Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
In a Cisco SD-WAN architecture, what is the role of the WAN Edge?

A. It provides orchestration to assist in automatic provisioning of WAN Edge routers and overlay
B. It is the management plane responsible for centralized configuration and monitoring
C. It is the control plane that builds and maintains network topology
D. It is the data plane that is responsible for forwarding traffic

Answer: D

Explanation:

Cisco WAN Edge routers are responsible for establishing the network fabric and
forwarding traffic. Cisco WAN Edge routers come in multiple forms, virtual and

NEW QUESTION 2
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)
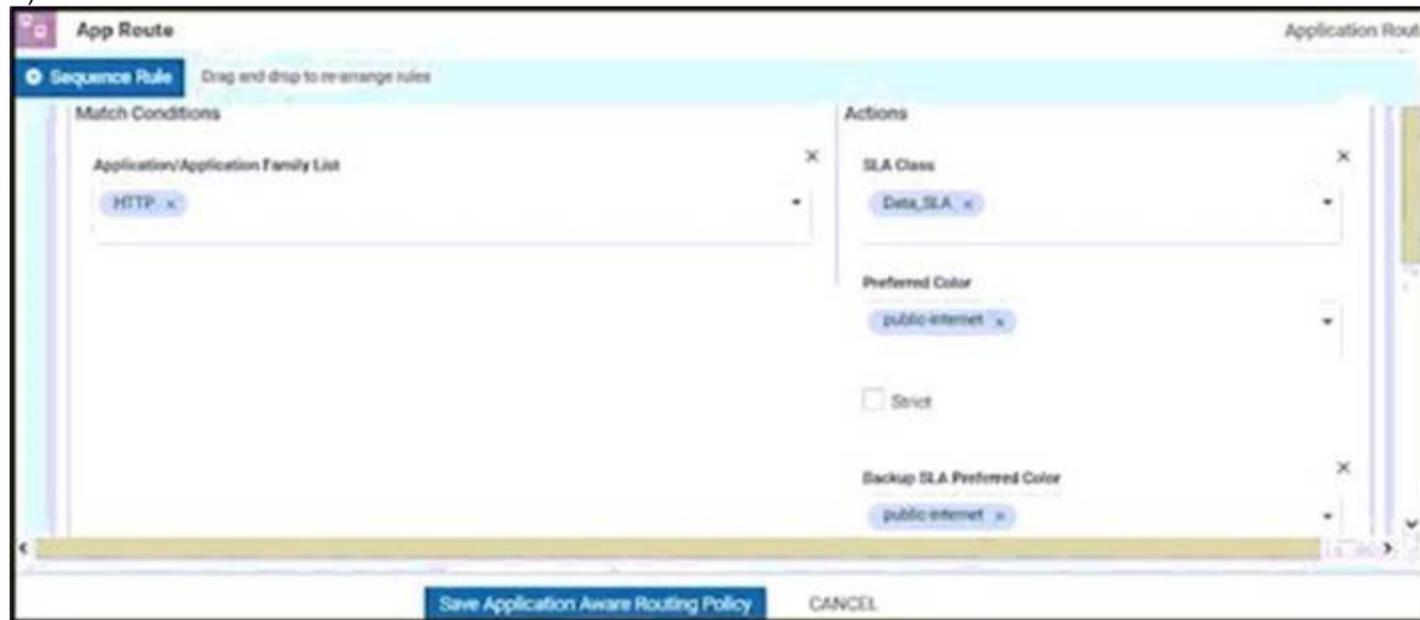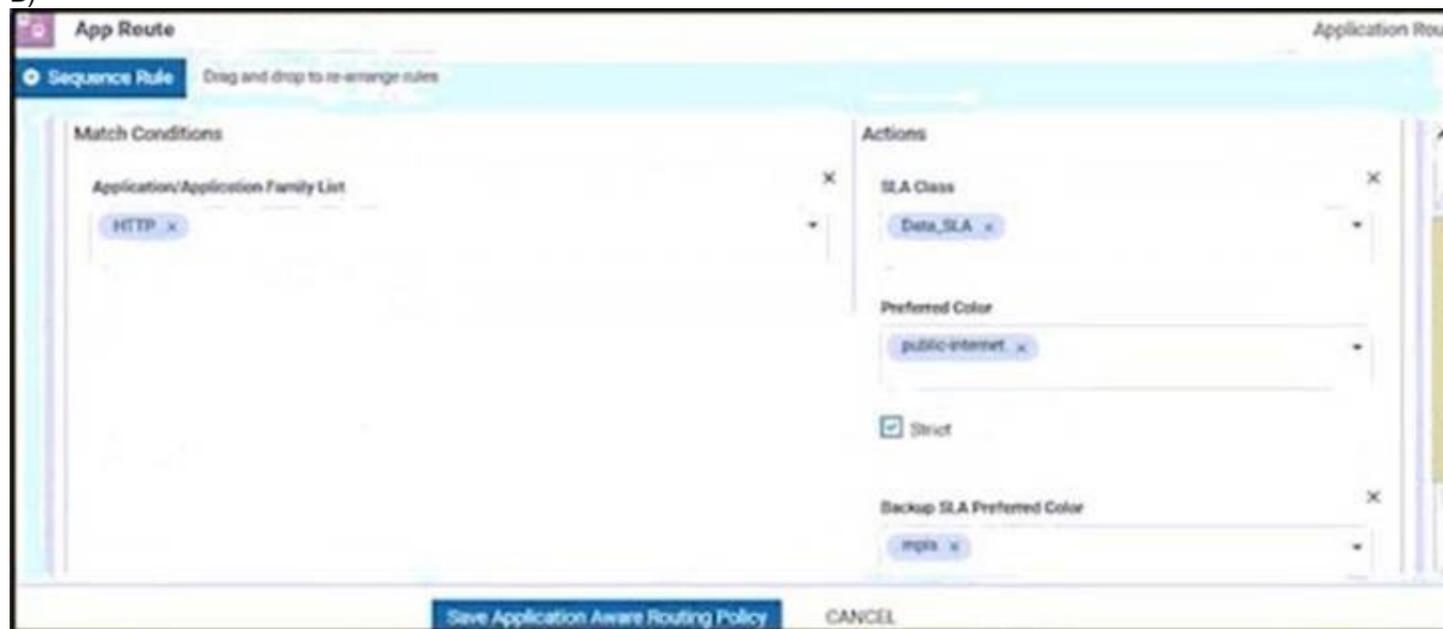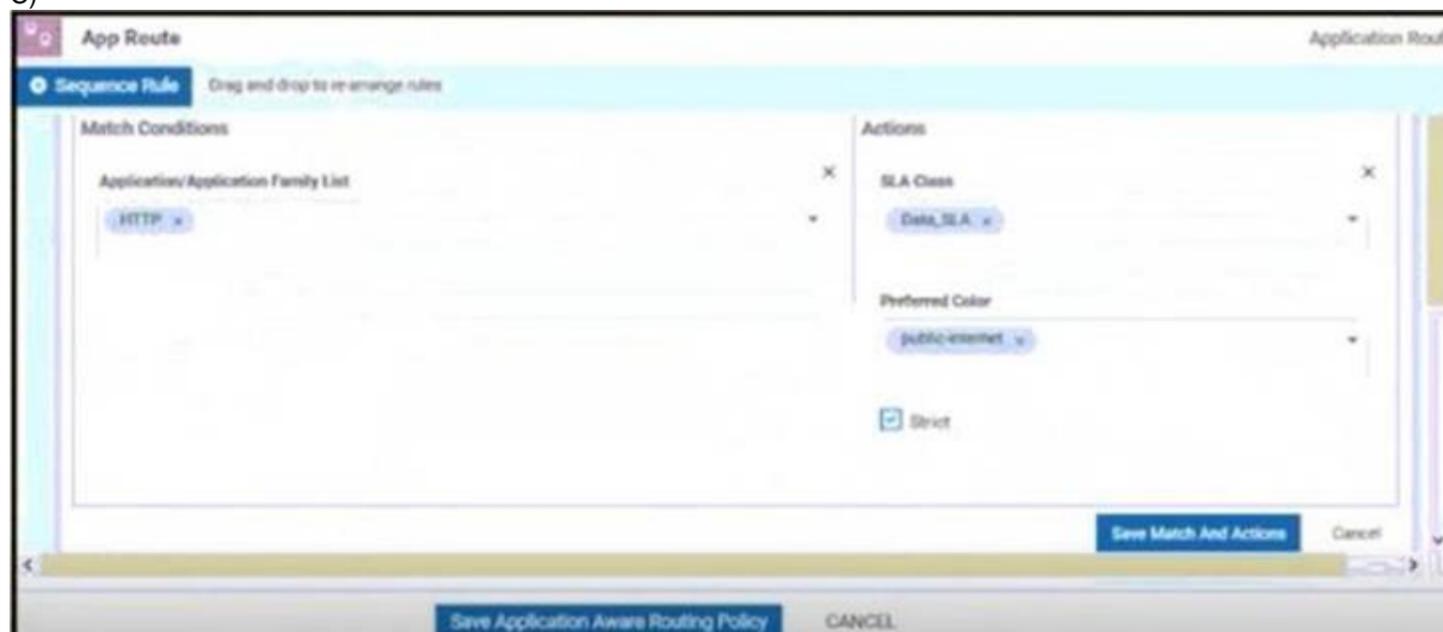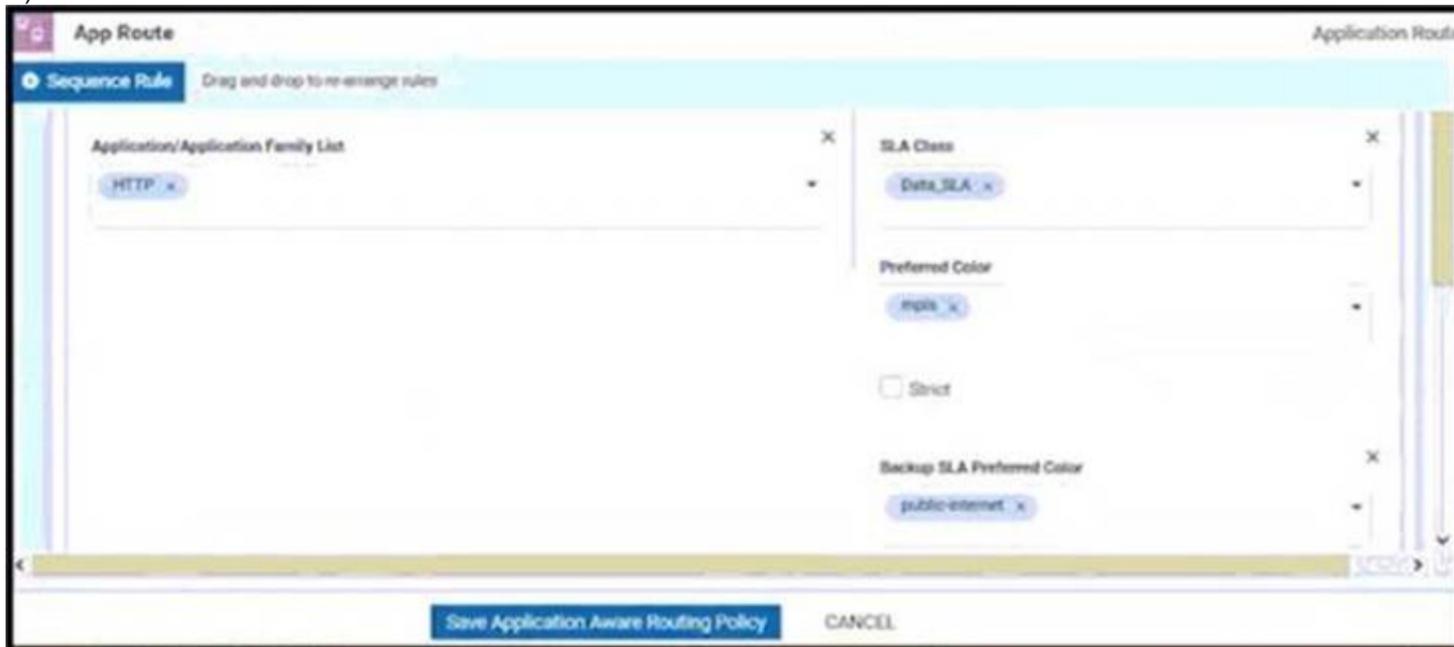
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

