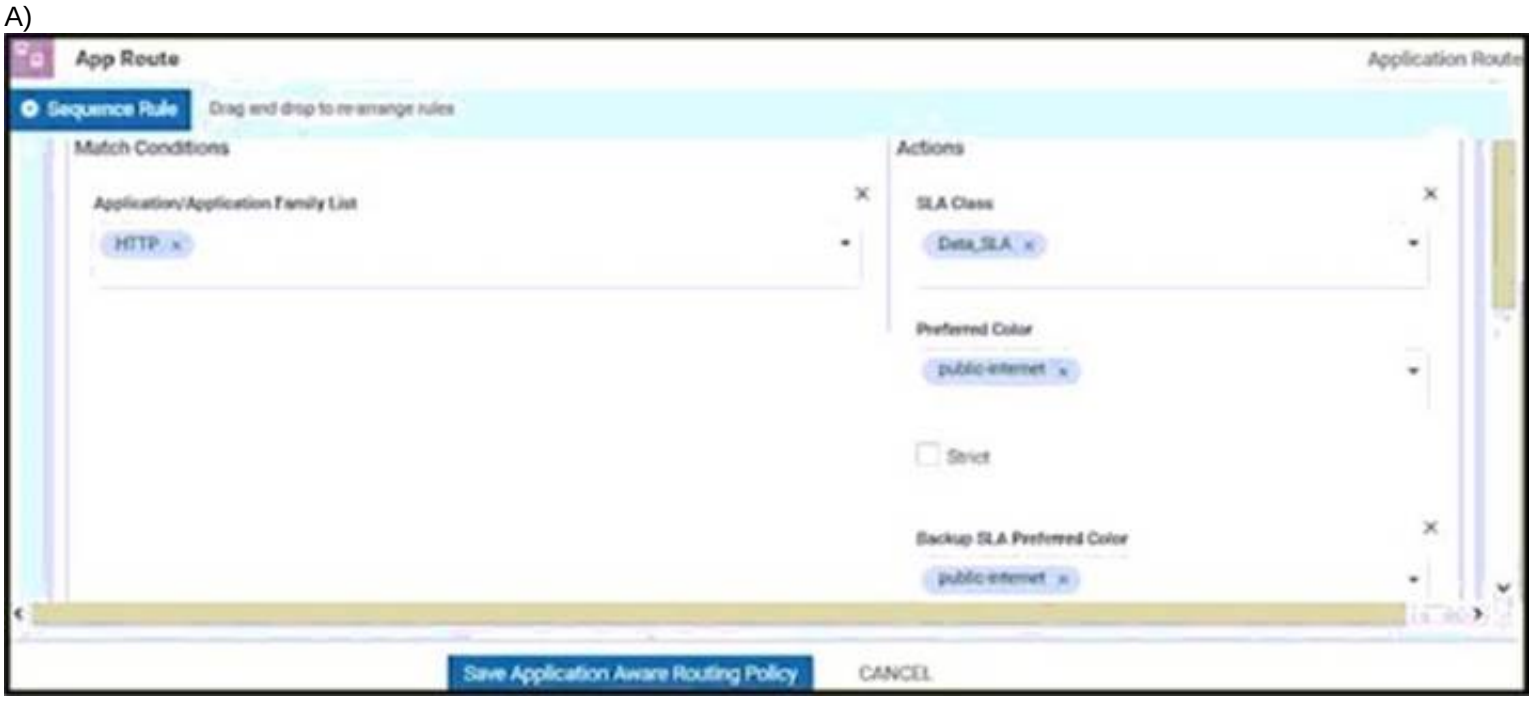
D)

