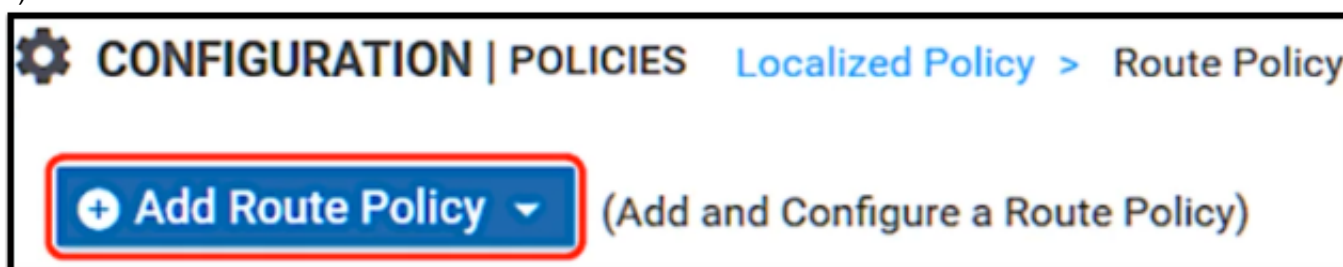# Cisco

Exam Questions 300-415
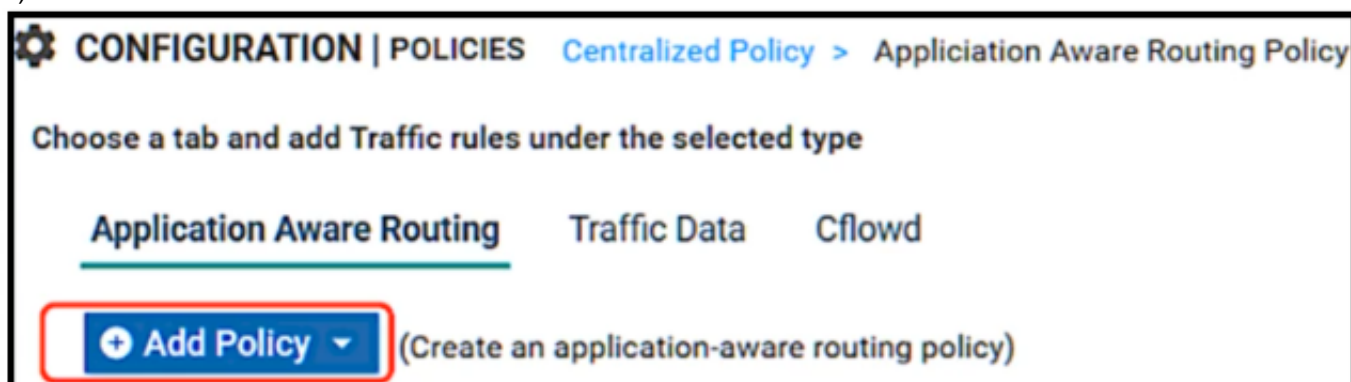
Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
An engineer must configure the SD-WAN Edge router to identify DSCP 26 traffic coming from the router's local site and then change the DSCP value to DSCP 18 before sending it over to the SD-WAN fabric. What are the two ways to create the required configuration? (Choose two).
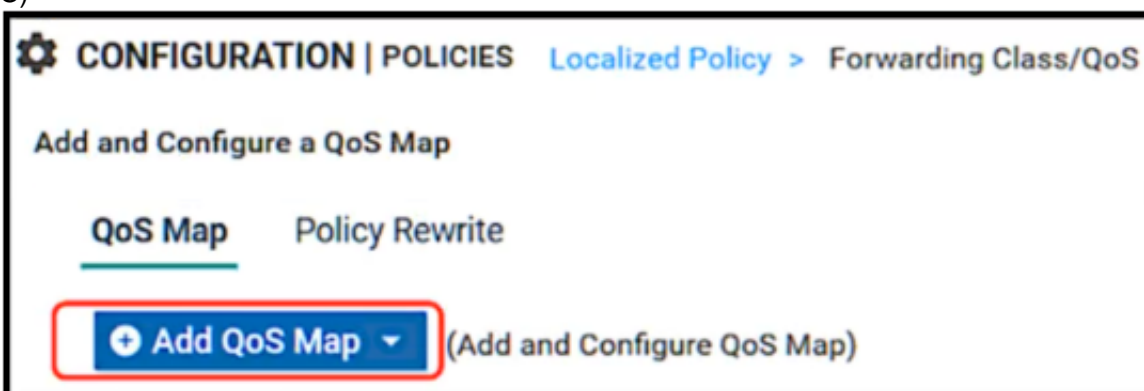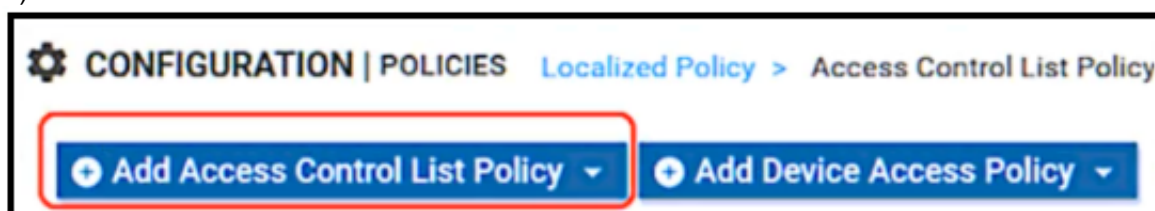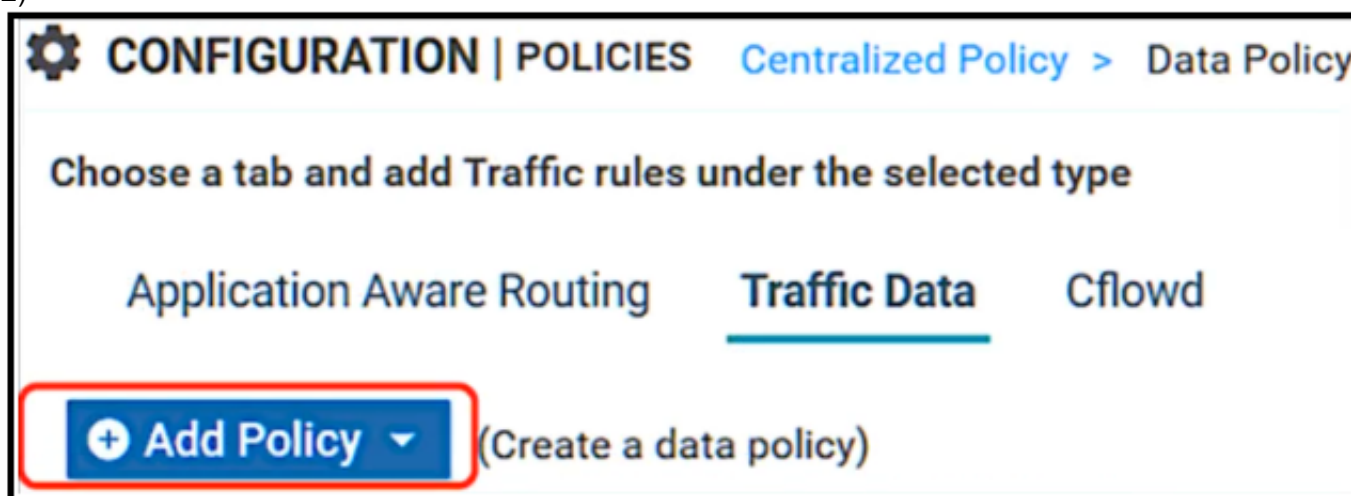
A)

CONFIGURATION | POLICIES Localized Policy > Route Policy

⊕ Add Route Policy ▾ (Add and Configure a Route Policy)

B)

CONFIGURATION | POLICIES Centralized Policy > Appliciation Aware Routing Policy

Choose a tab and add Traffic rules under the selected type

Application Aware Routing   Traffic Data   Cflowd

⊕ Add Policy ▾ (Create an application-aware routing policy)

C)

CONFIGURATION | POLICIES Localized Policy > Forwarding Class/QoS

Add and Configure a QoS Map

QoS Map   Policy Rewrite

⊕ Add QoS Map ▾ (Add and Configure QoS Map)

D)

CONFIGURATION | POLICIES Localized Policy > Access Control List Policy

⊕ Add Access Control List Policy ▾   ⊕ Add Device Access Policy ▾

E)

CONFIGURATION | POLICIES Centralized Policy > Data Policy

Choose a tab and add Traffic rules under the selected type

Application Aware Routing   **Traffic Data**   Cflowd

⊕ Add Policy ▾ (Create a data policy)

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

Answer: AC

NEW QUESTION 2
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 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 component of the Cisco SD-WAN secure extensible network provides a single pane of glass approach to network monitoring and configuration?