NEW QUESTION 3
Which plane builds and maintains the network topology and makes decisions on traffic flows?

A. orchestration
B. management
C. control
D. data

Answer: C

NEW QUESTION 4
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 5
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 6
Drag and drop the route verification output from show omp tlocs from the left onto the correct explanations on the right.

shows if the route was chosen to enter the routing table or not	system ID
ENCAPSULATION	attribute of WAN link
COLOR	type of tunnel being used
TLOC IP	TLOC route status

A. Mastered
B. Not Mastered

Answer: A

Explanation:

shows if the route was chosen to enter the routing table or not	TLOC IP
ENCAPSULATION	COLOR
COLOR	ENCAPSULATION
TLOC IP	shows if the route was chosen to enter the routing table or not
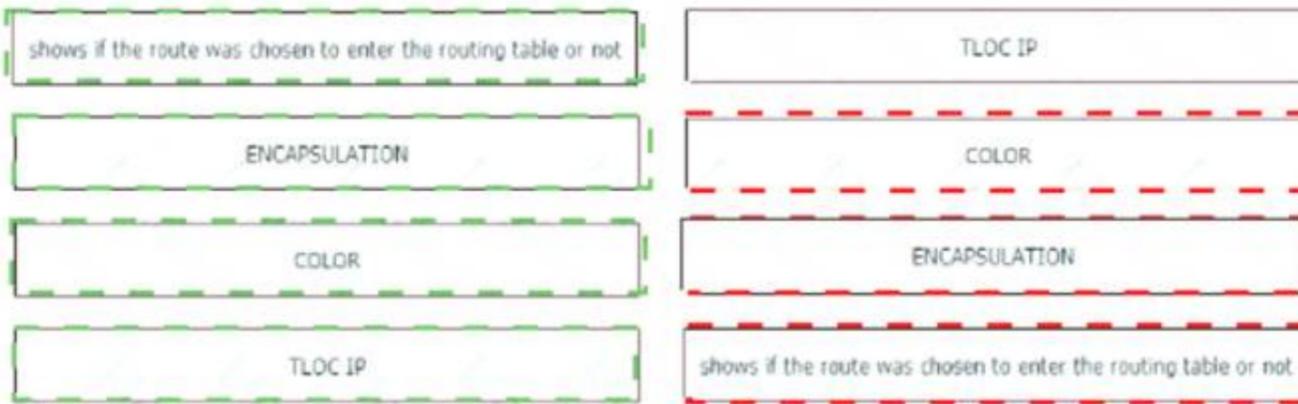
NEW QUESTION 7
Which device in the SD- WAN solution receives and categorizes event reports, and generates alarms?

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 8
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 9
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 10
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 10
Refer to the exhibit,

```
from-vsmart data-policy_1_ServiceIsertionIPSec
direction from-service
vpn-list 1
        sequence 1
        match destination-ip 64.102.6.247/32
        action accept
        set
        service netsvc1
        service local
        default-action accept
```

which configuration configures IPsec tunnels in active and standby?

```
⊙ vpn 1
  service netsvc1 interface ipsec1 ipsec2

  vpn-list 1
          count ServicePSec1_275676046
  from-vsmart lists vpn-list 1
  vpn 1

○ vpn 0
  service netsvc1 interface ipsec1 ipsec2

  from-vsmart lists vpn-list 0
  vpn 0

○ vpn 1
  service netsvc1 interface ipsec1 ipsec2

  from-vsmart lists vpn-list 1
  vpn 1

○ vpn 0
  service netsvc1 interface ipsec1 ipsec2

  vpn-list 1
          count ServicePSec1_275676046
  from-vsmart lists vpn-list 0
  vpn 0
```

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

Answer: C

NEW QUESTION 11
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 15
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.

OpenStack
Cloud Software

VMware
vSphere

Customer owned and
operated

VM Orchestration tools

vEdge cloud VM

Cisco vEdge cloud

NEW QUESTION 20
Which feature builds transport redundancy by using the cross link between two redundant WAN Edge routers?

A. OMP
B. zero-touch provisioning
C. quality of service
D. TLOC extension

Answer: D

Explanation:

Features like TLOC extension help to build transport redundancy by using the cross link between two redundant WAN Edge routers. Network level redundancy is implemented by multiple geo-redundant data centers.

NEW QUESTION 24
A vEdge platform is sending VRRP advertisement messages every 10 seconds. Which value configures the router back to the default timer?

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

Answer: C

NEW QUESTION 26
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 29
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 32
Which command verifies a policy that has been pushed to the vEdge router?

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

Answer: B

NEW QUESTION 35
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 37
An engineer is adding a tenant with location ID 399533345 in vManage. What is the maximum number of alphanumeric characters that is accepted in the tenant name filed?

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

Answer: B

Explanation:
In the Add Tenant window:

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

NEW QUESTION 42
Which policy configures an application-aware routing policy under Configuration > Policies?

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

Answer: B

NEW QUESTION 44
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 47
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 51
When VPNs are grouped to create destination zone in Zone-Based Firewall, how many zones can a single VPN be part of?