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

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

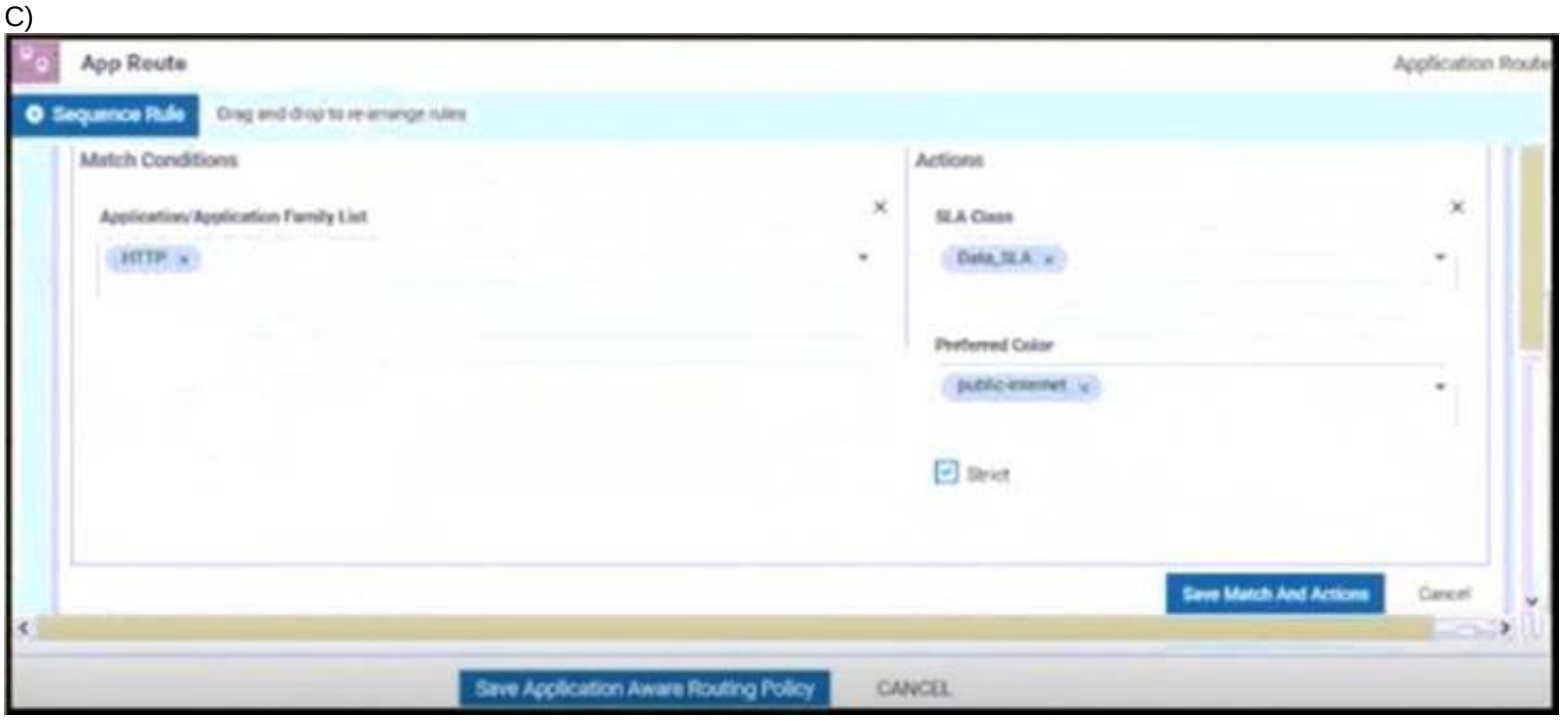
Answer: D

NEW QUESTION 291
An engineer must improve video quality by limiting HTTP traffic to the Internet without any failover. Which configuration in vManage achieves this goal?
A)