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

Answer: C

Explanation:

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

NEW QUESTION 5
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 6
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 7
What are the two protocols redistributed into OMP? (Choose two.)

A. OSPF
B. RIP
C. LDP
D. RSVP
E. EIGRP

Answer: AE

Explanation:

Supported Protocols

This section explains the protocols supported for unicast routing.

- OMP Routing Protocol
- BGP and OSPF Routing Protocols
- OSPFv3
- EIGRP

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/routing/ios-xe-17/routing-book-xe/m-unicas

NEW QUESTION 8
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 9
Which platform cannot provide IPS and URL filtering capabilities?

A. Cisco CSR 1000V
B. Cisco ISR 1000
C. Cisco Catalyst 8300
D. Cisco ISR 4000

Answer: B

NEW QUESTION 10
What is the minimum Red Hat Enterprise Linux operating system requirement for a Cisco SD-WAN controller deployment via KVM?

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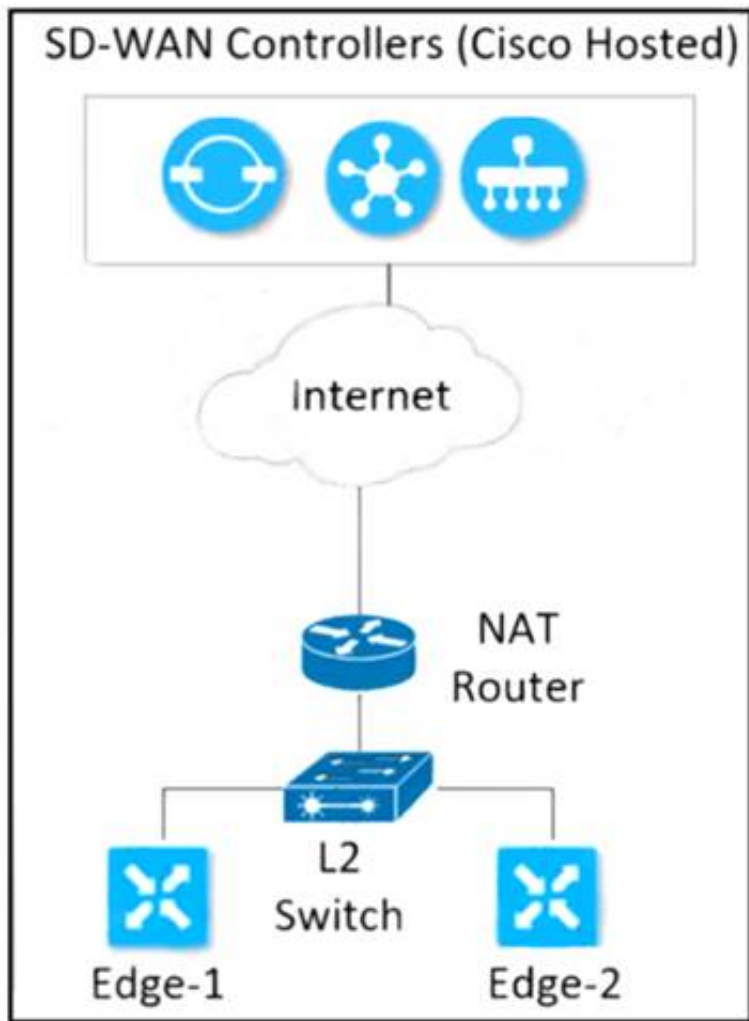D. RHEL 6.7

Answer: D

NEW QUESTION 10
A network administrator configures SNMFV3 on a Cisco WAN Edge router from CL I for monitoring purposes How many characters are supported by the snmp user username command?

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

Answer: C

NEW QUESTION 15
Refer to the exhibit

SD-WAN Controllers (Cisco Hosted)

Internet

NAT
Router

L2
Switch

Edge-1   Edge-2

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 19
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 24
A network administrator configures SNMPv3 on a Cisco WAN Edge router from CLI for monitoring purposes How many characters are supported by the snmp user <username> command?

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

Answer: C

NEW QUESTION 25
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 28
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 30
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 31
An organization requires the use of integrated preventative engines, exploit protection, and the most updated and advanced signature-based antivirus with sandboxing and threat intelligence to stop malicious attachments before they reach users and get executed. Which Cisco SD-WAN solution meets the requirements?

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

Answer: D

NEW QUESTION 36
Drag and drop the attributes from the left that make each transport location unique onto the right. Not all options are used.

IP address   target1
color   target2
encapsulation   target3
VPN
service

A. Mastered
B. Not Mastered

Answer: A

Explanation:

A TLOC, or Transport Location, is the attachment point where a WAN Edge router connects to the WAN transport network. A TLOC is uniquely identified and represented by a three-tuple, consisting of system IP address, link color, and encapsulation (Generic Routing Encapsulation [GRE] or IPsec).

NEW QUESTION 37
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 42
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 43
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 46
An engineer wants to automate the onboarding process for a WAN Edge router with vManage. Which command will accomplish this?

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

Answer: B

Explanation:

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

NEW QUESTION 47
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 50
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 52
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 57
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 61
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 64
Which combination of platforms are managed by vManage?

A. ISR4321, ASR1001, ENCS, ISRv
B. ISR4351, ASR1002HX, vEdge2000, vEdge Cloud
C. ISR4321, ASR1001, Nexus, ENCS
D. ISR435l, ASRI009, vEdge2000, CSR1000v

Answer: A

NEW QUESTION 67
Which plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay?

A. Data
B. Orchestration
C. Management
D. Control

Answer: B

Explanation:

The Cisco SD-WAN solution is comprised of separate orchestration, management, control, and data planes.

- The orchestration plane assists in the automatic onboarding of the SD-WAN routers into the SD-WAN overlay.

NEW QUESTION 68
Which attributes are configured to uniquely Identify and represent a TLOC route?

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

Answer: A

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

NEW QUESTION 72
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 75
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 79
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 84
In a Cisco SD-WAN network, which component is responsible for distributing route and policy information via the OMP?

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

Answer: B

Explanation:

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

NEW QUESTION 86
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 87
Which set of elements are verified by the controller to confirm the identity of edge devices?

A. certificates, organization name and serial number of the device
B. organization name serial number and system IP of the device
C. certificates, organization name, and vBond domain
D. certificates, system IP, and vBond domain

Answer: A

NEW QUESTION 89
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 93
An engineer must apply the configuration for certificate installation to vBond Orchestrator and vSmart Controller. Which configuration accomplishes this task?

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

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

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

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

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

Answer: A

NEW QUESTION 98
What is the maximum number of IPsec that are temporarily created and converged on a new set if IPsec Sas in the pairwise keys process during a simultaneous rekey?

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

Answer: B

NEW QUESTION 100
Refer to the exhibit.

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

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

A)

B)

C)

D)

A. Option A

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

Answer: A

NEW QUESTION 102
Which two WAN Edge devices should be deployed in a cloud? (Choose two.)

A. vEdge 5000v
B. ASR 1000v
C. CSR 1000v
D. vEdge 100wm
E. vEdge cloud

Answer: CE

Explanation:

2. Virtual platforms

- Cloud Services Router (CSR) 1000v running IOS XE SD-WAN Software

- vEdge Cloud Router running Viptela OS

NEW QUESTION 107
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 111
Which logs verify when a device was upgraded?

A. Audit
B. Email
C. ACL
D. SNMP

Answer: A

NEW QUESTION 114
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 115
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 120
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 125
Which two algorithms authenticate a user when configuring SNMPv3 monitoring on a WAN Edge router? (Choose two.)

A. AES-256
B. SHA-1
C. AES-128

D. MD5
E. SHA-2

Answer: AB

Explanation:

Configure SNMPv3

Table 7. Feature History

Feature Name	Release Information	Description
Support for SNMPv3 AES-256 bit Authentication Protocol	Cisco SD-WAN Release 20.5.1	Support introduced for AES-256 bit Authentication Protocol called SHA-256.

To configure SNMPv3, in SNMP Version, click **V3**. For SNMPv3, you can configure groups, users, and trap information. Configure groups and trap information as described above.

To configure SNMPv3 users, in the User section, click **Add New User** and enter the following parameters:

Table 8.