A. two
B. four
C. one
D. three

Answer: C

NEW QUESTION 53
Which protocol is used to measure loss latency, Jitter, and liveliness of the tunnel between WAN Edge router peers?

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

Answer: D

NEW QUESTION 54

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 58
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 63
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 67
Drag and drop the BFD parameters from the left onto the BFD configurations on the right.

poll interval		BFD for Transport Tunnel
color		
hello interval		
PMTU discovery		BFD for Application-Aware Routing
multiplier		

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 68
Refer to the exhibit.
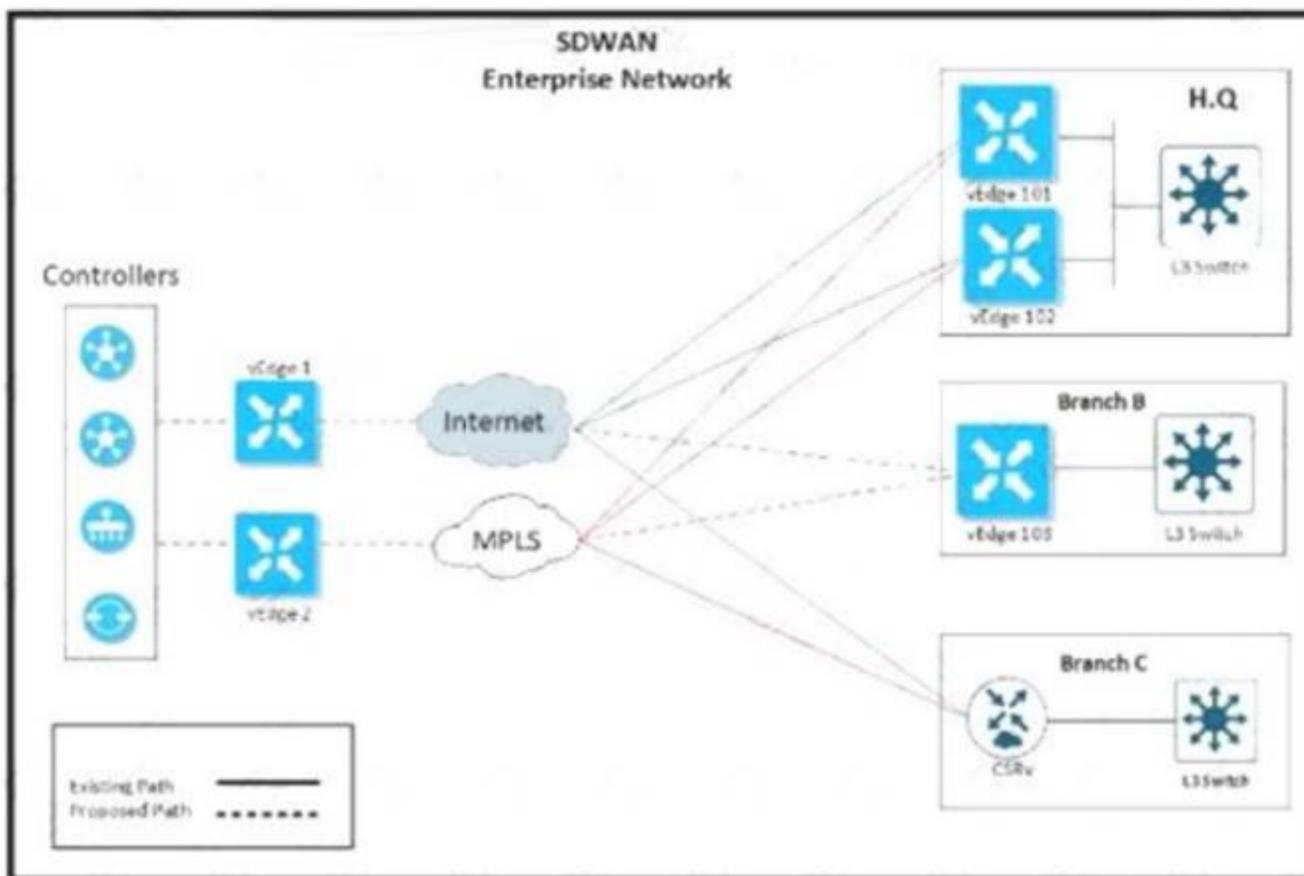
The network team must configure branch B WAN Edge device 103 to establish dynamic full-mesh IPsec tunnels between all colors with branches over MPLS and Internet circuits. The branch ts configured with:

```
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 71
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 76
What is the purpose of ''vpn 0'' in the configuration template when onboarding a WAN edge node?

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

Answer: A

Explanation:

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

NEW QUESTION 77
Refer to the exhibit
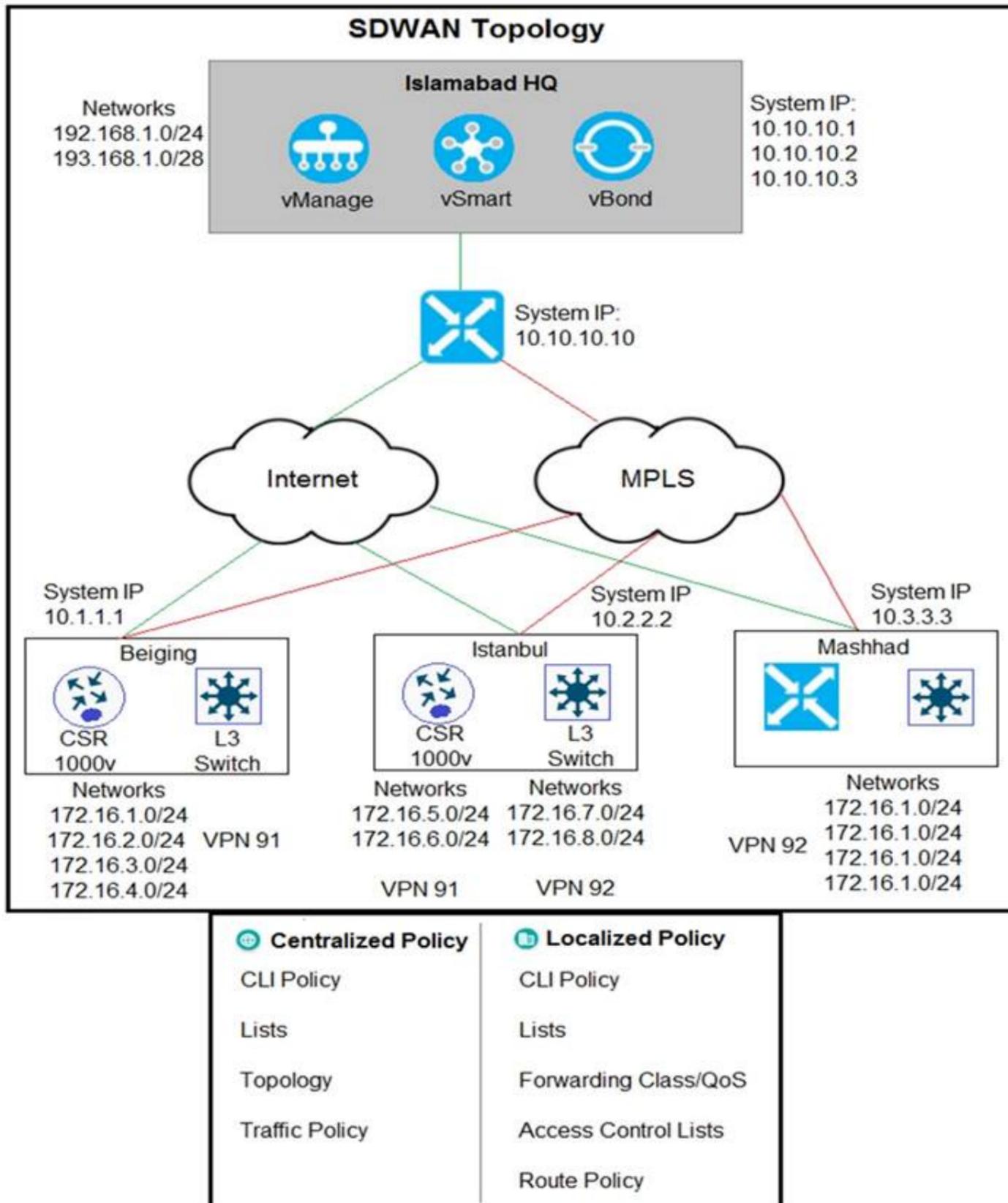
The Cisco SD-WAN network is configured with a default full-mesh topology. Islamabad HQ and Islamabad WAN Edges must be used as the hub sites. Hub sites MPLS TLOC must be preferred when forwarding FTP traffic based on a configured SLA class list. Which policy configuration does the network engineer use 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 79
An administrator wants to create a policy to add a traffic policer called "politer-ccnp" to police data traffic on the WAN Edge. Which configuration accomplishes this task in vSmart?

A.
```
vpn 1
   interface ge 0/4
      policer policer-ccnp in
```

B.
```
policy
   data-policy policy-ccnp
      vpn-list list-ccnp
         sequence number
            action accept
               set policer policer-ccnp
```

C.
```
policy
   access-list list-ccnp
      sequence number
         action accept
            policer policer-ccnp
```

D.
```
vpn 1
   interface ge 0/4
      policer policer-ccnp out
```

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

Answer: B

NEW QUESTION 84
Which two mechanisms are used to guarantee the integrity of data packets in the Cisco SD-WAN architecture data plane? {Choose two)

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

Answer: BE

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

NEW QUESTION 89
Which two requirements must be met for DNS inspection when integrating with cisco umbrella? (Choose two)

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

Answer: BC

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

NEW QUESTION 91
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 92
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 97
An enterprise needs DIA on some of its branches with a common location ID: A041:B70C: D78E::18 Which WAN Edge configuration meets the requirement?
A)
```
vpn 1
 interface ge0/1
  ip address 172.16.0.1/24
vpn 512
 ip route 0.0.0.0/0 vpn 0
```
B)
```
vpn 1
 ip route 0.0.0.0/0 vpn 1
 interface ge0/0
  ip address 172.16.0.1/24
  nat
```
C)
```
vpn 0
 interface ge0/0
  ip address 172.16.0.1/24
  nat
vpn 1
 ip route 0.0.0.0/0 vpn 0
```
D)
```
vpn 0
 ip route 0.0.0.0/0 vpn 0
vpn 1
 interface ge0/1
  ip address 172.16.0.1/24
  nat
```

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

Answer: C

NEW QUESTION 100
Refer to the exhibit.