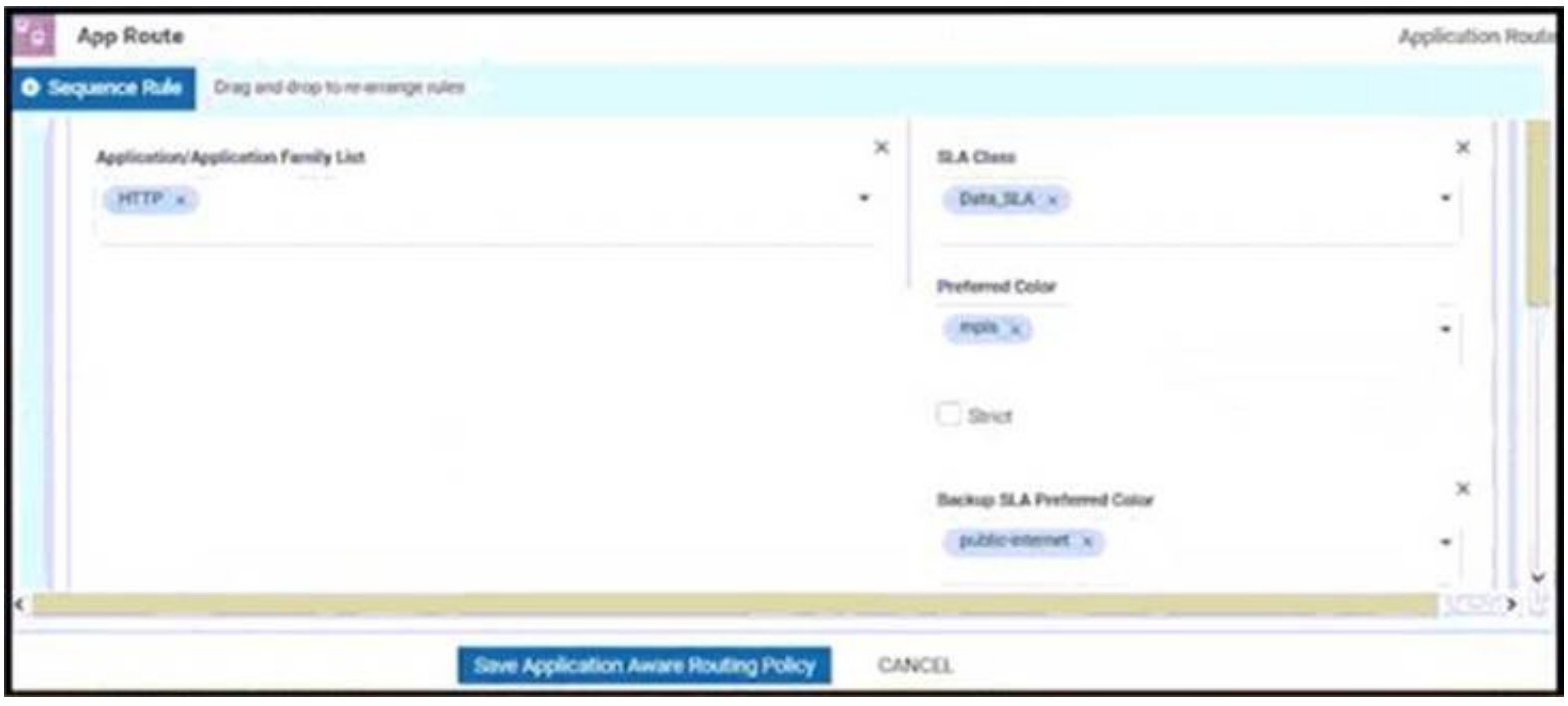


B)

C)



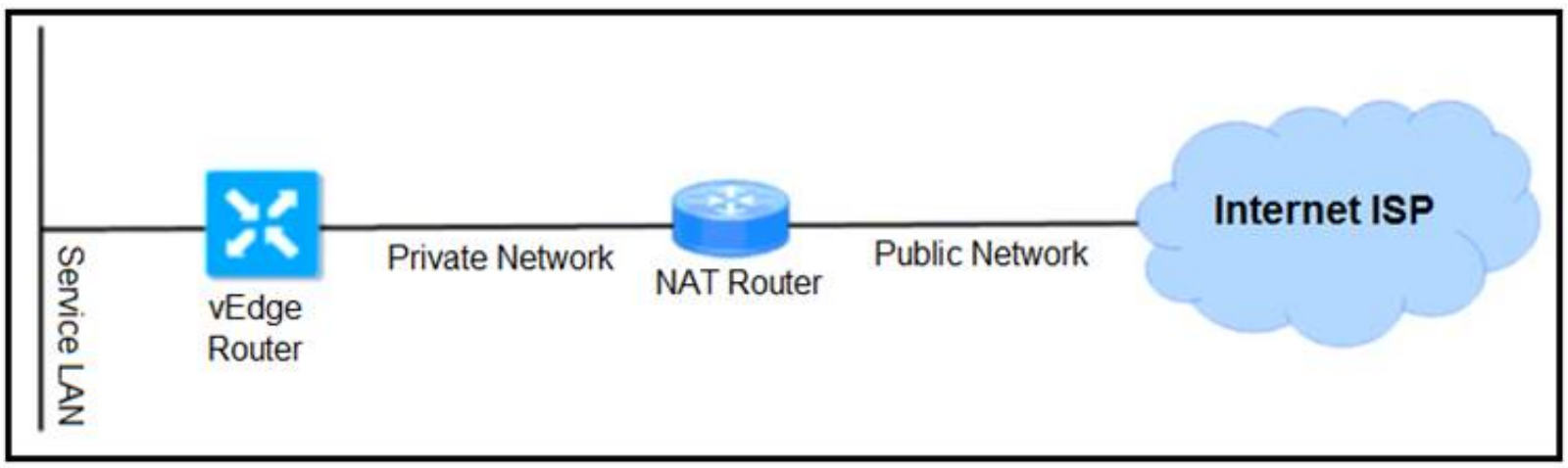
D)