Parameter Name	Description
User	Enter a name of the SNMP user. It can be 1 to 32 alphanumeric characters.
Authentication Protocol	Select the authentication mechanism for the user: • SHA-1 message digest. SHA-256 message digest. Note Starting from Cisco SD-WAN Release 20.5.1, SHA-256 authentication protocol was introduced. When you choose SHA-256 as the authentication protocol, you must set the security level as authPriv. Note MD5 authentication protocol is deprecated for Cisco SD-WAN Release 20.3.2 and later releases.

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/snmp/snmp-book.html

NEW QUESTION 129
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 134
Which alarm setting is configured to monitor serious events that affect but do not shut down, the operation of a network function?

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

Answer: B

NEW QUESTION 137
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 141
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 145
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 147
A customer has 1 to 100 service VPNs and wants to restrict outbound updates for VPN1 Which control policy configuration restricts these updates?
A)

```
policy
 lists
  vpn-list VPN2-100
   vpn 2-100
  !
 !
 control-policy restrict_2-100
  sequence 10
   match route
    vpn-list  VPN2-100
   !
   action reject
  !
  default-action accept
```

B)

```
policy
 lists
  vpn-list VPN2-100
   vpn 2-100
  !
 !
 control-policy restrict_2-100
  sequence 10
   match route
    vpn-list  VPN2-100
   !
   action reject
  !
  default-action accept
```

C)

```
policy
 lists
  vpn-list VPN1
   vpn 1
  !
 !
 control-policy restrict_1
  sequence 10
   match route
    vpn-list  VPN1
   !
   action reject
  !
  default-action accept
```

D)

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

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

Answer: C

NEW QUESTION 149
Which encryption algorithm is used for encrypting SD-WAN data plane traffic?

A. Triple DES
B. IPsec
C. AES-128
D. AES-256 GCM

Answer: D

NEW QUESTION 151
An administrator is configuring the severity level on the vManage NMS for events that indicate that an action must be taken immediately. Which severity level must be configured?

A. warning
B. error
C. critical
D. alert

Answer: D

Explanation:

• Alert— Action must be taken immediately (corresponds to syslog severity 1).

NEW QUESTION 155
Refer to the exhibit.

```
vEdge-Cloud#
vEdge-Cloud#
vEdge-Cloud# vshell
vEdge-Cloud:~$ cd /var/log/
vEdge-Cloud:/var/log$
vEdge-Cloud:/var/log$ ls -l
total 28992
-rw-r--r-- 1 root    root      1441700 Nov 22 15:13 auth.log
-rw-r--r-- 1 basic   adm             0 Aug  7 15:29 cloud-init.log
drwxr-xr-x 2 root    root         4096 Nov 22 14:49 confd
-rw-r--r-- 1 root    root      1896486 Nov 22 14:57 kern.log
-rw-r--r-- 1 root    root       292292 Aug  9 22:31 lastlog
-rw-r--r-- 1 root    root      6197843 Nov 22 15:14 messages
-rw-r--r-- 1 root    root     10512141 Aug 30 21:00 messages.1
drwxr-xr-x 2 root    root         4096 Nov 22 14:48 pdb
drwxr-xr-x 2 quagga  quagga       4096 Aug  7 15:29 quagga
-rw-r--r-- 1 root    root          437 Nov 22 14:48 sw_script_active.log
-rw-r--r-- 1 root    root          382 Nov 22 14:48 sw_script_previous.log
-rw-r--r-- 1 root    root         2004 Nov 22 14:49 sw_script_synccdb.log
-rw------- 1 root    root        64064 Nov 22 15:07 tallylog
drwxr-xr-x 2 root    root           60 Nov 22 14:48 tmplog
-rw-r--r-- 1 root    root      6841506 Nov 22 15:14 vconfd
-rw-r--r-- 1 root    root       184602 Aug  7 15:29 vdebug
-rw-r--r-- 1 root    root      2479511 Nov 22 15:14 vsyslog
-rwxr-xr-x 1 root    utmp        49536 Nov 22 15:07 wtmp
vEdge-Cloud:/var/log$
vEdge-Cloud:/var/log$
```

Which configuration stops Netconf CLI logging on WAN Edge devices during migration?

⚪ logs
   audit-disable
   netconf-disable

⚪ logs
   netconf-disable

⚪ logging
   disk netconf-disable

⚪ logging
   disk
   audit-disable
   netconf-disable

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

Answer: B

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

Syslog messages related to AAA authentication and Netconf CLI access and usage are placed in the auth.log and messages files. Each time Cisco vManage logs in to a Cisco vEdge device to retrieve statistics and status information and to push files to the router, the router generates AAA and Netconf log messages. So, over time, these messages can fill the log files. To prevent these messages from filling the log files, you can disable the logging of AAA and Netconf syslog messages:

Device(config)# **system aaa logs**Viptela(config-logs)# **audit-disable**Viptela(config-logs)# **netconf-disable**

NEW QUESTION 159
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 161
Which value is verified in the certificates to confirm the identity of the physical WAN Edge device?

A. Serial Number
B. OTP
C. System-IP
D. Chassis-ID

Answer: A

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

NEW QUESTION 165
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 168

An enterprise has several sites with multiple VPNs that are isolated from each other A new requirement came where users in VPN 73 must be able to talk to users in VPN 50 Which configuration meets this requirement?

```
⊙ policy
    control-policy Route_Leaking
      sequence 1
       match route
        vpn-list VPN_73
        prefix-list _AnyIpv4PrefixList
        action accept
        export-to vpn-list VPN_50
      sequence 11
       match route
        vpn-list VPN_50
        prefix-list _AnyIpv4PrefixList
        action accept
        export-to vpn-list VPN_73
      default-action accept
```

```
○ policy
    control-policy Route_Leaking
      sequence 1
       match route
        VPN_73
        prefix-list _AnyIpv4PrefixList
        export-to VPN_50
      sequence 11
       match route
        VPN_50
        prefix-list _AnyIpv4PrefixList
        export-to VPN_73
      default-action accept
```

```
⊙ policy
    control-policy Route_Leaking
      sequence 1
       match route
        VPN_ALL
        prefix-list _AnyIpv4PrefixList
        action accept
        export-to VPN_ALL
```

```
○ policy
    control-policy Route_Leaking
      sequence 1
       match route
        VPN_50 VPN_73
        prefix-list _AnyIpv4PrefixList
        action accept
        export-to VPN_73 VPN_50
```