```
policy                                            !
 lists                                            !
  !                                                default-action accept
  tloc-list dc-preference-east                    !
   tloc 100.100.100.100 color mpls               control-policy adv-dc-preference-east
encap ipsec preference 200                         sequence 10
   tloc 101.101.101.101 color mpls                 match route
encap ipsec preference 400                          site-list dc-sites
  !                                                 !
  site-list sites-region-west                      action accept
   site-id 1-20                                      set
  !                                                   tloc-list dc-preference-east
  site-list sites-region-east                        !
   site-id 21-40                                     !
  !                                                  !
  site-list dc-sites                                default-action accept
   site-id 100-101                                  !
                                                   !
                                                  apply-policy
  control-policy adv-dc-preference-west            site-list sites-region-west
   sequence 10                                      control-policy adv-dc-preference-west
    match route                                   out
     site-list dc-sites                            !
    !                                               site-list sites-region-east
    action accept                                   control-policy adv-dc-preference-east
     set                                          out
      tloc-list dc-preference-east                 !
    !                                             !
```

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

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

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

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

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

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

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

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

Answer: A

NEW QUESTION 105
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 107
If Smart Account Sync is not used, which Cisco SD-WAN component is used to upload an authorized serial number file?

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

Answer: B

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

NEW QUESTION 109
An engineer is adding a tenant with location JD 306432373 in vManage. What is the maximum number of alphanumeric characters that are accepted in the tenant name field?

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

Answer: B

Explanation:
In the Add Tenant window:

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

NEW QUESTION 114
Refer to the exhibit.
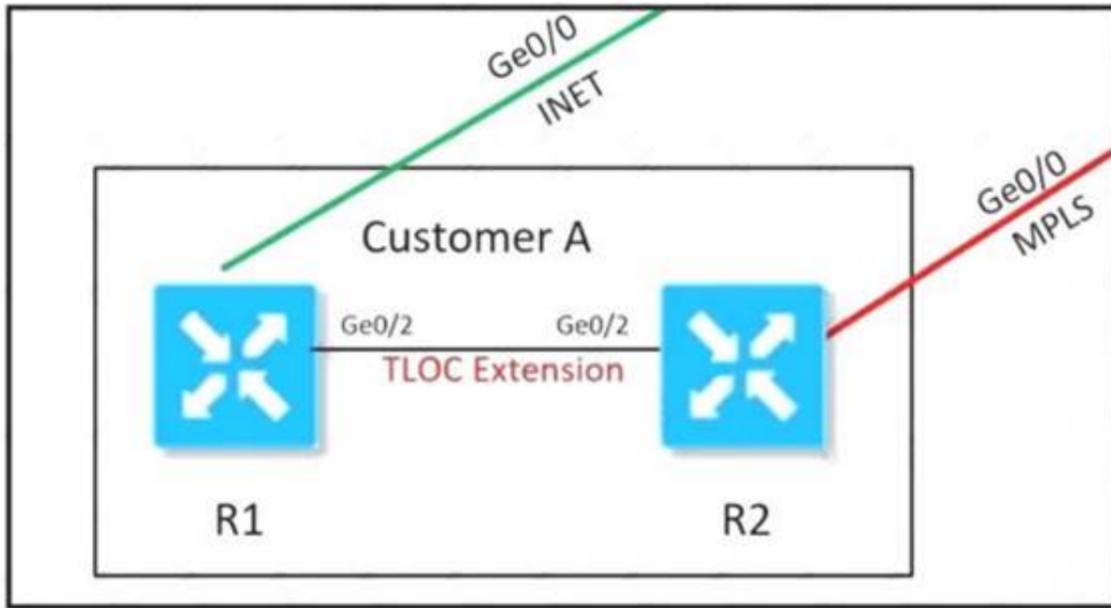
An MPLS connection on R2 must extend to R1 Users behind R1 must have dual connectivity for data traffic Which configuration provides R1 control connectivity over the MPLS connection?

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 116
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 121
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 123
Refer to the exhibit.
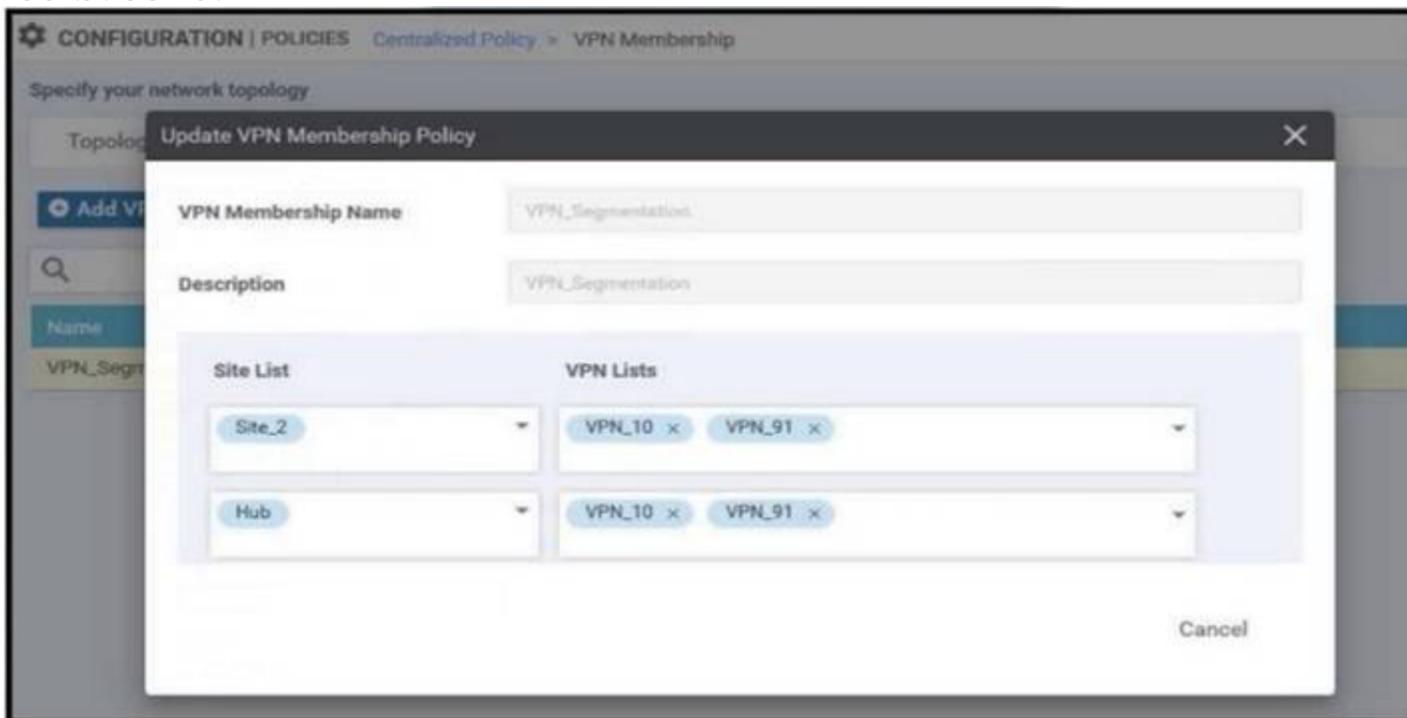
An enterprise has hub and spoke topology where it has several VPNs. An engineer must allow users in VPN91 to reach users in VPN92 and VPN10 to reach VPN91 and VPN92. Which configuration meets these requirements?
A)

B)

C)

D)

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

Answer: C

NEW QUESTION 124
Refer to the exhibit.
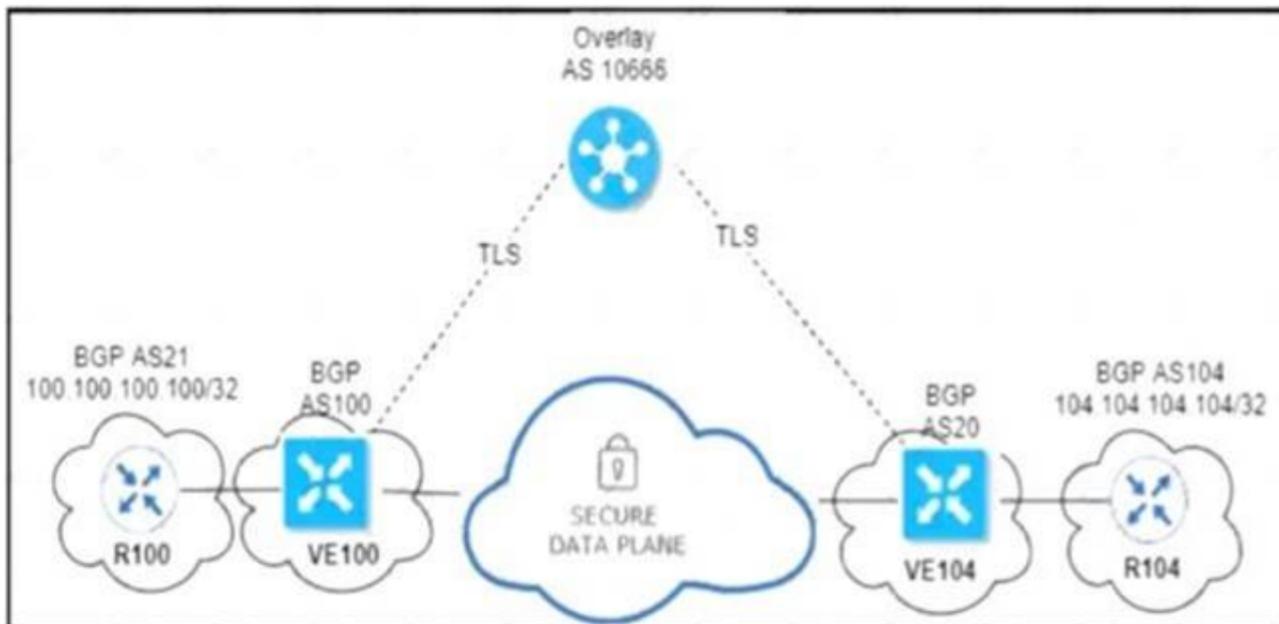
An engineer configured OMP with an overlay-as of 10666. What is the AS-PATH for prefix 104.104.104.104/32 on R100?

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

Answer: A

NEW QUESTION 129
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 133
Refer to the exhibit.
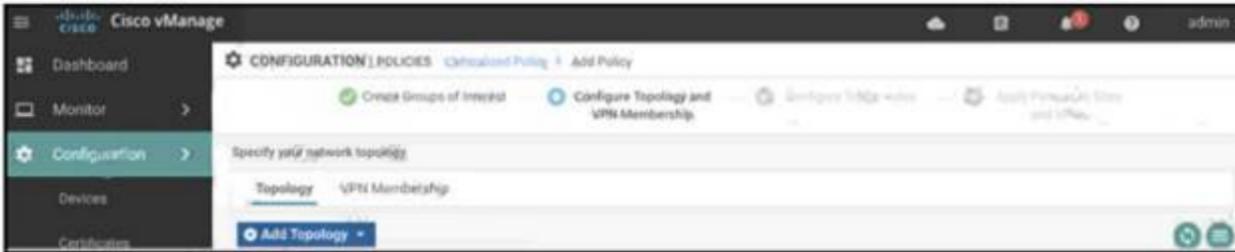
An administrator is configuring a policy in addition to an existing hub-and-spoke policy for two sites that should directly communicate with each other. How is this policy configured?

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

Answer: D

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

NEW QUESTION 138
An engineer must deploy a QoS policy with these requirements:
• policy name: App-police
• police rate: 1000000
• burst: 1000000
• exceed: drop
Which configuration meets the requirements?

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

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

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

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

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

Answer: B

NEW QUESTION 139
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 144
An engineer is configuring a list that matches all IP prefixes with lengths from /1 to /16 in a centralized control policy. Which list accomplishes this task?

A. 0.0.0.0/1 le 16
B. 0.0.0.0/0 ge 1
C. 0.0.0.0/0 le l6
D. 0.0.0.0/16 ge 1

Answer: A

NEW QUESTION 145
Which pathway under Monitor > Network > Select Device is used to verify service insertion configuration?

A. Real Time
B. System Status
C. ACL Logs
D. Events

Answer: A

Explanation:

- Using Cisco vManage:

  View the configured services on the **Real Time** monitoring page (**Monitor > Network** > *hub-device* > **Real Time**). For **Device Options**, select **OMP Services**.

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

NEW QUESTION 149
At which layer does the application-aware firewall block applications on a WAN Edge?

A. 3
B. 7
C. 5
D. 2

Answer: B

NEW QUESTION 153
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 154
Drag and drop the functions from the left onto the correct templates on the right.

VPN 512		routing policy
VPN 0		transport VPN
route-map		management VPN
organization name		service VPN
VPN 10		system information

A. Mastered
B. Not Mastered

Answer: A

Explanation:

VPN 512		route-map
VPN 0		VPN 0
route-map		VPN 512
organization name		VPN 10
VPN 10		organization name
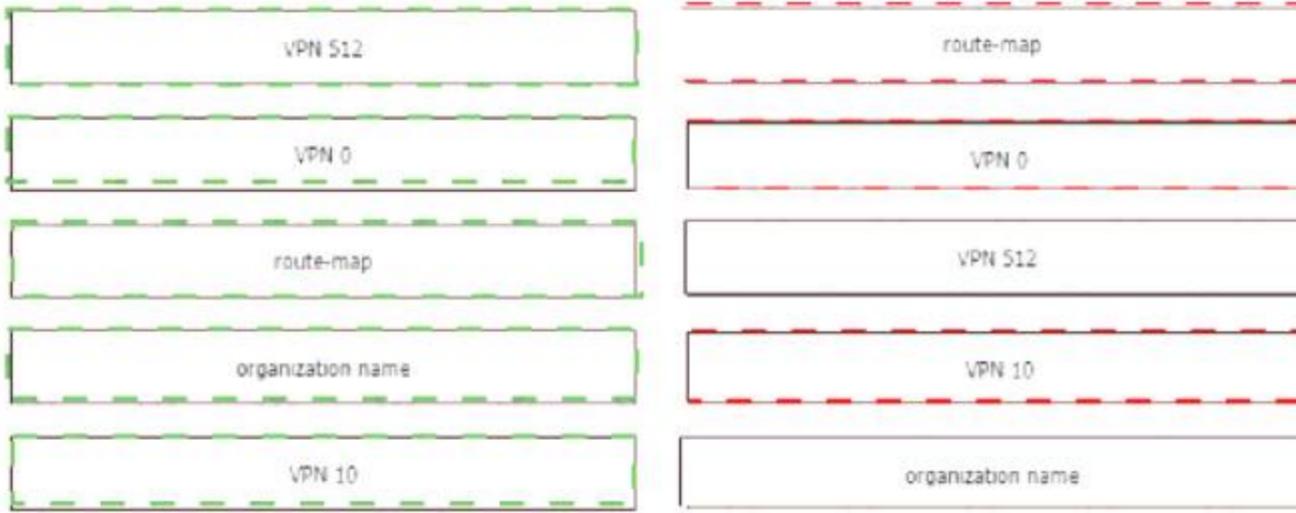
NEW QUESTION 157