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

Answer: C

NEW QUESTION 295
Refer to the exhibit



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

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

Answer: A

NEW QUESTION 299
What happens if the intelligent proxy is unreachable in the Cisco SD-WAN network?

A. The grey-listed domains are unresolved
B. The Cisco Umbrella Connector locally resolves the DNS request
C. The block-listed domains are unresolved
D. The Cisco Umbrella Connector temporarily redirects HTTPS traffic

Answer: A

NEW QUESTION 301
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 306
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 311
A network administrator is configuring a tunnel interface on a branch Cisco IOS XE router to run TLOC extensions. Which configuration will extend a TLOC over a

GRE tunnel to another router in the branch?

```
sdwan
 interface g0/0
  extended-interface
   tloc-extension-gre-from 10.1.1.1
```

```
sdwan
 interface g0/0
  gre-interface
   tloc-extension-gre-to 10.1.1.1
```

```
sdwan
 interface g0/0
  tunnel-interface
   tloc-extension-gre-to 10.1.1.1
```

```
sdwan
 interface g0/0
  tloc-interface
   tloc-extension-gre-from 10.1.1.1
```

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

Answer: C

Explanation:

Configure a tunnel interface over which to run TLOC extensions (on IOS XE routers only). TLOC extensions allow you to extend a TLOC, over a GRE tunnel, to another router in the branch.

Command Hierarchy

```
sdwan
  interface interface-name
    tunnel-interface
      tloc-extension-gre-to extended-interface-ip-address
```

NEW QUESTION 313
An engineer must configure a centralized policy on a site in which all HTTP traffic should use the Public Internet circuit if the loss on this circuit is below 10%. otherwise MPLS should be used Which configuration wizard fulfils this requirement?

A. Create Applications or Groups of Interest > Configure Traffic Rules > Apply Policies to Sites and VPNs
B. Configure VPN Membership > Apply Policies to Sites and VPNs
C. Create Applications or Groups of interest > Configure Traffic Data > Apply Policies to Sites and VPNs
D. Configure Topology > Apply Policies to Sites and VPNs

Answer: A

NEW QUESTION 315
In which device state does the WAN edge router create control connections, but data tunnels are not created?

A. valid
B. backup
C. active
D. staging

Answer: D

Explanation:

Staging – In this state, the WAN Edge device establishes secure control plane connections to the SD-WAN controllers (vBond, vManage, and vSmart) only. It is important to note that no data plane connections are established with other WAN Edge devices in the overlay network.

NEW QUESTION 318
A customer wants to use AWS for Cisco SD-WAN IaaS services by deploying virtual SD-WAN routers in a transit AWS VPC The transit VPC then connects via site-to-site IPsec tunnels to an AWS transit gateway Which transit VPC connects via site-to-site IPsec tunnels to an AWS transit gateway?

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

Answer: D

NEW QUESTION 321
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 322
Which configuration changes the packet loss priority from low to highly?
A)

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

B)

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

C)

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

D)

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

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

Answer: B

Explanation:
we change the PLP from low to high (configured by the **policer exceed remark** command)
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/qos/vEdge-20-x/qos-book/forwarding-qos.h

NEW QUESTION 323
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