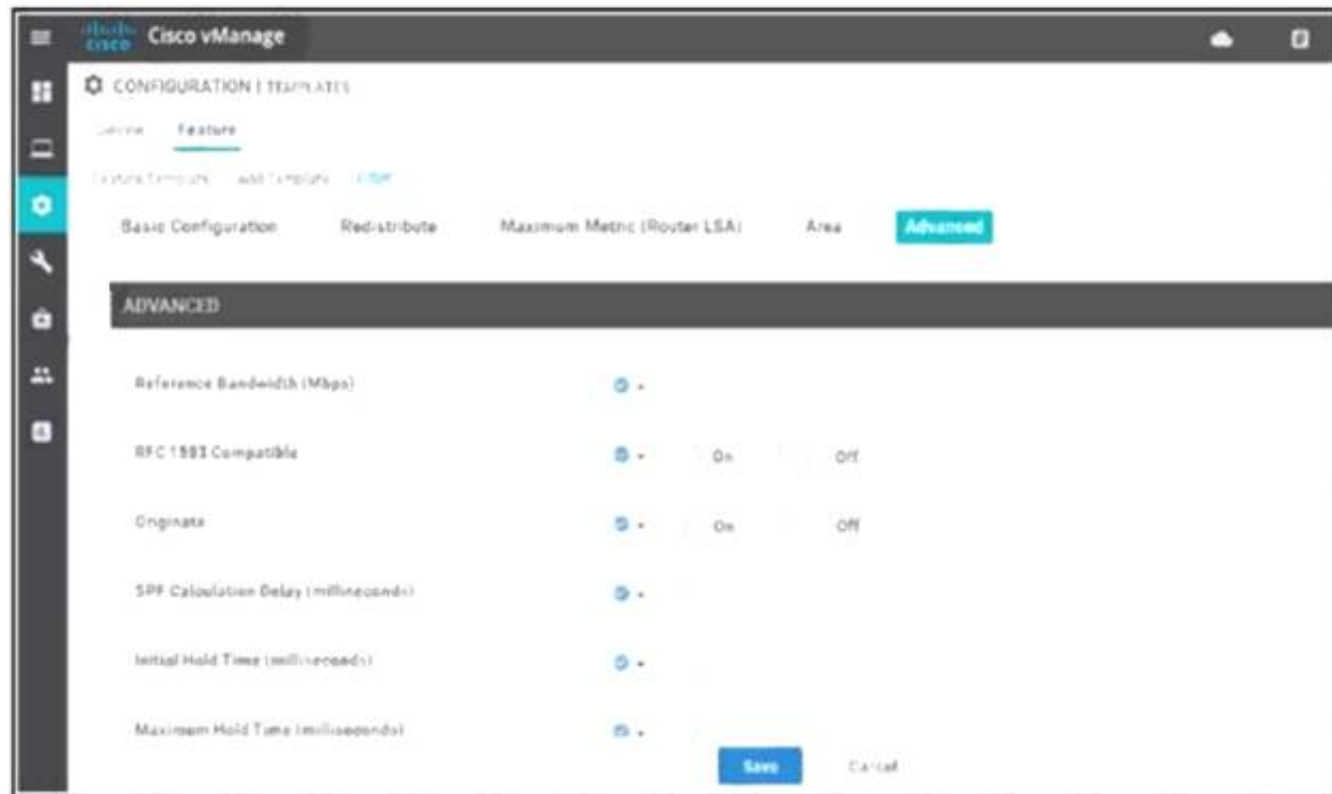# Cisco

Exam Questions 300-415

Implementing Cisco SD-WAN Solutions (ENSDWI)

NEW QUESTION 1
Refer to the exhibit.

A network administrator is configuring OSPF advanced configuration pararmeters from a template using the vManager GUI for a branch WAN Edge router to calculate the cost of summary routes to an ASBR. Which action achieves this configuration?

A. Disable RFC 1583 Compatiblt
B. Enable Originate
C. Enable RFC 1M3 Compatible
D. Disable Original

Answer: C

NEW QUESTION 2
Which two image formats are supported for controller codes? (Choose two.)

A. .nxos
B. .qcow2
C. .ova
D. .bin
E. Tgz

Answer: BC

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

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

Answer: A

Explanation:

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

NEW QUESTION 4
Refer to the exhibit.

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

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

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

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

Answer: B

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

NEW QUESTION 5
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 6
What is the role of the Session Traversal Utilities for NAT server provided by the vBond orchestrator?

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

Answer: C

NEW QUESTION 7
Refer to the exhibit, which configuration configures IPsec tunnels in active and standby?

```
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
```