Refer to the exhibit.

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 160
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 162
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 164
A large retail organization decided to move some of the branch applications to the AWS cloud. How does the network architect extend the in-house Cisco SD-WAN branch to cloud network into AWS?

A. Create virtual WAN Edge devices Cloud through the AWS online software store
B. Create virtual instances of vSmart Cloud through the AWS online software store
C. Create GRE tunnels to AWS from each branch over the Internet
D. Install the AWS Cloud Router in the main data center and provide the connectivity from each branch

Answer: A

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

NEW QUESTION 169
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 173
Refer to the exhibit

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

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

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

Answer: B

NEW QUESTION 177
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 181
Refer to the exhibit.
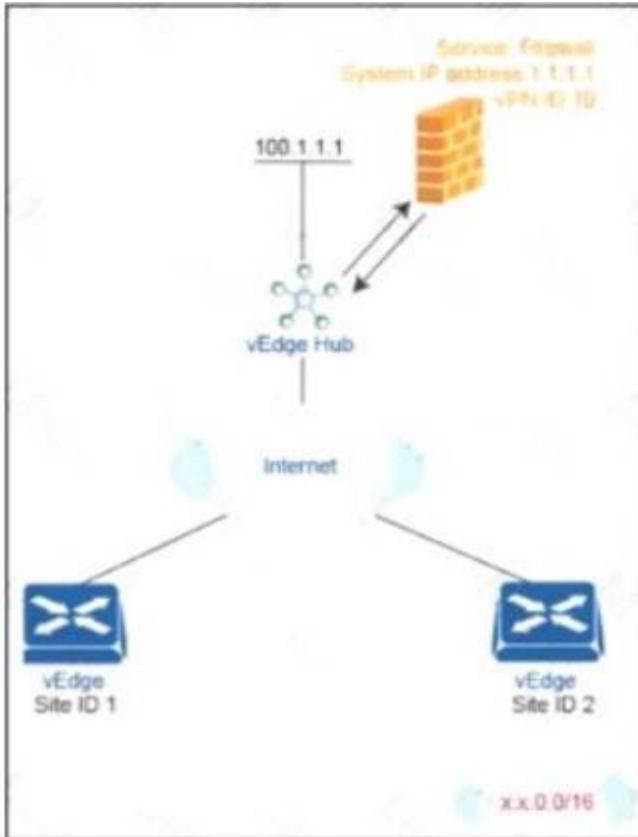
An engineer is configuring service chaining. Which set of configurations is required for all traffic from Site ID 1 going toward Site ID 2 to get filtered through the firewall on the hub site?

A)
```
vpn 20
  service FW address 1.1.1.1
  policy
   lists
     site-list firewall-sites
       site-id 1
     control-policy firewall-service
       sequence 10
         match route
           site-id 2
         action accept
           set service FW vpn 20
       default-action accept
   apply-policy
     site-list firewall-sites control-policy firewall-service out
```

B)
```
vpn 10
  service FW address 1.1.1.1
  policy
   lists
     site-list firewall-sites
       site-id 1
     control-policy firewall-service
       sequence 10
         match route
           site-id 2
         action accept
           set service FW vpn 10
       default-action accept
   apply-policy
     site-list firewall-sites control-policy firewall-service out
```

C)
```
vpn 10
  service FW address 1.1.1.1
  policy
   lists
     site-list firewall-sites
       site-id 1
     control-policy firewall-service
       sequence 10
         match route
           site-id 2
         action accept
           set service FW vpn 20
       default-action accept
   apply-policy
     site-list firewall-sites control-policy firewall-service out
```

D)
```
vpn 10
  service FW address 1.1.1.2
  policy
   lists
     site-list firewall-sites
       site-id 1
     control-policy firewall-service
       sequence 10
         match route
           site-id 2
         action accept
           set service FW vpn 10
       default-action accept
   apply-policy
     site-list firewall-sites control-policy firewall-service out
```

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

Answer: B

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

NEW QUESTION 186
Drag and drop the definitions from the left to the configuration on the right.

matching condition that allows traffic flow between two zones	destination zone
grouping of VPNs where the data traffic flows originate	firewall policy
container that associates forwarding and blocking decisions	source zone
grouping of VPNs where the data traffic flows terminate	zone pair

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

Service Chaining

Traffic Flow Monitoring with Cflowr

NEW QUESTION 191
An engineer wants to change the configuration of the certificate authorization mode from manual to automated. Which GUI selection will accomplish this?

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

Answer: C

Explanation:

Runbook to Request and Install Cisco PKI Certificates

1. Verify that you have satisfied the prerequisites and that you have added the Smart Account credentials.

2. Navigate to Administration ▶ Settings ▶ Controller Certificate Authorization and press Edit.

3. Select the radio button Cisco Automated (Recommended).

NEW QUESTION 195
How is multicast routing enabled on devices in the Cisco SD-WAN overlay network?

A. The WAN Edge routers originate multicast service routes to the vSmart controller via OMP, which then forwards joins for requested multicast groups based on IGMP v1 or v2 toward the source or PIM-RP as specified m the original PIM join message.
B. The vSmart controller originates multicast service routes to the WAN Edge routers via OMP, which then forwards joins for requested multicast groups cased on IGMP v1 or v2 toward the source or PIM-RP as specified m the original PIM join message
C. The vSmart controller originates multicast service routes to the WAN Edge routers via OMP, which then forwards joins (or requested multicast groups based on IGMP v2 or v3 toward the source or PIM-RP as specified in the original PIM join message
D. The WAN Edge routers originate multicast service routes to the vSmart controller via OM
E. which then forwards joins for requested multicast groups based on iGMP v2 or v3 toward the source or PIM-RP as specified in the original PIM join message

Answer: A

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

NEW QUESTION 200
Which command displays BFD session summary information per TLOC on vEdge routers?

A. show bfd history
B. show bfd summary
C. show bfd sessions
D. show bfd tloc-summary-list

Answer: D

NEW QUESTION 202
Which third-party Enterprise CA server must be used (or a cloud-based vSmart controller?

A. RootCert
B. Microsoft
C. RADIUS
D. VeriSign

Answer: A

NEW QUESTION 203
In Cisco SD-WAN, what protocol is used for control connections between SD-WAN devices?

A. DTLS
B. OMP
C. BGP
D. OSPF

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/vedge/security-book/security-overv

NEW QUESTION 208
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 212
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 215
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 220
Refer to the exhibit.
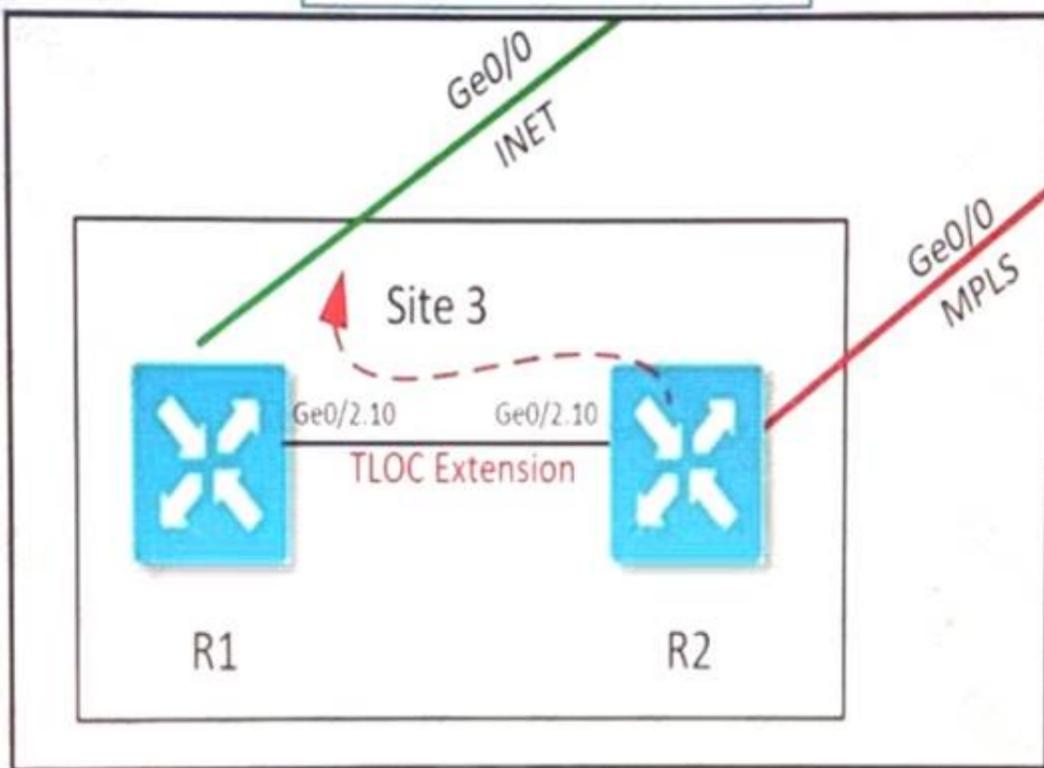
Which configuration extends the INET interface on R1 to be used by R2 for control and data connections?

A)
```
R1
interface ge0/2
  no shutdown
interface ge0/2.10
  ip address 43.43.43.2/30
  tloc-extension ge0/0