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

Answer: A

NEW QUESTION 170

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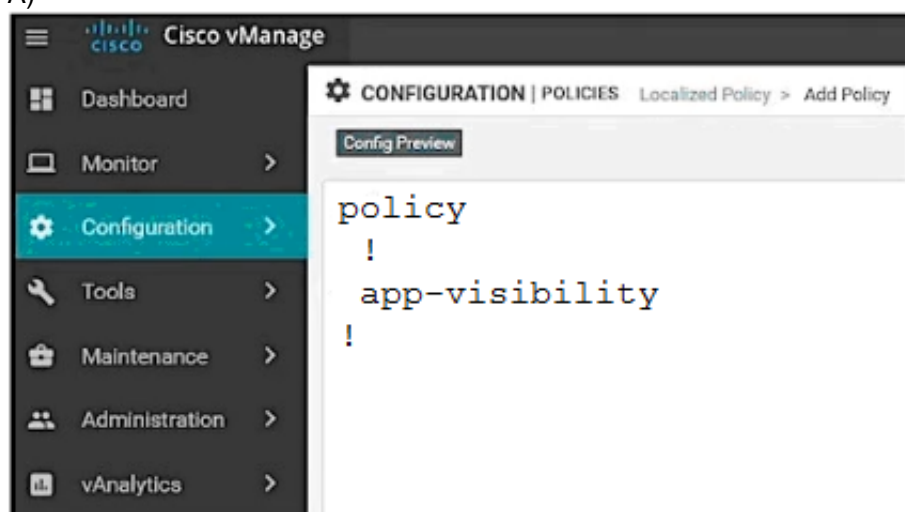
A. Option A
B. Option B
C. Option C
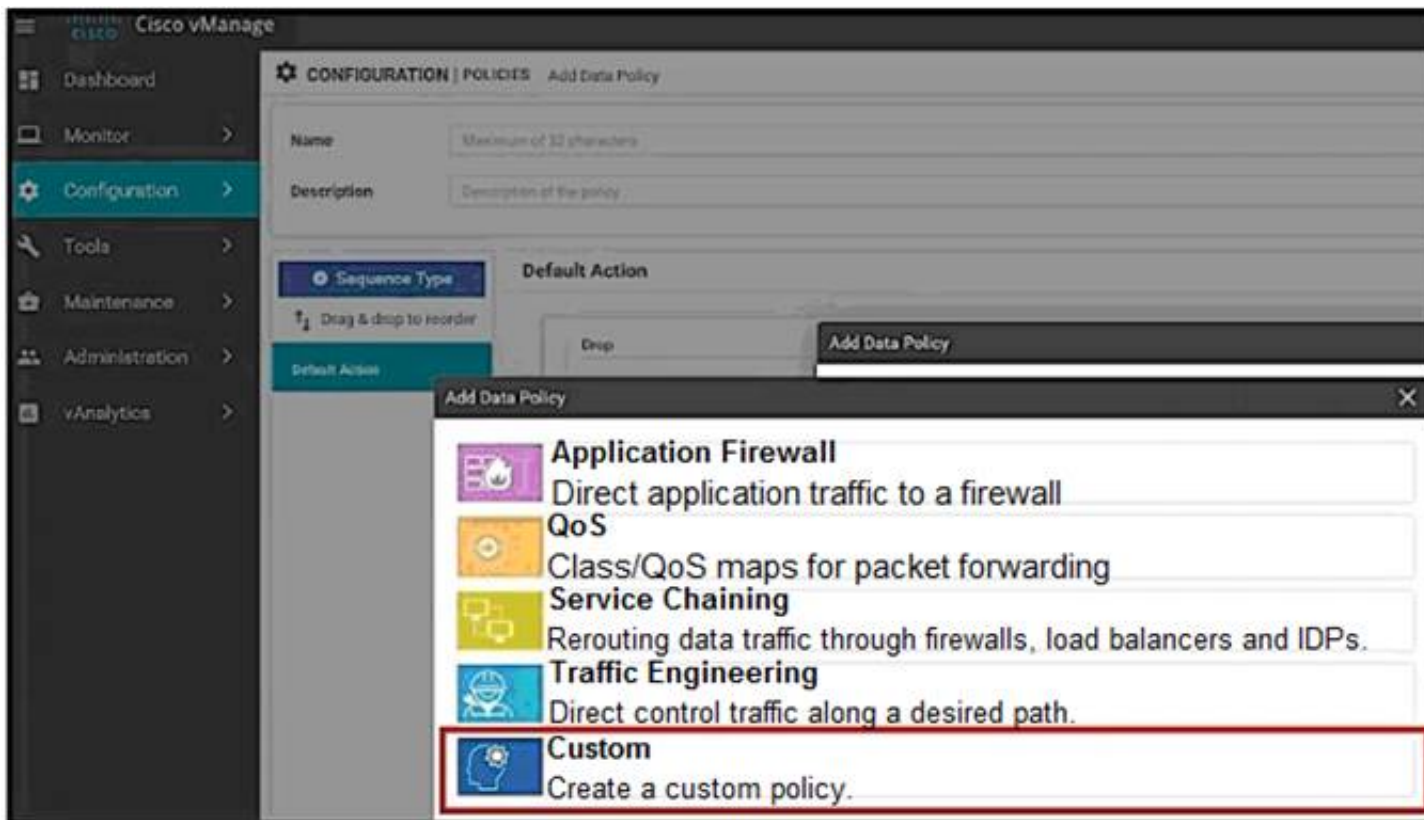D. Option D

Answer: C

NEW QUESTION 174
An organization wants to discover, monitor, and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?
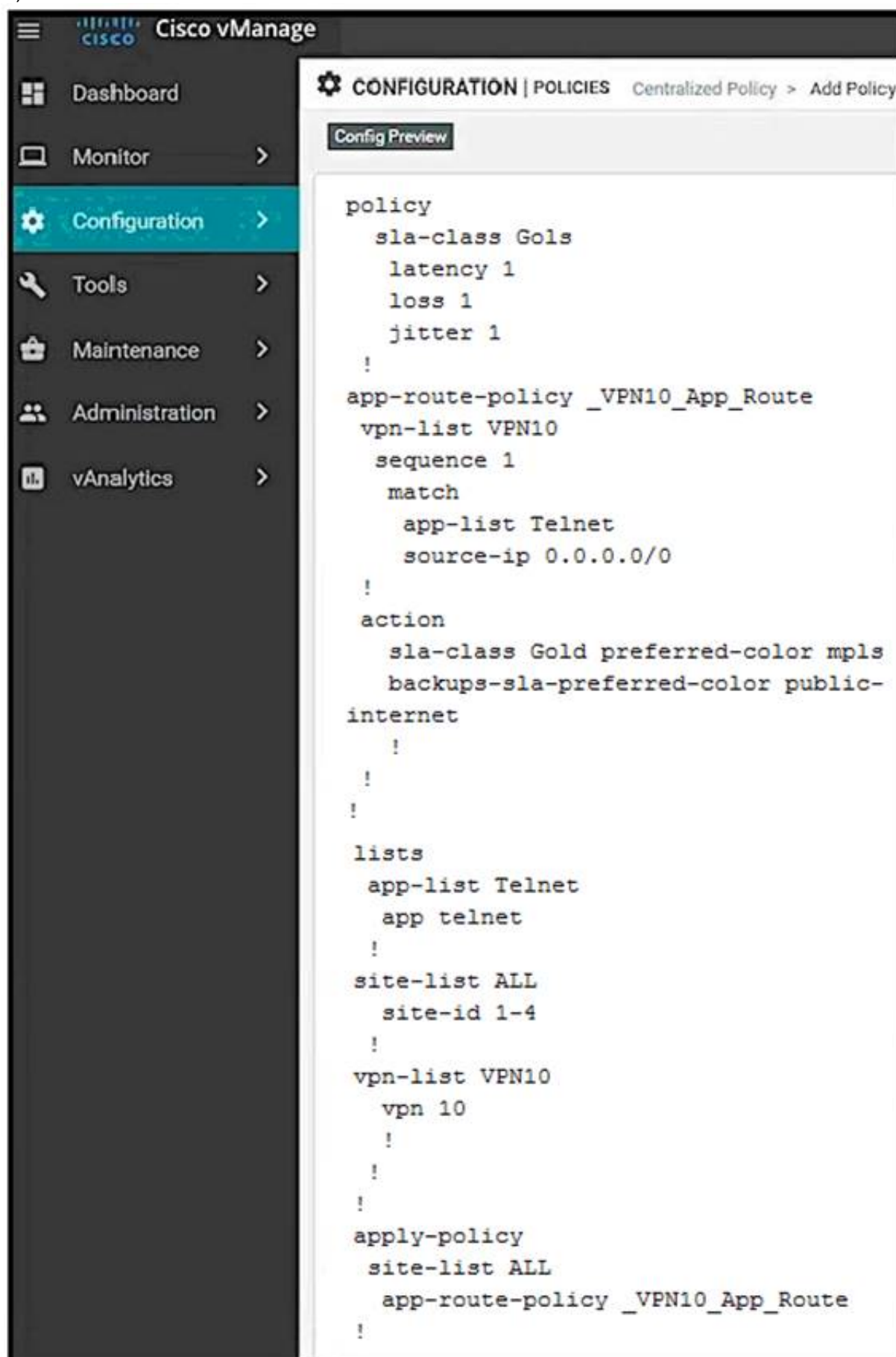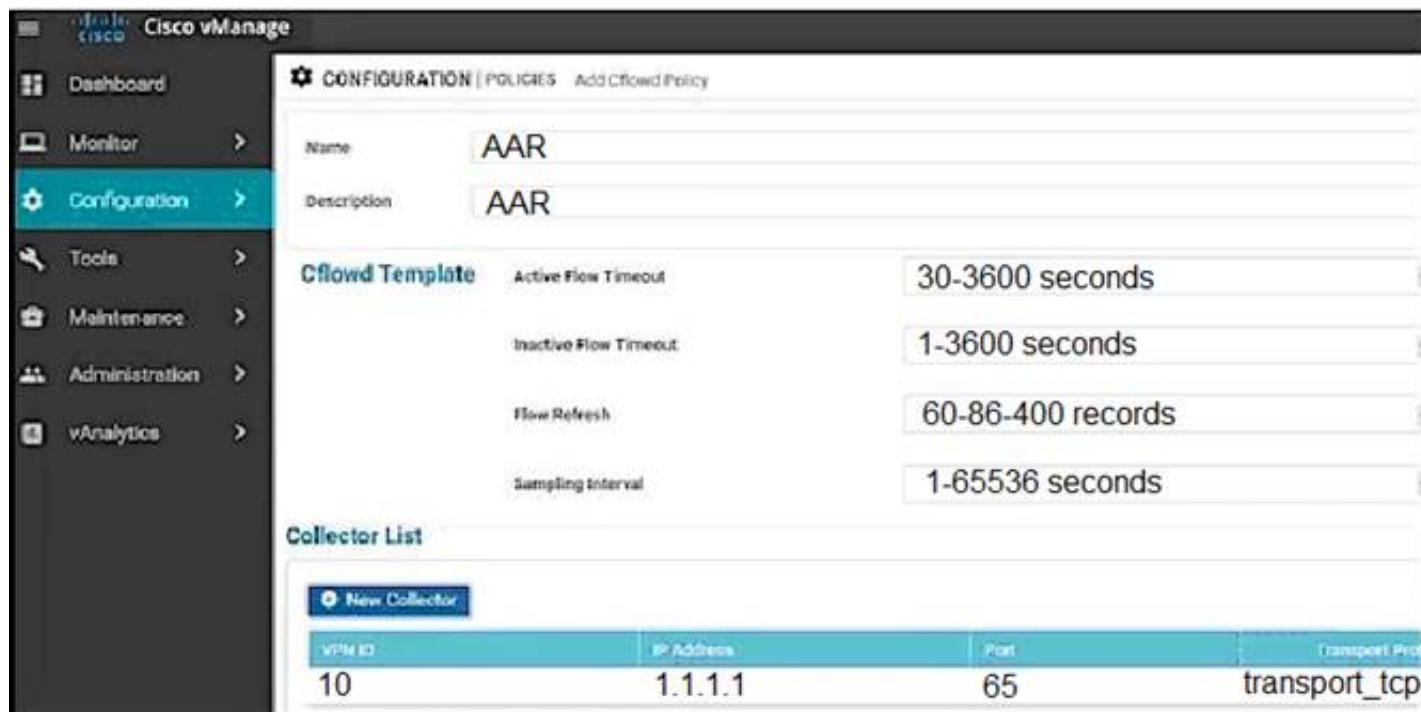A)