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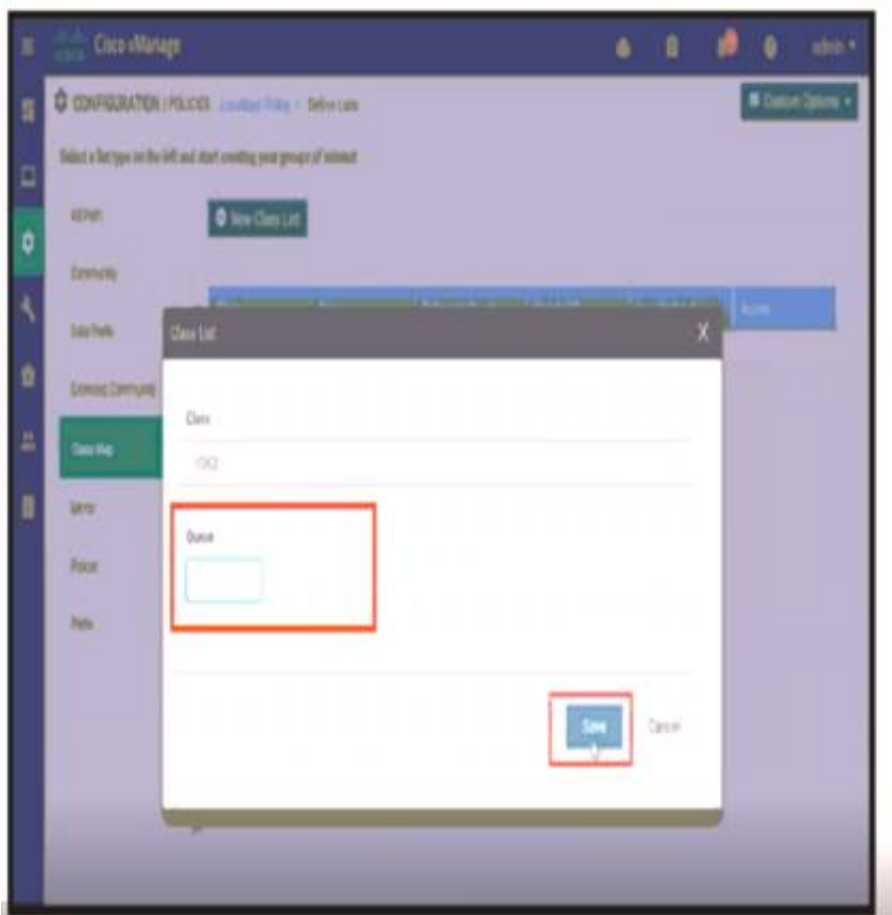
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

NEW QUESTION 8
Refer to the exhibit.

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

A. 1
B. 2
C. 3

Answer: A

NEW QUESTION 9
An engineering team must prepare a traffic engineering policy where an MPLS circuit is preferred for traffic coming from the Admin VLAN Internet should be used as a backup only. Which configuration fulfill this requirement?
A)

```
policy
 data-policy _TE
  vpn-list VPN_10
   sequence 1
    match
     source-data-prefix-list Source_Prefix
     destination-data-prefix-list Dest_Prefix
    action accept
     set
      vpn 10
      tloc-list Hub_TLOCs
   default-action reject
!
 tloc-list Hub_TLOCs
  tloc 10.4.4.4 color mpls encap ipsec preference 300
  tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

B)
```
policy
 data-policy _TE
  vpn-list VPN_10
   sequence 1
    match
     source-data-prefix-list Source_Prefix
     destination-data-prefix-list Dest_Prefix
    action accept
     nat use-vpn 0
     nat fallback
   default-action reject
!
 tloc-list Hub_TLOCs
  tloc 10.4.4.4 color mpls encap ipsec preference 300
  tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

C)
```
policy
 data-policy _TE
  vpn-list VPN_10
   sequence 1
    match
     source-data-prefix-list Source_Prefix
     destination-data-prefix-list Dest_Prefix
       action accept
     set
      vpn 10
      tloc-list Hub_TLOCs
   default-action accept
!
 tloc-list Hub_TLOCs
  tloc 10.4.4.4 color mpls encap ipsec preference 600
  tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

D)
```
policy
 data-policy _TE
  vpn-list VPN_10
   sequence 1
    match
     source-data-prefix-list Source_Prefix
     destination-data-prefix-list Dest_Prefix
    action accept
     set
      vpn 512
      tloc-list Hub_TLOCs
   default-action accept
!
 tloc-list Hub_TLOCs
  tloc 10.4.4.4 color mpls encap ipsec preference 600
  tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

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

Answer: C

NEW QUESTION 10
An engineer is configuring a WAN Edge router for DIA based on matching QoS parameters. Which two actions accomplish this task? (Choose two.)

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

Answer: CD

Explanation:

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

NEW QUESTION 10
Which hardware component is involved in the Cisco SD-WAN authentication process for ISR platforms?

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

Answer: D

NEW QUESTION 13
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 18
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 20
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 23
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 24
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 26
What are the default username and password for vSmart Controller when it is installed on a VMware ESXi hypervisor'?