R2
interface ge0/2
  no shutdown
interface ge0/2.10
  ip address 43.43.43.1/30
  tloc-extension ge0/0
```

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

R2
interface ge0/2
interface ge0/2.10
  ip address 43.43.43.1/30
  tunnel-interface
    color public-internet
```

C)
```
R1
interface ge0/2
  mtu 1504
  no shutdown
interface ge0/2.10
  ip address 43.43.43.2/30
  tloc-extension ge0/0

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

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

Answer: C

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

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

NEW QUESTION 221
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 226
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 228
Refer to the exhibit
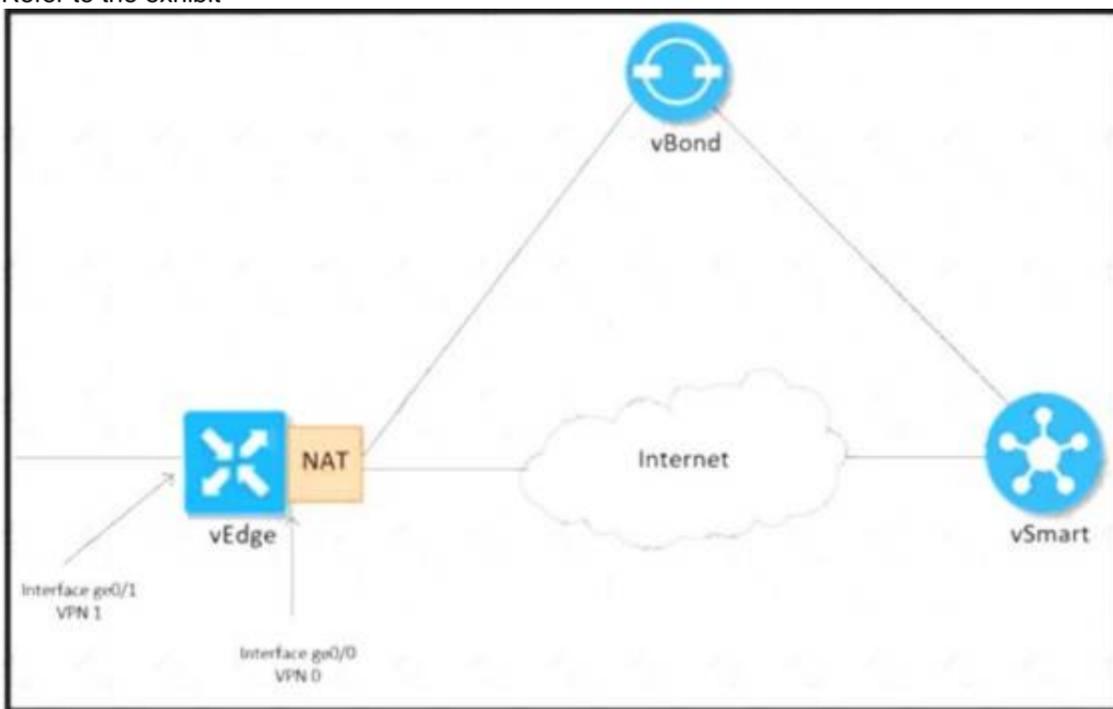
Which configuration sets up direct Internet access for VPN 1?