B)

Cisco vManage

- Dashboard
- Monitor >
- Configuration >
- Tools >
- Maintenance >
- Administration >
- vAnalytics >

CONFIGURATION | POLICIES   Add Data Policy

Name   Maximum of 32 characters

Description   Description of the policy

⊙ Sequence Type   **Default Action**

↑↓ Drag & drop to reorder

Default Action   Drop   Add Data Policy

Add Data Policy   ✕

🖥 **Application Firewall**
Direct application traffic to a firewall

⊙ **QoS**
Class/QoS maps for packet forwarding

Service Chaining
Rerouting data traffic through firewalls, load balancers and IDPs.

Traffic Engineering
Direct control traffic along a desired path.

Custom
Create a custom policy.

C)

Cisco vManage

- Dashboard
- Monitor >
- Configuration >
- Tools >
- Maintenance >
- Administration >
- vAnalytics >

⚙ CONFIGURATION | POLICIES   Centralized Policy > Add Policy

Config Preview

```
policy
  sla-class Gols
    latency 1
    loss 1
    jitter 1
  !
app-route-policy _VPN10_App_Route
 vpn-list VPN10
   sequence 1
     match
       app-list Telnet
       source-ip 0.0.0.0/0
   !
   action
      sla-class Gold preferred-color mpls
      backups-sla-preferred-color public-
internet
     !
   !
 !

 lists
  app-list Telnet
    app telnet
  !
site-list ALL
   site-id 1-4
  !
vpn-list VPN10
   vpn 10
    !
   !
 !
 apply-policy
  site-list ALL
     app-route-policy _VPN10_App_Route
  !
```

D)

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

Answer: D

NEW QUESTION 178
Which type of connection is created between a host VNet and a transit VNet when configuring Cloud OnRamp for IaaS?

A. Azure private endpoint
B. GRE tunnel
C. IPsec tunnel
D. Azure peer link

Answer: C

NEW QUESTION 183
Refer to the exhibit

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 185
An administrator must configure an ACL for traffic coming in from the service-side VPN on a specific WAN device with circuit ID 391897770. Which policy must be used to configure this ACL?

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

Answer: A

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

NEW QUESTION 188
An engineer wants to track tunnel characteristics within an SLA-based policy for convergence. Which policy configuration will achieve this goal?

A. App-route policy
B. VPN membership policy
C. Control policy
D. Data policy

Answer: A

Explanation:

An application-aware routing policy matches applications with an SLA, that is, with the data plane tunnel performance characteristics that are necessary to transmit the applications' data traffic. The primary purpose of application-aware routing policy is to optimize the path for data traffic being transmitted by Cisco SD-WAN devices.

NEW QUESTION 191
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 195
Which component of the Cisco SD-WAN control plane architecture facilitates the storage of certificates and configurations for network components?

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

Answer: D

NEW QUESTION 196
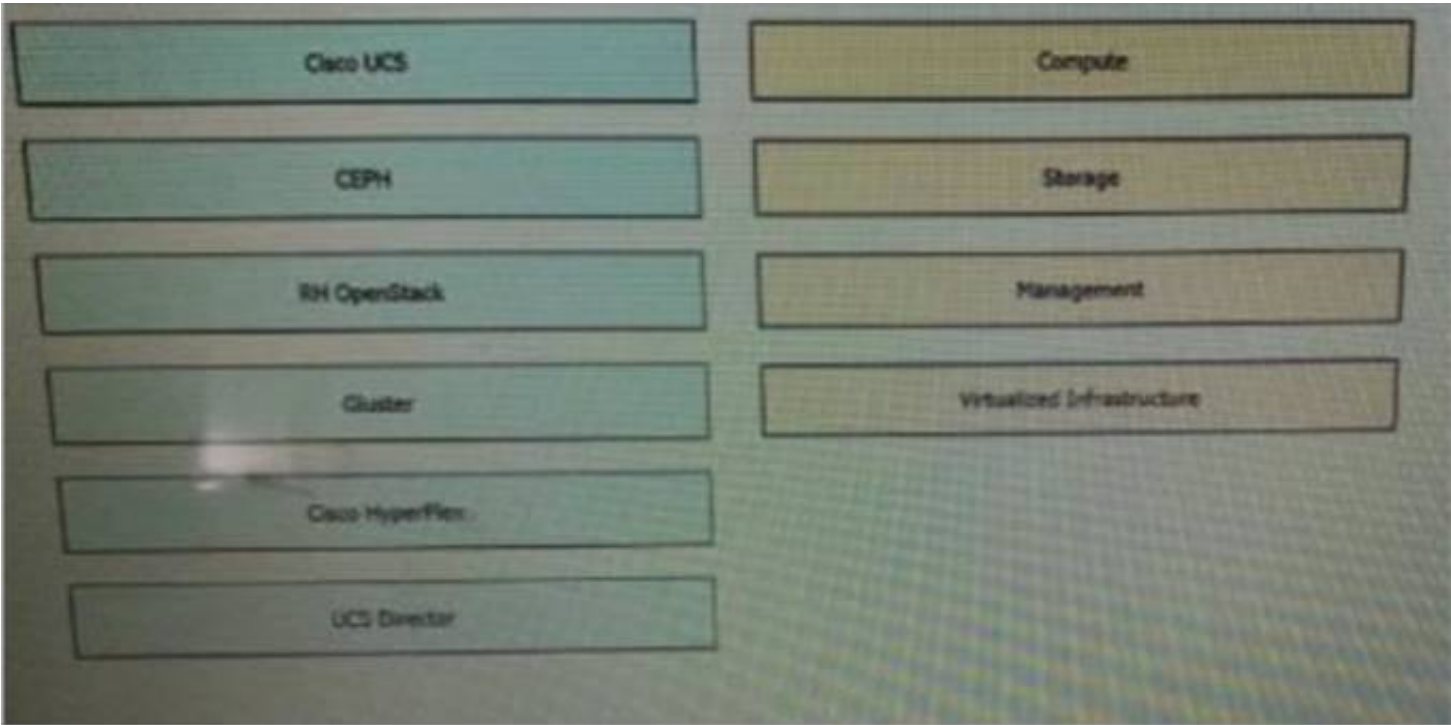Which queue must an engineer configure for control and BFD traffic for convergence on a WAN Edge router?