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

Answer: D

NEW QUESTION 27
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 29
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 32
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 37
An engineer must apply the configuration for certificate installation to vBond Orchestrator and vSmart Controller. Which configuration accomplishes this task?
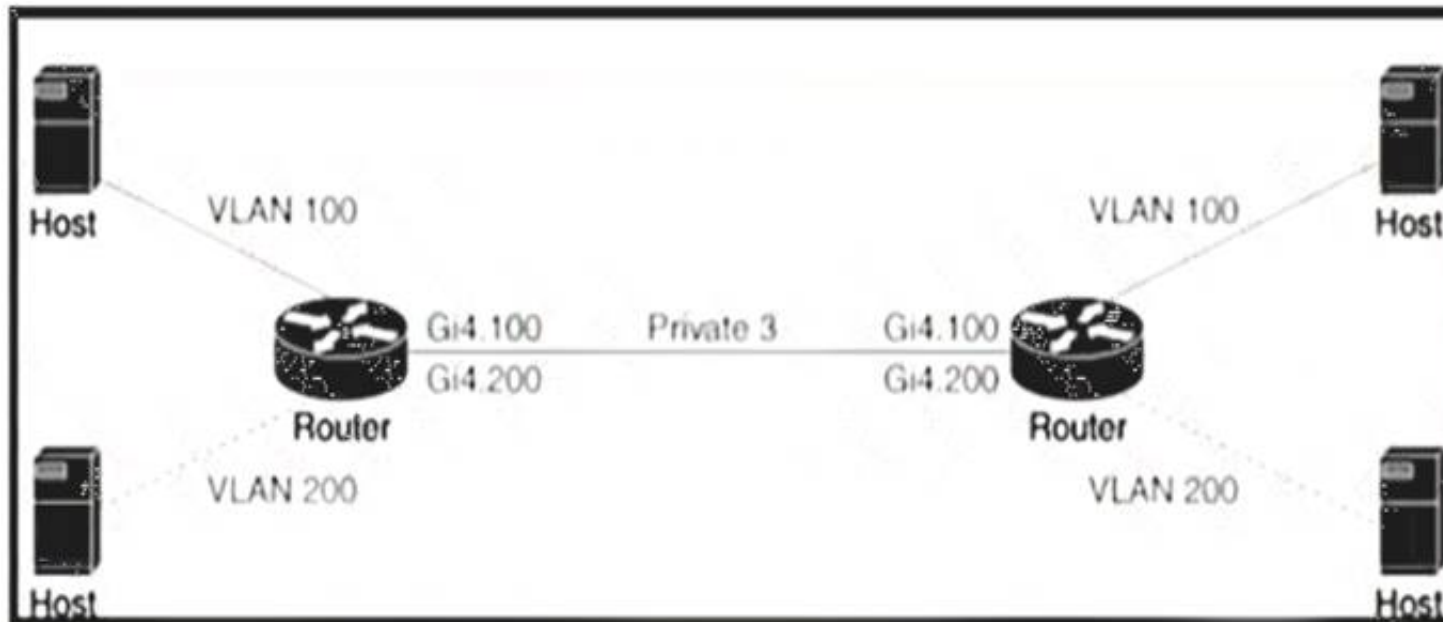
```
vpn 512
  interface eth1
    ip address 199.1.1.1/28
    tunnel-interface
    allow-service netconf
    no allow-service ntp
    no allow-service stun

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

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

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

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

Answer: D

NEW QUESTION 41
Refer to the exhibit

An engineer is configuring a QoS policy to shape traffic for VLAN 100 on a subinterface Which policy configuration accomplishes the task?
A)
```
policy-map shape_GigabitEthernet4.100
  class class-default
    service-policy xyz_QoS-model
    shape average 100000000
!
interface GigabitEthernet4.100
  encapsulation dot1Q 200
  service-policy output shape_GigabitEthernet4.100
```

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

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

D)

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

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

Answer: C

NEW QUESTION 43
Which two virtualized environments are available for a company to install the controllers using the on-premises model? (Choose two)

A. VMware vSphere ESXi
B. VMware Workstation
C. kernel-based virtual machine
D. OpenStack
E. Microsoft Hyper-V

Answer: AD

NEW QUESTION 45
What are the two impacts of losing vManage connectivity to fabric in the Cisco SD-WAN network? (Choose two)

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

Answer: AB

NEW QUESTION 47
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 52
Which secure connection should be used to access the REST APIs through the Cisco vManage web server?

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

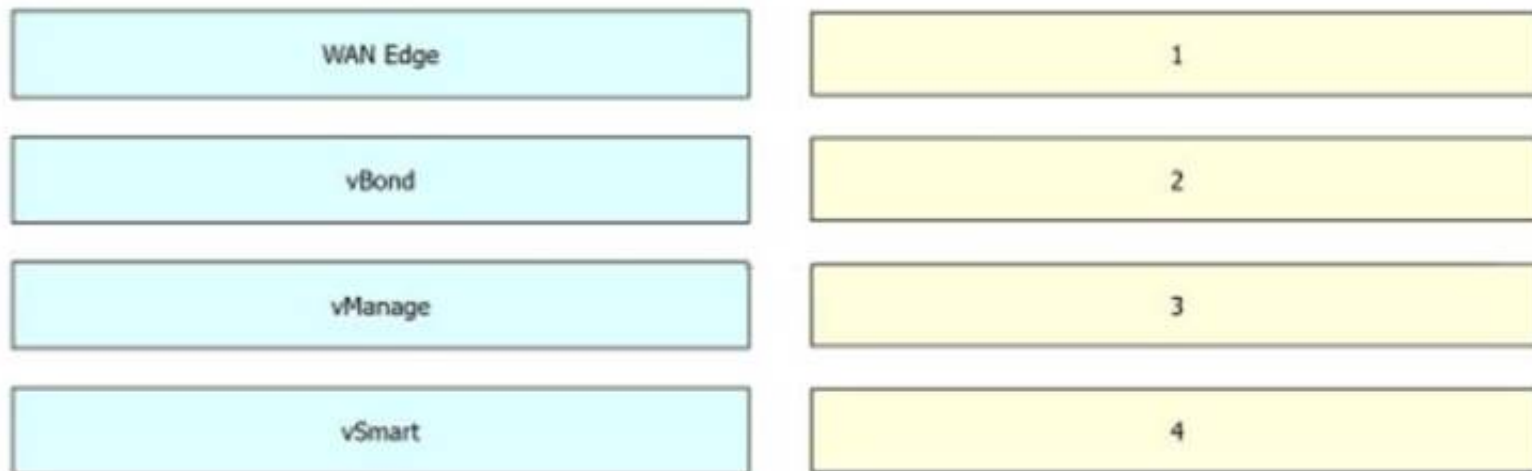**Answer:** B

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

NEW QUESTION 54
Drag and drop the devices from the left into order on the right to upgrade the software from version 19 to version 20.

WAN Edge		1
vBond		2
vManage		3
vSmart		4

A. Mastered
B. Not Mastered

Answer: A

Explanation:

WAN Edge		vManage	1
vBond		vBond	2
vManage		vSmart	3
vSmart		WAN Edge	4

NEW QUESTION 57
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 60
A network administrator is configuring a centralized control policy based on match action pairs for multiple conditions, which order must be configured to prefer Prefix List over TLOC and TLOC over Origin?

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

Answer: D

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

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

NEW QUESTION 61
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 62
When the VPN membership policy is being controlled at the vSmart controller, which policy disallows VPN 1 at sites 20 and 30?
A)
```
apply-policy
 site-list 20-30
  vpn-membership disallow-vpn 1
  !
 !
policy
 lists
  site-list 20-30
   site-id 20
   site-id 30
  !
  vpn-list VPN 1
  vpn 10
  vpn 20
  !
 !
  vpn-membership disallow-vpn 1
   sequence 10
    match
     vpn-list VPN 1
    !
    action reject
    !
   !
 default-action accept
```
B)
```
 policy
 lists
  site-list 20-30
   site-id 20
   site-id 30
  !
  prefix-list drop-list
  ip-prefix 10.200.1.0/24
  !
 !
 control-policy drop-unwanted-routes
  sequence 10
   match route
    prefix-list drop-list
   !
   action reject
   !
  !
  default-action accept
```
C)