```
○ 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 230
Refer to the exhibit.

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

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

```
logs
    audit-disable
    netconf-disable
```

```
logs
    netconf-disable
```

```
logging
    disk netconf-disable
```

```
logging
    disk
    audit-disable
    netconf-disable
```

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

Answer: B

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

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

```
Device(config)# system aaa logsViptela(config-logs)# audit-disableViptela(config-logs)# netconf-disable
```


NEW QUESTION 232
An engineer must use data prefixes to configure centralized data policies using the vManage policy configuration wizard. What is the first step to accomplish this task?

A. Create groups of interest

B. Configure network topology.
C. Configure traffic rules.
D. Apply policies to sites and VPNs.

Answer: A

NEW QUESTION 237
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 239

Refer to the exhibit.
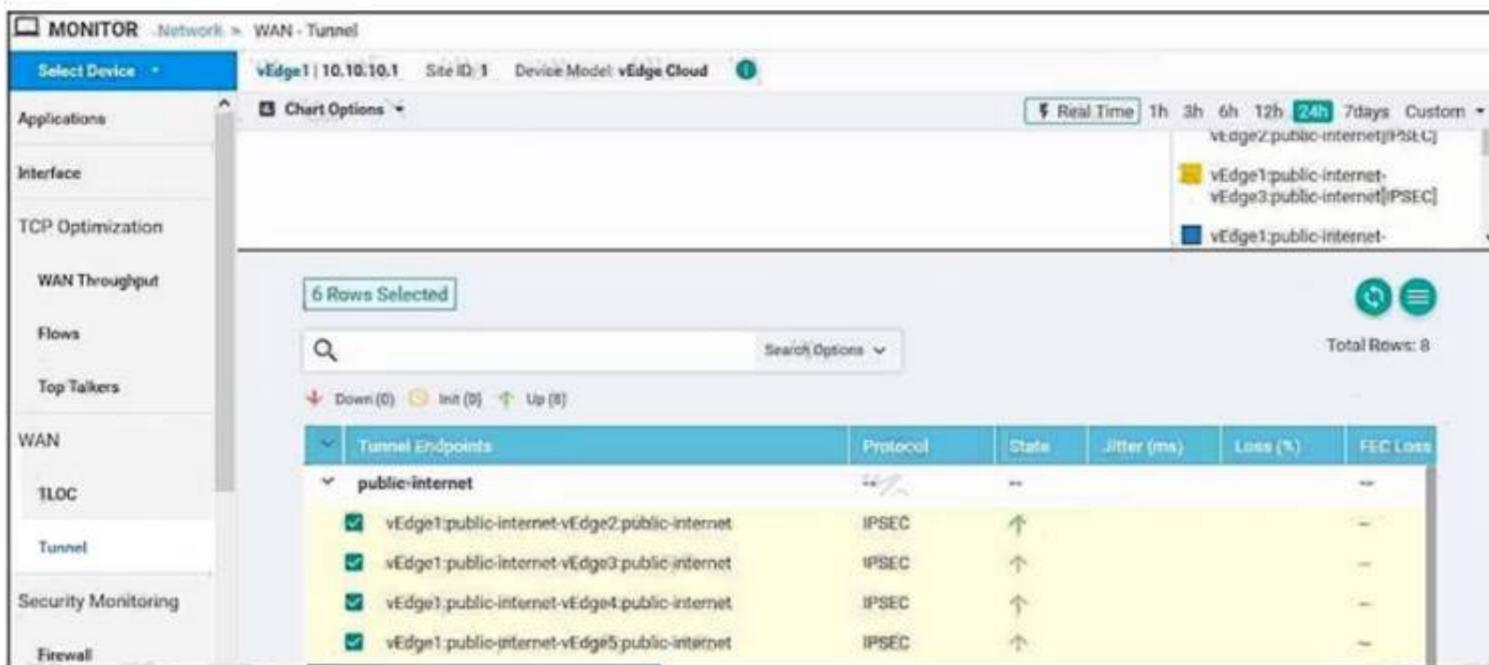
Which command-line configuration on a WAN Edge device achieves these results?

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 242
What is a default protocol for control plane connection?

A. IPsec
B. HTTPS
C. TLS
D. DTLS

Answer: D

NEW QUESTION 245
Which OSPF command makes the WAN Edge router a less preferred exit from a site with a dual WAN Edge design?
A)
```
vpn vpn-id
  router
    ospf
      area number
        range prefix/length
```
B)
```
vpn vpn-id
  router
    ospf
      max-metric
```
C)
```
vpn vpn-id
  router
    ospf
      area number
        no-summary
```
D)
```
vpn vpn-id
  router
    ospf
      area number
        nssa
          no-summary
```

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

Answer: B

NEW QUESTION 246
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 250
A company must avoid downtime at the remote sites and data plane to continue forwarding traffic between WAN Edge devices if the branch router loses

connectivity to its OMP peers Which configuration meets the requirement?