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

Answer: C

NEW QUESTION 201
Drag and drop the components from the left onto the corresponding Cisco NFV infrastructure Building Blocks on the right. Not all options are used.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Cisco NFV Infrastructure Building Blocks

- **Compute:** Cisco Unified Computing System™ (Cisco UCS®) for a carrier class and reliable compute infrastructure.

- **Storage:** Cisco UCS hardware and CEPH provide reliable storage. The user has the options to introduce additional storage as capacity needs grow.

- **Networking:** Cisco Nexus® 9000 series hardware provides high throughput, low latency, and rich feature sets.

- **Virtualized Infrastructure:** Fully integrated Red Hat Enterprise Linux and Red Hat OpenStack Platform runs on top of Cisco Unified Computing System™ (Cisco UCS®). It is open source yet hardened and mature.

- **Management:** Cisco UCS Director functions as a unified management tool across multiple virtual environments. SDN controller is optional.

NEW QUESTION 203
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 205
What is a benefit of using REST APIs?

A. predefined automation and orchestration platform for event management and logging
B. user-defined automation and integration into other orchestration systems or tools
C. vAnalytics to simplify operational services integration and real-time event monitoring
D. predefined SD-WAN controller with other platform integration for event management and logging
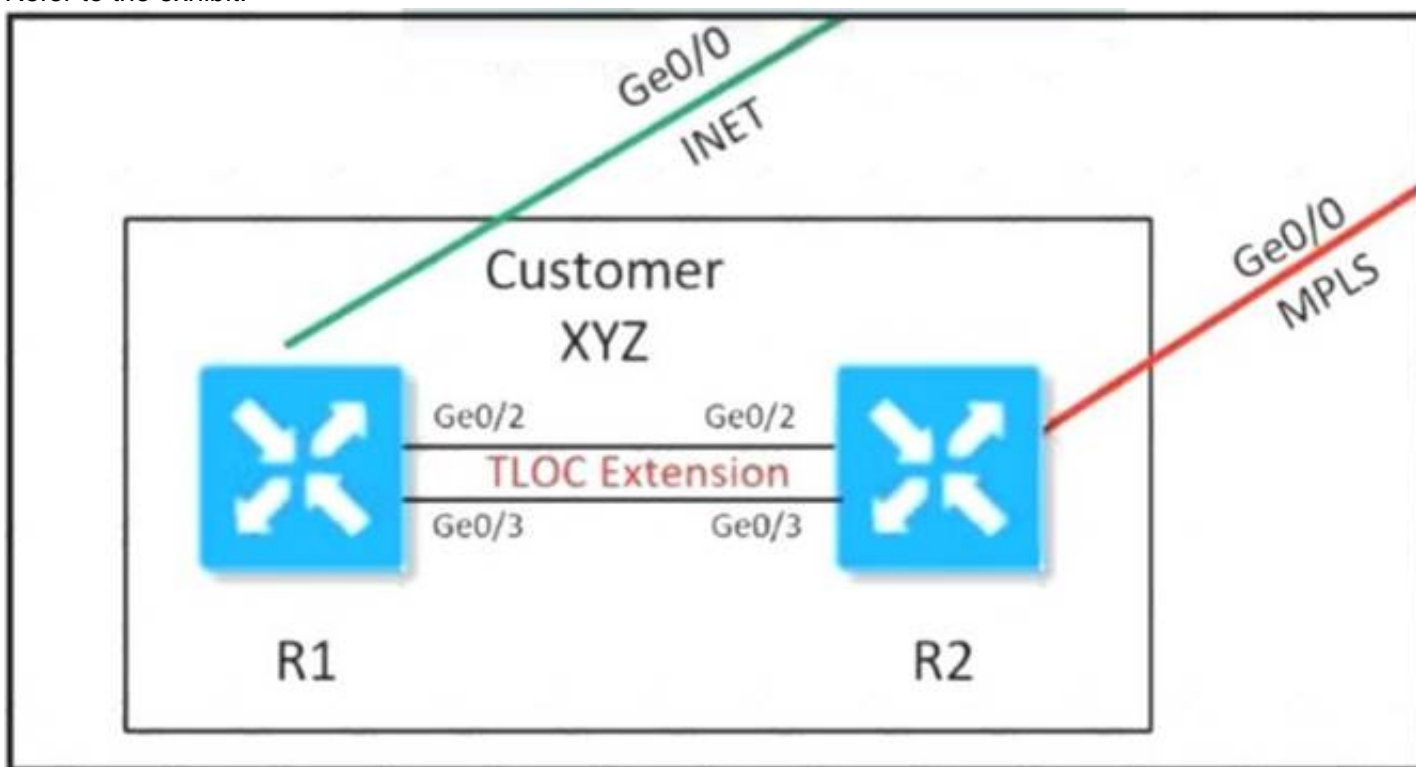
Answer: B

NEW QUESTION 206
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 211
Refer to the exhibit.

Customer XYZ cannot provision dual connectivity on both of its routers due to budget constraints but wants to use both R1 and R2 interlaces for users behind them for load balancing toward the hub site. Which configuration achieves this objective?

```
A.    R1
      interface ge0/2
       ip address 43.43.43.2/30
       tloc-extension ge0/0

      interface ge0/3
       ip address 34.34.34.1/30
       tunnel-interface
        color mpls

      R2
      interface ge0/2
       ip address 43.43.43.1/30
       tunnel-interface
        color public-internet

      interface ge0/3
       ip address 34.34.34.2/30
       tloc-extension ge0/0
```

B.
```
R1
interface ge0/2
  ip address 43.43.43.2/30
  tloc-extension ge0/0

interface ge0/3
  ip address 34.34.34.2/30
  tloc-extension ge0/0

R2
interface ge0/2
    ip address 43.43.43.1/30
  tunnel-interface
    color public-internet

interface ge0/3
  ip address 34.34.34.1/30
```

C.
```
R1
interface ge0/2
  ip address 43.43.43.2/30
  tloc-extension ge0/0

interface ge0/3
    ip address 34.34.34.2/30
  tloc-extension ge0/0

R2
interface ge0/2
  ip address 43.43.43.1/30

interface ge0/3
  ip address 34.34.34.1/30
```

D.
```
R1
interface ge0/2
    ip address 43.43.43.2/30
  tloc-extension ge0/0

interface ge0/3
  ip address 34.34.34.1/30
  tunnel-interface
    color mpls

R2
interface ge0/2
  ip address 43.43.43.1/30
  tunnel-interface
    color public-internet

interface ge0/3
  ip address 34.34.34.2/30
  tloc-extension ge0/2
```

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

Answer: A

NEW QUESTION 212
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 215
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 219
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 222
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 225
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 229
An engineer builds a three-node vManage cluster and then realizes that multiple nodes are unnecessary for the size of the company. How should the engineer revert the setup to a single vManage?

A. Remove two rode from the three-node vManage duster
B. Use the cluster conversion utility lo convert to standalone vManage
C. Restore vManage from the backup VM snapshot
D. Leave the duller as & and point to one vManage

Answer: B

NEW QUESTION 233
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 235
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

The following figure illustrates Cisco vEdge Cloud router solution elements.

NEW QUESTION 239
What are two attributes of vRoute? (Choose two)

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

Answer: AB

NEW QUESTION 244
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 246
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 248
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 249
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 251
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 vMange
B. control policy on vSmart
C. data policy on vSmart
D. app route policy on vSmart

Answer: A

NEW QUESTION 254
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 257
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 258
An administrator needs to configure SD-WAN to divert traffic from the company's private network to an ISP network. What action should be taken to accomplish this goal?

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

Answer: B

Explanation:

Data policy influences the flow of data traffic traversing the network

NEW QUESTION 259
Which component of the Cisco SD-WAN architecture oversees the control plane of overlay network to establish, adjust, and maintain the connections between the WAN Edge devices that form the Cisco SD-WAN fabric?