```
apply-policy
  site-list 20-30
    vpn-membership disallow-vpn1
  !
!
policy
  lists
   site-list 20-30
    site-id 20
    site-id 30
   !
  !
  vpn-membership disallow-vpn1
    sequence 10
     match vpn-id 1
     action reject
     !
   !
    default-action accept
```
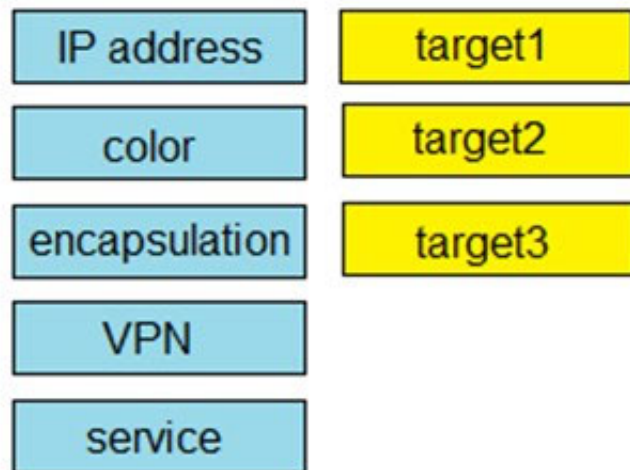
D)
```
policy
   lists
     site-list BP-Sites
        site-id 10
        site-id 20
     vpn-list All-BPs
        vpn 100
        vpn 101
     vpn-list Enterprise-BP
        vpn 200
   control-policy import-BPs-to-Enterprise
     sequence 10
      match route
       vpn-list All-BPs
      !
      action accept
       export-to vpn-list Enterprise-BP
       !
     !
    !
    default-action accept
```

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

Answer: C

NEW QUESTION 65
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 66
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 71
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 76
Which policy tracks path characteristics such as loss, latency, and jitter in vManage?

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

Answer: C

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

NEW QUESTION 78
Which feature delivers traffic to the Cisco Umbrella SIG cloud from a Cisco SD-WAN domain?

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

Answer: B

NEW QUESTION 80
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 81
Refer to the exhibit.

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

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

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

Answer: C

NEW QUESTION 83

What is the behaviour of vBond orchestrator?