A)

CONFIGURATION	TEMPLATES

Device   Feature

Feature Template   Add Template   OMP

Basic Configuration   Timers   Advertise

Graceful Restart for OMP	⊙ ▾	◯ On ◉ Off
Overlay AS Number	⊙ ▸	2
Graceful Restart Timer (seconds)	⊙ ▾	300
Number of Paths Advertised per Prefix	⊙ ▾	2
ECMP Limit	⊙ ▾	2
Shutdown	⊙ ▾	◯ Yes ◉ No

B)

Feature Template   Add Template   OMP

Basic Configuration   Timers   Advertise

Graceful Restart for OMP	⊙ ▾	◯ On ◉ Off
Overlay AS Number	⊙ ▾	1
Graceful Restart Timer (seconds)	⊙ ▾	33200
Number of Paths Advertised per Prefix	⊙ ▾	2
ECMP Limit	⊙ ▾	2
Shutdown	⊙ ▾	◯ Yes ◉ No

C)

CONFIGURATION	TEMPLATES

Device   Feature

Feature Template   Add Template   OMP

Basic Configuration   Timers   Advertise

Graceful Restart for OMP	⊙ ▾	◉ On ◯ Off
Overlay AS Number	⊙ ▸	1
Graceful Restart Timer (seconds)	⊙ ▾	43200
Number of Paths Advertised per Prefix	⊙ ▾	2
ECMP Limit	⊙ ▾	2
Shutdown	⊙ ▾	◉ Yes ◯ No

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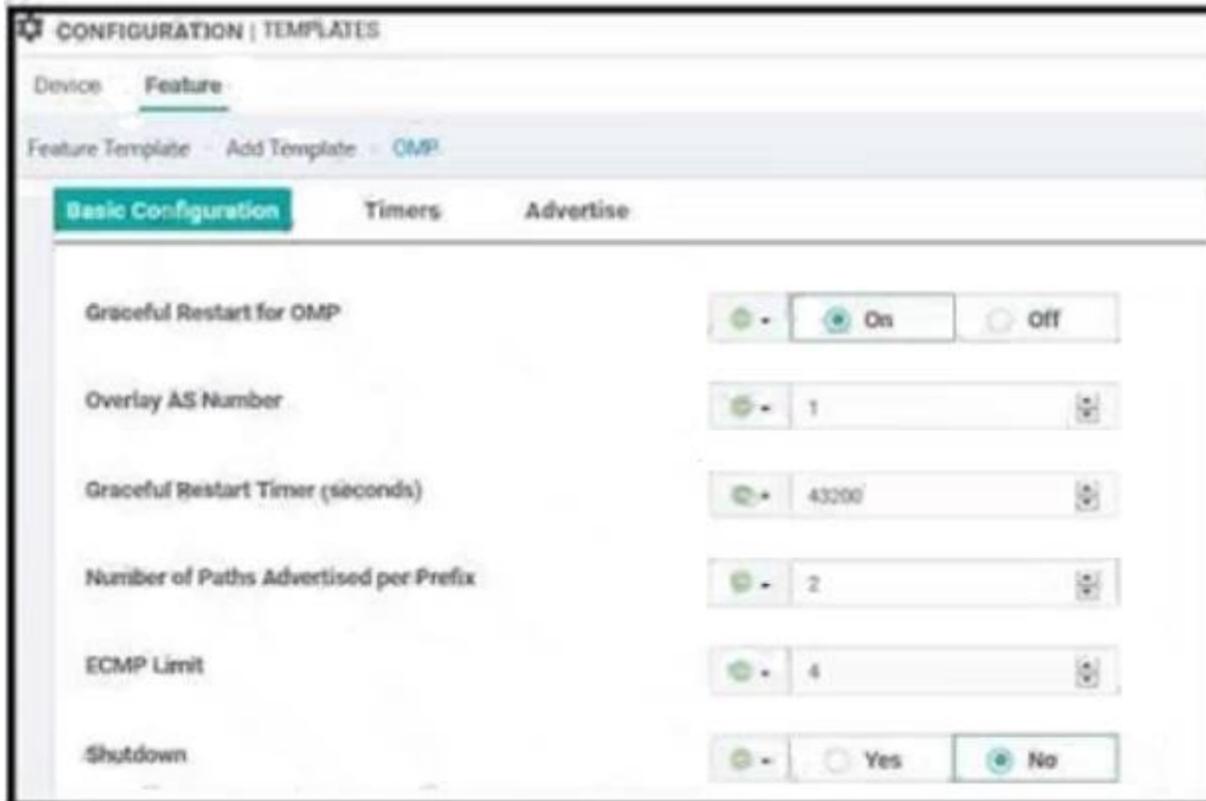
A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

NEW QUESTION 253
Refer to the exhibit.
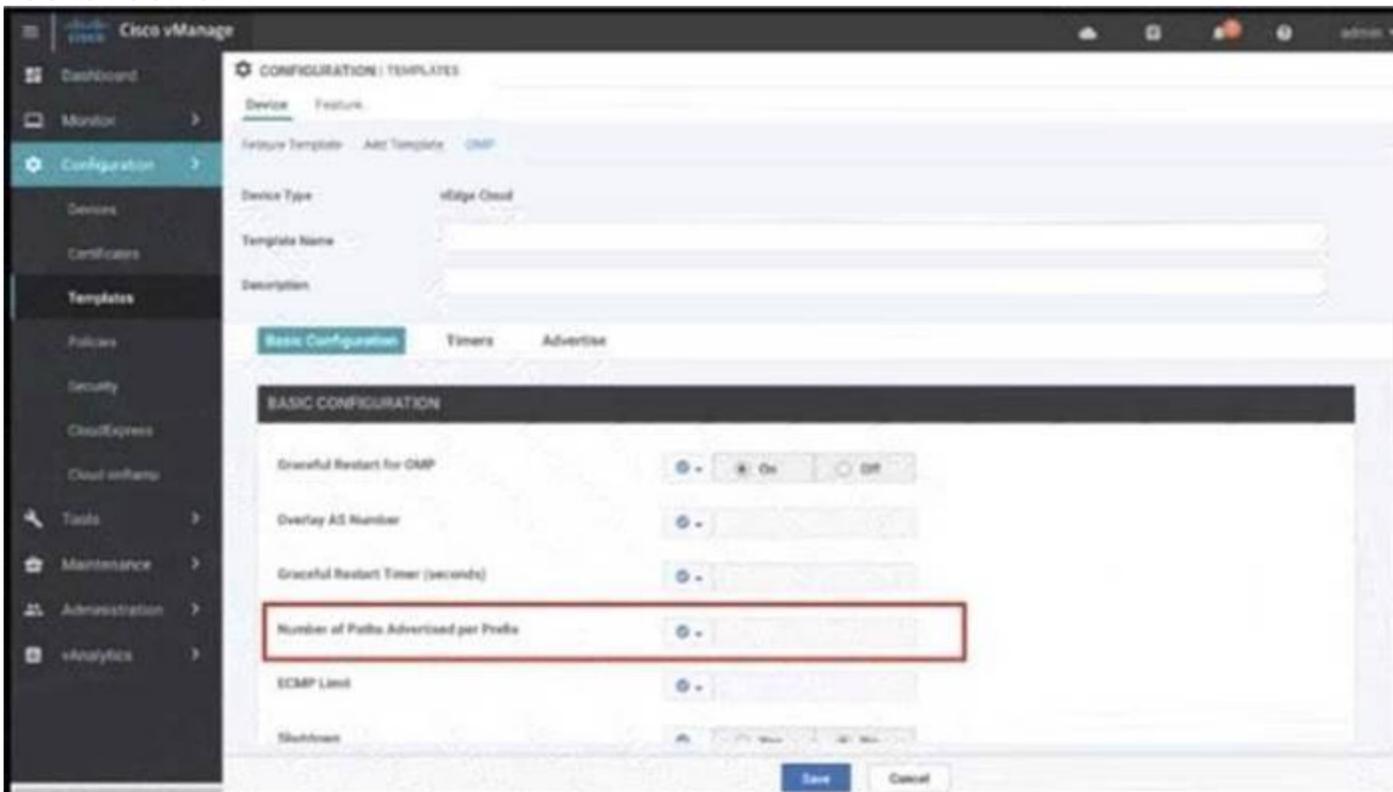
A network administrator is configuring OMP in vManage to advertise all the paths for the same prefix from a site that has two WAN Edge devices Each WAN Edge device is connected to three ISPs and two private MPLS transports. What is the minimum value for 'Number of Paths advertised per Prefix" that should be configured?

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

Answer: D

NEW QUESTION 257
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 261
An engineer is troubleshooting a vEdge router and identifies a "DCONFAIL – DTLS connection failure" message. What is the problem?

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

Answer: D

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

NEW QUESTION 265
Refer to the exhibit.

vManage and vSmart have an issue establishing a connection to vBond. Which configuration resolves the issue?

A. Configure the tunnel interface on all three controllers with a color of transport.
B. Change the timezone on the vSmart to Europe/London.
C. Configure the (11.1.1.X/24) IP addresses on the elhO interfaces on vManage and vSmart.
D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

Answer: B

NEW QUESTION 266
......

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