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

Answer: C

Explanation:

Cisco vSmart Controller

The Cisco vSmart Controller oversees the control plane of the Cisco SD-WAN overlay network, establishing, adjusting, and maintaining the connections that form the Cisco SD-WAN fabric.
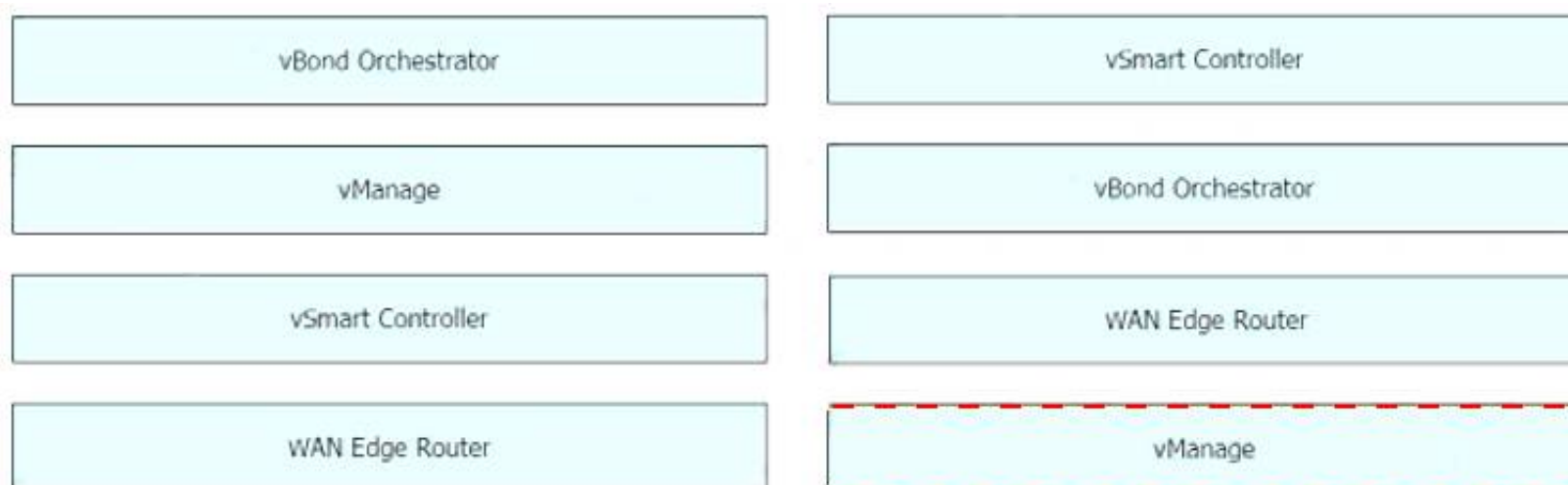
NEW QUESTION 261
Drag and drop the Cisco SD-WAN components from the left onto their functions on the right.

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

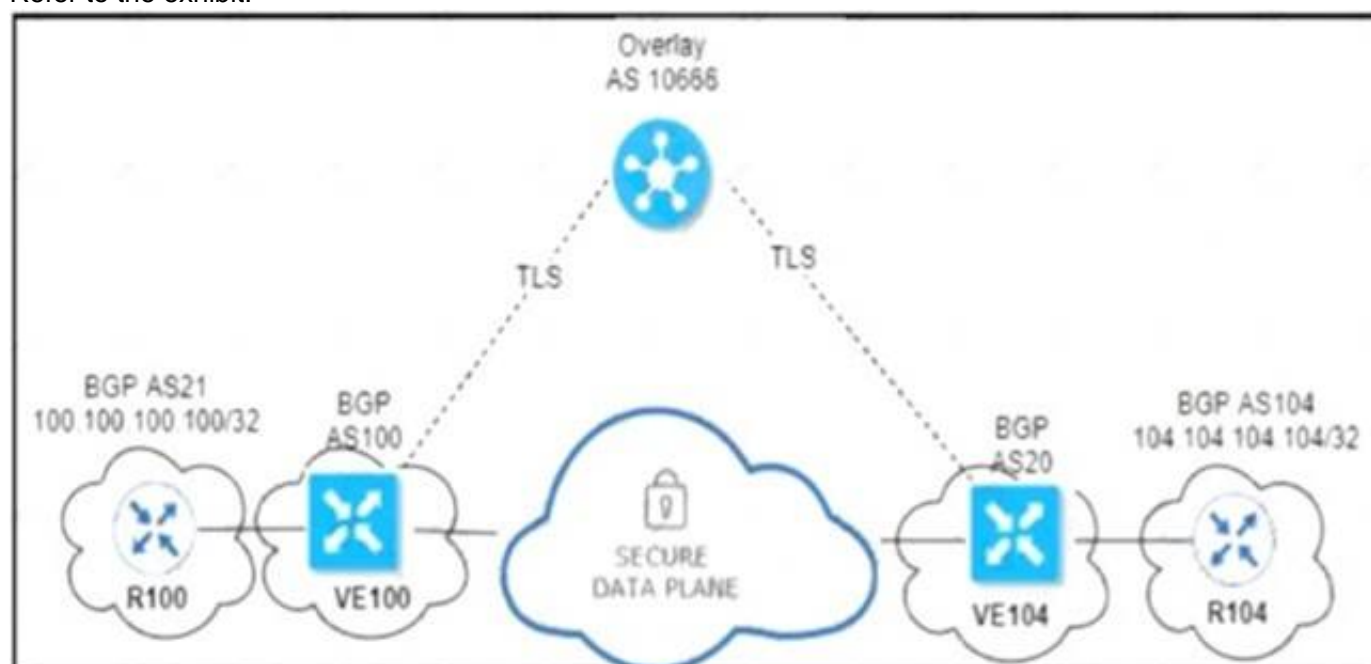|	
vBond Orchestrator	vSmart Controller
vManage	vBond Orchestrator
vSmart Controller	WAN Edge Router
WAN Edge Router	vManage

NEW QUESTION 266
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 270
Refer to the exhibit.