A. It maintains vSmart and WAN Edge routers secure connectivity state
B. it builds permanent connections with vSmart controllers
C. it updates vSmart of WAN Edge routers behind NAT devices using OMP.
D. It builds permanent connections with WAN Edge routers

Answer: A

NEW QUESTION 84
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?
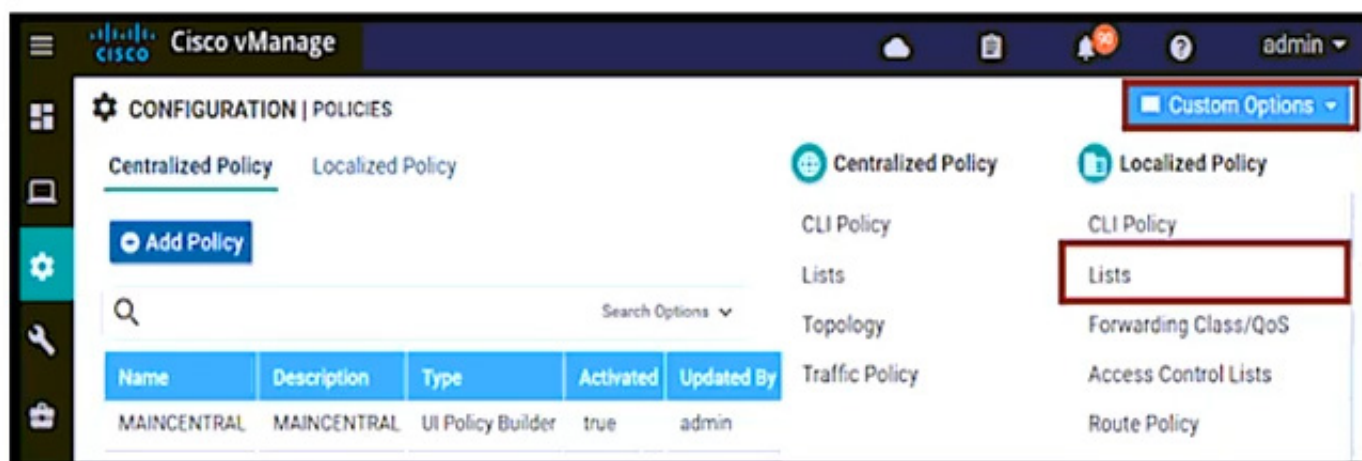
A. Synchronize the WAN Edge list on vManage with controllers.
B. Configure NTP on both controllers to establish a connection.
C. Configure a valid systom IP on the vBond controller.
D. Configure a valid vBond IP on vManage.

Answer: D

NEW QUESTION 89
Which configuration defines the groups of interest before creation of the access list or route map?
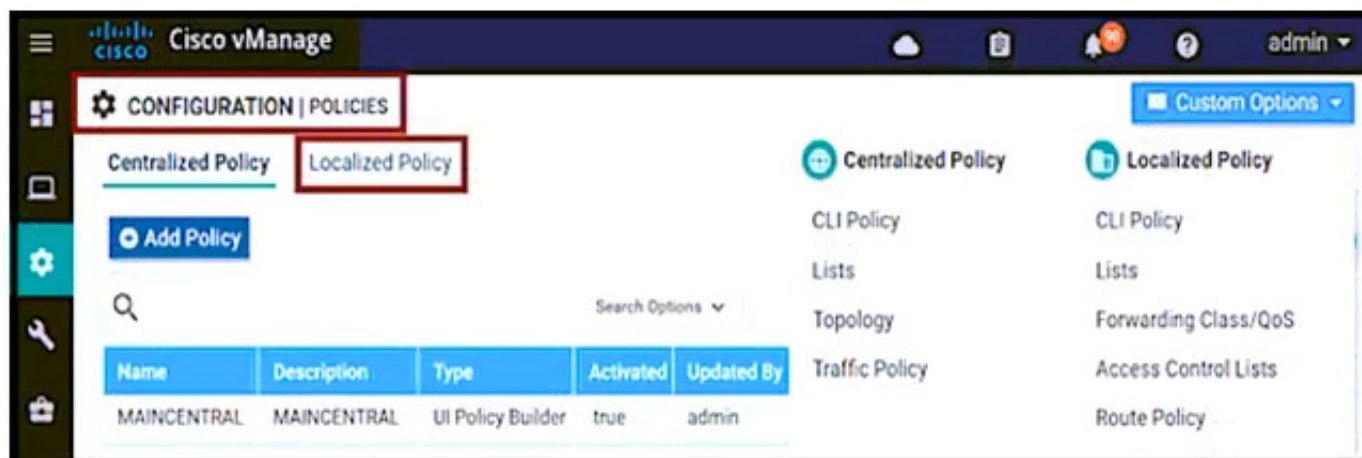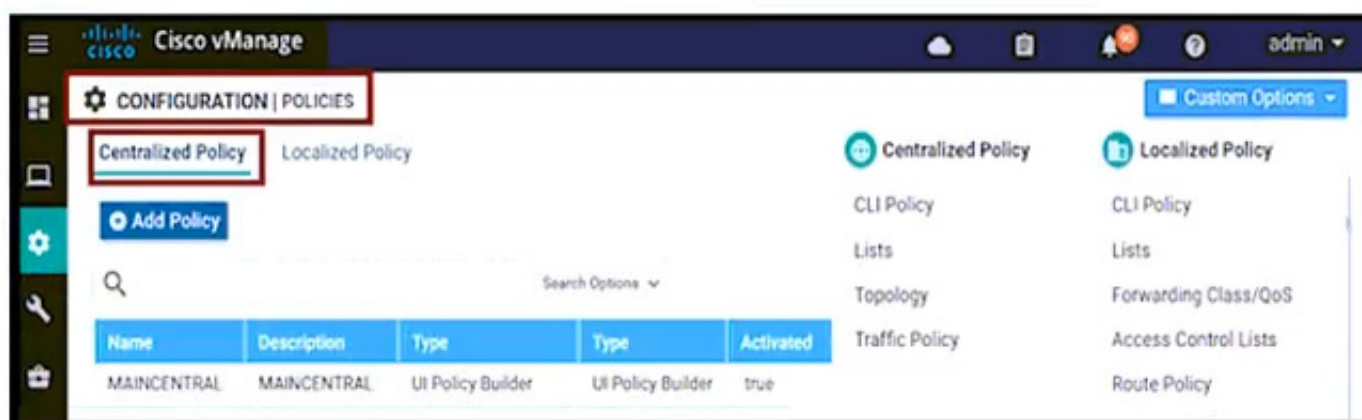A)

B)

C)

D.

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

Answer: A

NEW QUESTION 93
An engineer is configuring the branch office with a 172.16.0.0/16 subnet to use DIA for Internet traffic. All other traffic must flow to the central site or branches using the MPLS circuit Which configuration meets the requirement?

A)
```
data-policy SDW_DIA
  vpn-list VPN172
   sequence 1
    match
     source-ip     172.16.0.0/16
     destination-ip 172.16.0.0/16
    !
   sequence 2
    match
     source-data-prefix-list DIA
    action accept
     nat use-vpn 0
    !
   default-action accept
```

B)
```
data-policy SDW_DIA
  vpn-list VPN172
   sequence 1
    match
     source-ip     172.16.0.0/16
    action accept
    !
   sequence 2
    match
     source-data-prefix-list DIA
    action accept
     nat use-vpn 0
    !
   default-action accept
```

C)

```
data-policy SDW_DIA
 vpn-list VPN172
  sequence 1
   match
    source-ip    172.16.0.0/16
    destination-ip 172.16.0.0/16
   action accept
  !
  sequence 2
   match
    source-data-prefix-list DIA
   action accept
    nat use-vpn 0
   !
  default-action accept
```

D)
```
data-policy SDW_DIA
 vpn-list VPN172
  sequence 1
   match
    source-ip    172.16.0.0/16
    destination-ip 172.16.0.0/16
   !
  sequence 2
   match
    source-data-prefix-list DIA
   action accept
   !
  default-action accept
```

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

Answer: C

NEW QUESTION 96
Which two sets of identifiers does OMP carry when it advertises TLOC routes between WAN Edge routers? (Choose two.)

A. TLOC public and private address, carrier, and preference
B. source and destination IP address, MAC, and site ID
C. system IP address, link color, and encapsulation
D. VPN ID, local site network, and BGP next-hop IP address
E. TLOC public and private address, tunnel ID, and performance

Answer: AC

NEW QUESTION 100
What is an advantage of using auto mode versus static mode of power allocation when an access point is connected to a PoE switch port?

A. It detects the device is a powered device
B. All four pairs of the cable are used
C. Power policing is enabled at the same time
D. The default level is used for the access point

Answer: D

Explanation:
. Use the **auto** setting on any PoE port. The auto mode is the default setting.

https://www.cisco.com/en/US/docs/switches/lan/catalyst3850/software/release/3.2_0_se/multibook/configuratio

NEW QUESTION 103
How must the application-aware enterprise firewall policies be applied within the same WAN Edge router?

A. within and between zones
B. between two VPN tunnels
C. within zone pair
D. between two VRFs

Answer: C

NEW QUESTION 104
Which protocol is used between redundant vSmart controllers to establish a permanent communication channel?

A. IPsec
B. HTTPs
C. DTLS

D. SSL

Answer: C

NEW QUESTION 108
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 110
Which two services are critical for zero touch provisioning on-boarding? (Choose two)

A. SNMP
B. DNS
C. DHCP
D. AAA
E. EMAIL

Answer: BC

NEW QUESTION 111
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 116
What is the threshold to generate a warning alert about CPU or memory usage on a WAN Edge router?

A. 70 to 85 percent
B. 70 to 90 percent
C. 75 to 85 percent
D. 75 to 90 percent

Answer: C

NEW QUESTION 120
Which policy blocks TLOCs from remotes and allows TLOCs from the data center to form hub-and-spoke peering?

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

Answer: C

Explanation:

Centralized Policy

Centralized policy refers to policy provisioned on Cisco vSmart Controllers, which are the centralized controllers in the Cisco SD-WAN overlay network. Centralized policy comprises two components:

- Control policy, which affects the overlay network–wide routing of traffic
- Data policy, which affects the data traffic flow throughout the VPN segments in the network

NEW QUESTION 123
How is an event monitored and reported for an individual device in the overlay network at site ID:S4300T6E43F36?

A. The device sends event notifications to vManage.
B. The device sends notifications to vSmart that sends them to vManage.
C. The device sends a critical alarm of events to vManage.
D. The device sends a critical alarm to vSmart that sends it to vManage.

Answer: A

NEW QUESTION 127
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 129
An engineer must apply the configuration for certificate installation to vBond Orchestrator and vSmart Controller. Which configuration accomplishes this task?

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

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

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

D.
```
vpn 512
 interface eth1
 ip address 199.1.1.1/28
 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 133
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?
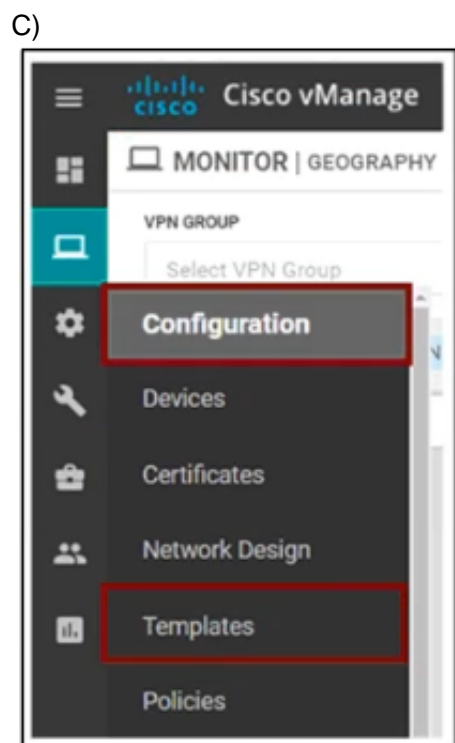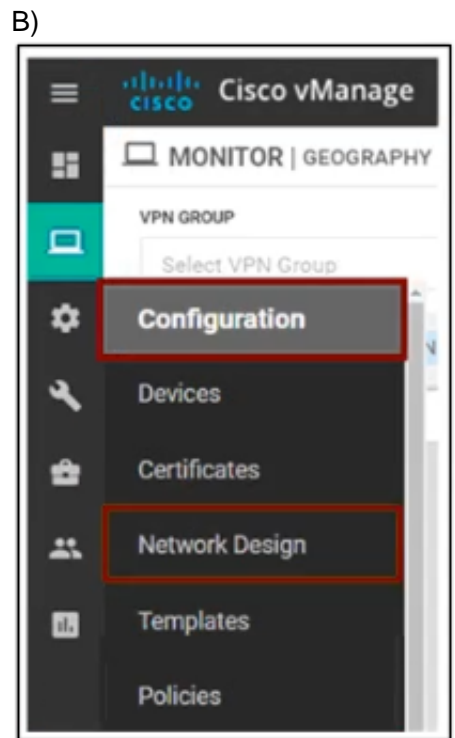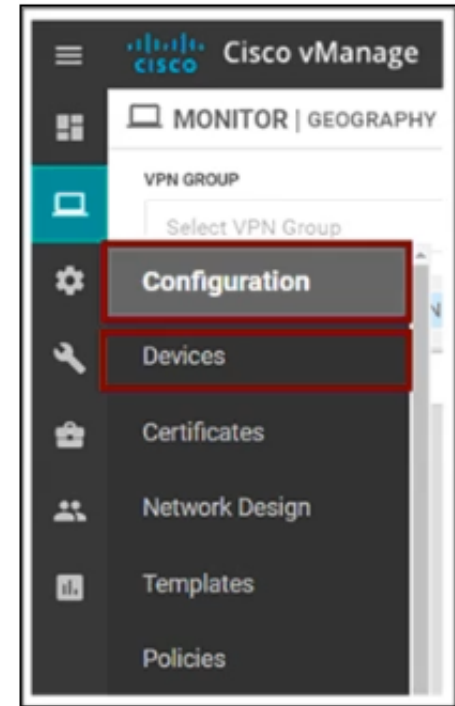
A)