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

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

Answer: A

NEW QUESTION 274
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 276
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 279
An engineer must improve video quality by limiting HTTP traffic to the Internet without any failover. Which configuration in vManage achieves this goal?
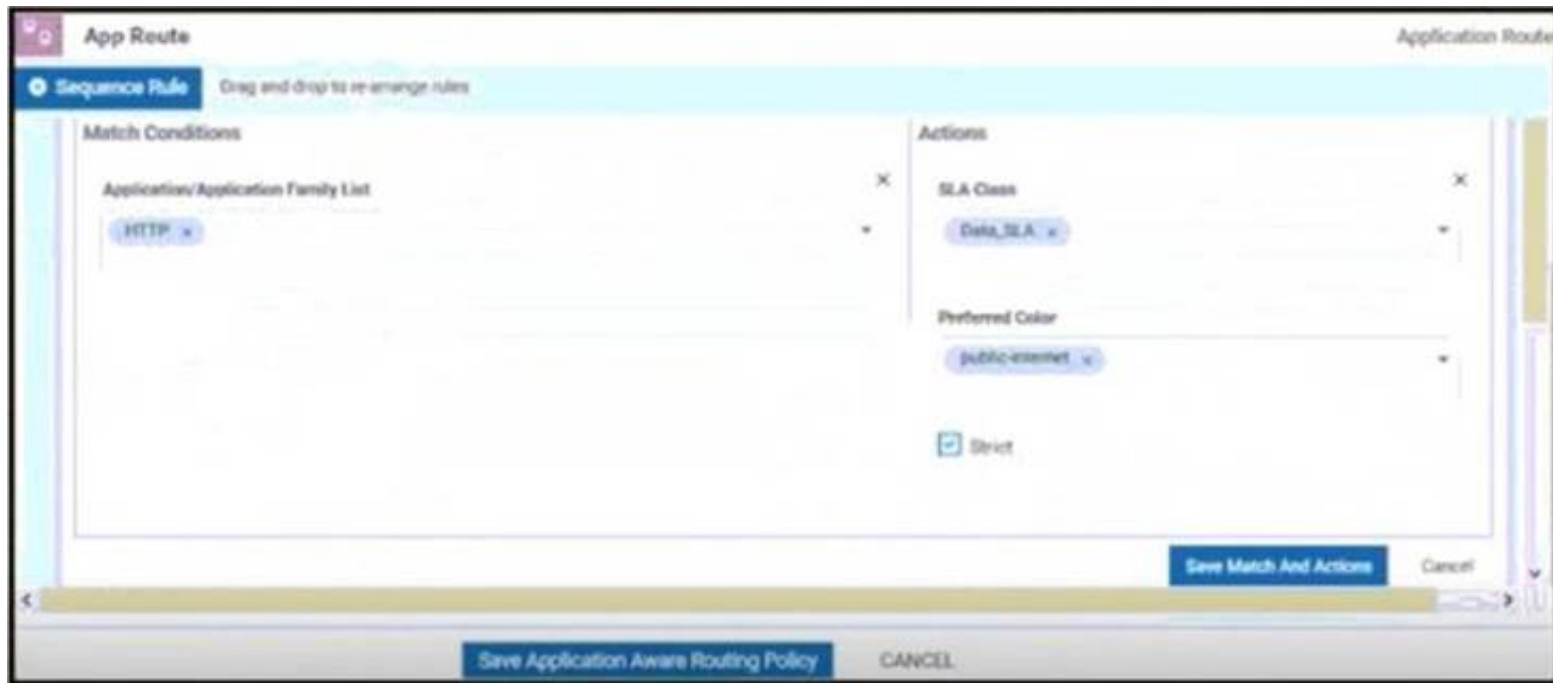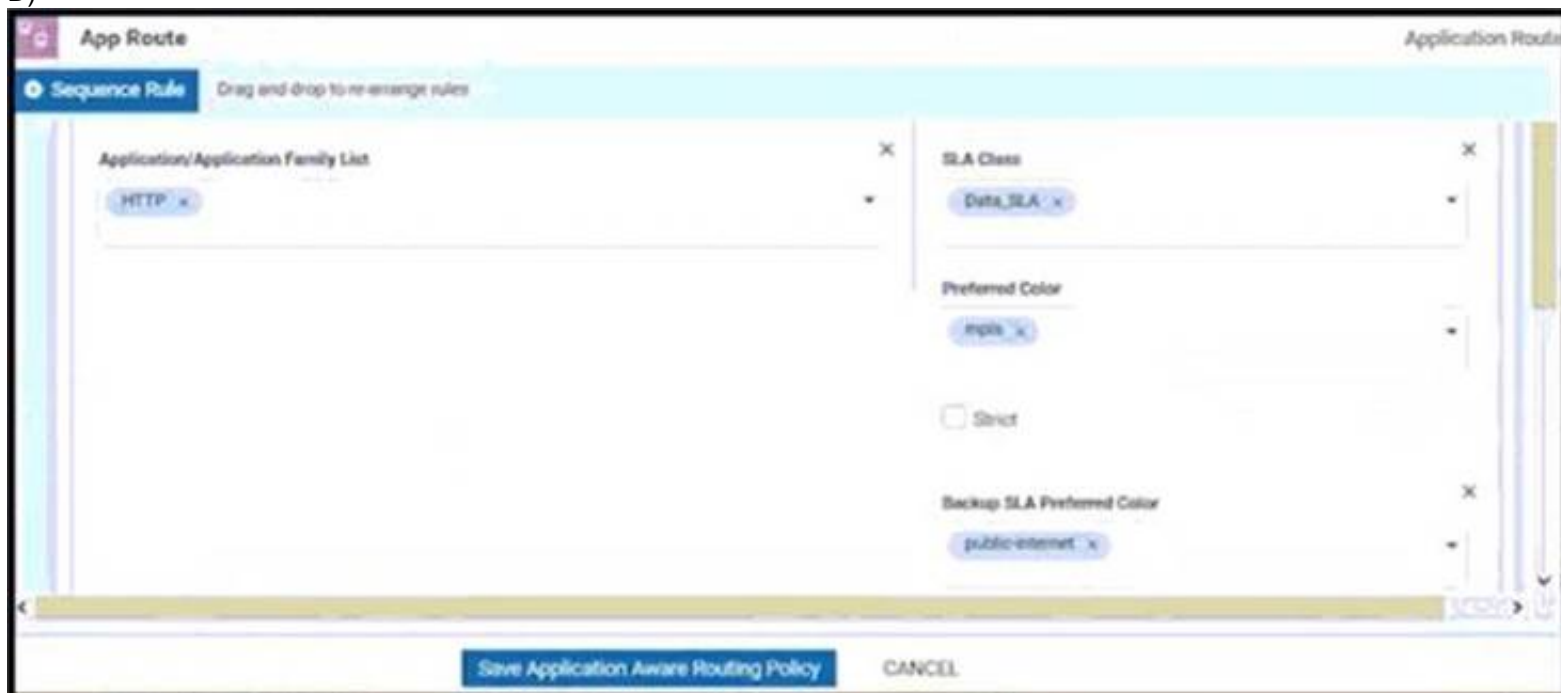A)

B)

C)

D)

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

Answer: C

NEW QUESTION 280
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 282
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 285
Which OMP route is selected for equal OMP route preference values on WAN Edge routers?

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

Answer: A

NEW QUESTION 288
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 291
The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location 406141498 Which command must be configured on these devices?

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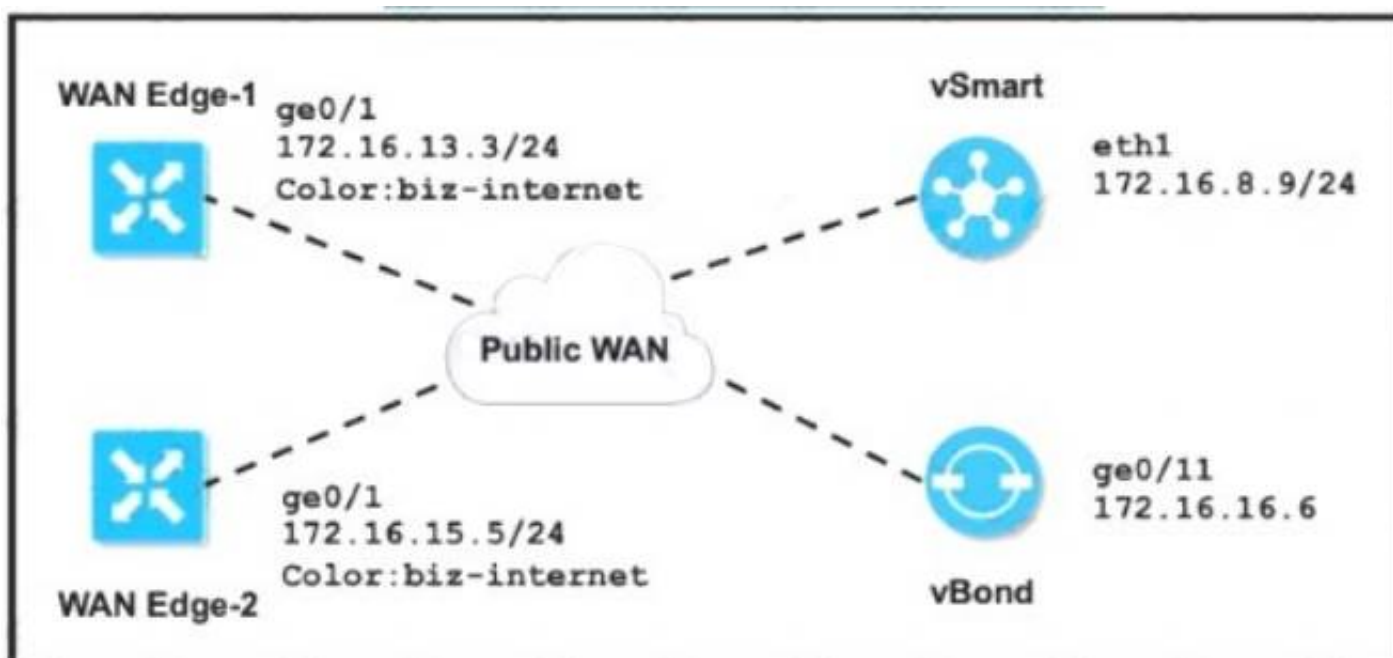C. cloud-mis qos
D. mis qos

Answer: A

NEW QUESTION 292
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 297
Refer to the exhibit.

The tunnel interface configuration on both WAN Edge routers is:

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

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

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

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

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

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

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

Answer: B

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

NEW QUESTION 301
Refer to the exhibit.

Address Family	🌐 ▾	⦿ On	○ Off
Address Family	🌐	ipv4-unicast ✕	
Maximum Number of Prefixes	✔ ▾		
Route Policy In	✔ ▾	○ On	⦿ Off
Route Policy Out	🌐 ▾	⦿ On	○ Off
Policy Name	🌐 ▾	eBGP_Community_Policy	

The engineer must assign community tags to 3 of its 74 critical server networks as soon as that are advertised to BGP peers. These server networks must not be advertised outside AS. Which configuration fulfill this requirement?

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

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

C)

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

D)

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

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

Answer: D

NEW QUESTION 305
Which device should be configured with the service chain IP address to route intersite traffic through a firewall?

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

Answer: A

NEW QUESTION 310
In an AWS cloud, which feature provision WAN Edge routers automatically in Cisco SD-WAN?

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

Answer: B

Explanation:

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

NEW QUESTION 314
Drag and drop the devices from the left onto the correct functions on the right.

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
vEdge

vBond

vManage

vSmart
```

NEW QUESTION 315
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 320
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 322
......