B)

C)

D)

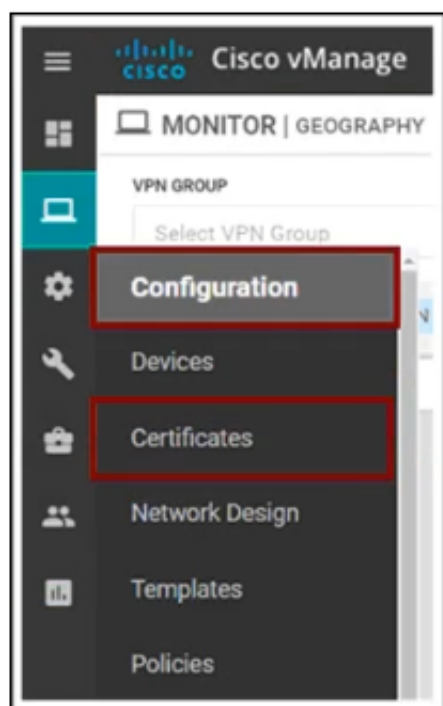A. Option A

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

Answer: A

NEW QUESTION 137
The Cisco SD-WAN engineer is configuring service chaining for a next-generation firewall located at the headquarters. Which configuration creates the service?
A)

B)

C)

D)

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

Answer: C

NEW QUESTION 141
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 142
An engineer is configuring a data policy for packets that must be captured through the policy. Which command accomplishes this task?

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

Answer: B

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

NEW QUESTION 143
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 148
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 149
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 152

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 153
In which file format is a critical severity report downloaded from the MONITOR I ALARM tab in the vManage GUI?

A. .txt
B. .pdf
C. csv
D. xlsx

Answer: C

NEW QUESTION 157
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 159
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 163
What is a benefit of the application aware firewall feature in the Cisco SD-WAN solution?

A. application monitoring
B. application malware protection
C. application visibility
D. control policy enforcement

Answer: C

Explanation:
https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=242

The Application Firewall inspects and blocks traffic based on applications or application-family. This application-aware firewall feature provides the following benefits:

• Application visibility and granular control

NEW QUESTION 166
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 169
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 171
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 172
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 176
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 180
Drag and drop the security terminologies from the left onto the PCI-compliant network features and devices on the right.

transport security		IPS
perimeter security		zone-based firewall and VPNs
segmentation		IPsec VPN
attack prevention		firewall

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, application Description automatically generated

NEW QUESTION 181
What is the main purpose of using TLOC extensions in WAN Edge router configuration?

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

Answer: D

NEW QUESTION 182
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 183
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 186
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 191
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 192
Drag and drop the actions from the left into the correct sequence on the right to create a data policy to direct traffic to the Internet exit.

Apply data policy		Step 1
Enable NAT functionality		Step 2
Create centralized data policy		Step 3
Identify VPN and match criteria		Step 4

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 195
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 199
Refer to the exhibit

```
vpn 1
service netsvc1 interface ipsec1

from-vsmart data-policy _1_ServiceIsertionIPSec
direction from-service
vpn-list 1
  sequence 1
    match
      destination-ip 1.1.1.1/32
    action accept
    set
      service netsvc1
    default-action accept
from-vsmart lists vpn-list 1
vpn 1
```

Which command allows traffic through the IPsec tunnel configured in VPN 0?

A. service local
B. service FW address 1.1.1.1
C. service netsvc1 vpn 1
D. service netsvc1 address 1.1.1.1

Answer: B

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

NEW QUESTION 202
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 205
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 206
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 209
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 211
Which website allows access to visualize the geography screen from vManager using the internet?

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

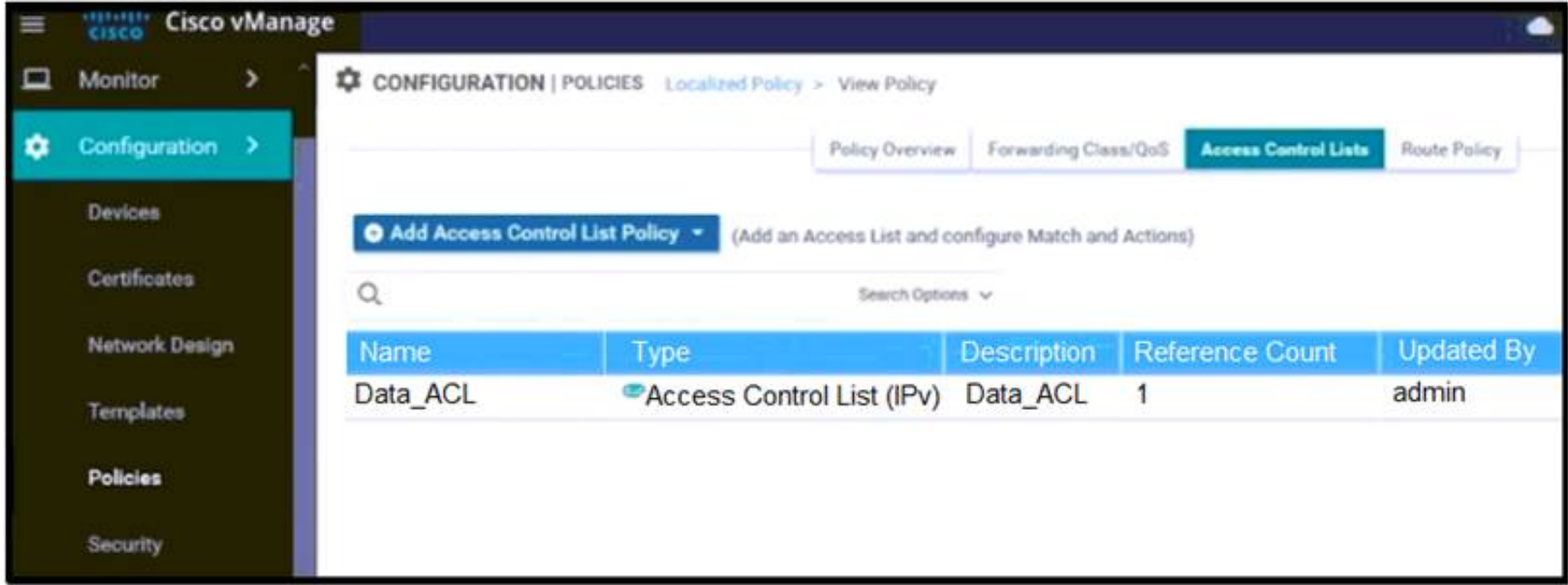**Answer:** A

NEW QUESTION 212
An engineer is applying QoS policy for the transport-side tunnel interfaces to enable scheduling and shaping for a WAN Edge cloud router Which command accomplishes the task?

A. cloud-qos-service-side
B. qos-scheduler QOS_0
C. qos-map QOS
D. rewrite-rule QOS-REWRITE

Answer: C

NEW QUESTION 215

Refer to the exhibit.

An engineer must block FTP traffic coming in from a particular Service VPN on a WAN Edge device Which set of steps achieves this goal?

A. Create a localized policy and add it to (he interface feature template
B. Create a localized policy add it to the device template and add an ACL to the interface feature template
C. Create a prefix tat, add it to the localized policy and add it to the interface feature template
D. Create a localized policy add it to VPN template and add an ACL to the interface feature template

Answer: C

NEW QUESTION 216
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 221
Which protocol is used to measure loss latency, Jitter, and liveliness of the tunnel between WAN Edge router peers?

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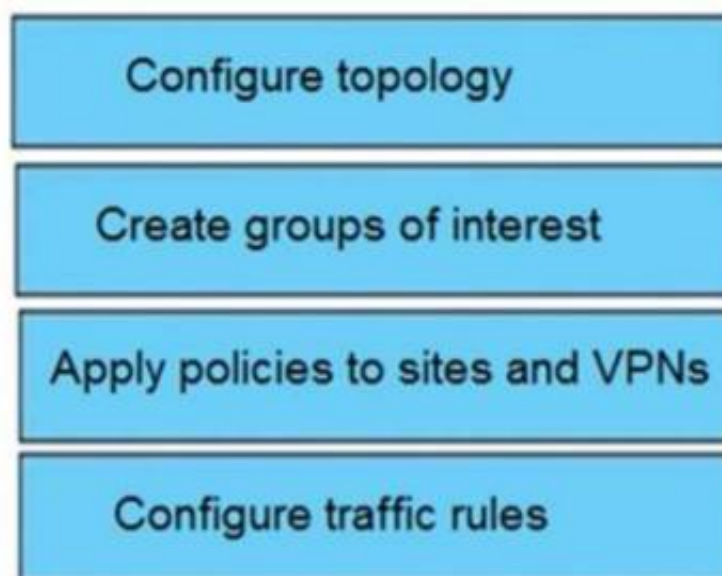B. IP SLA
C. NetFlow
D. BFD

Answer: D

NEW QUESTION 222
Drag and drop the vManage policy configuration procedures from the left onto the correct definitions on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
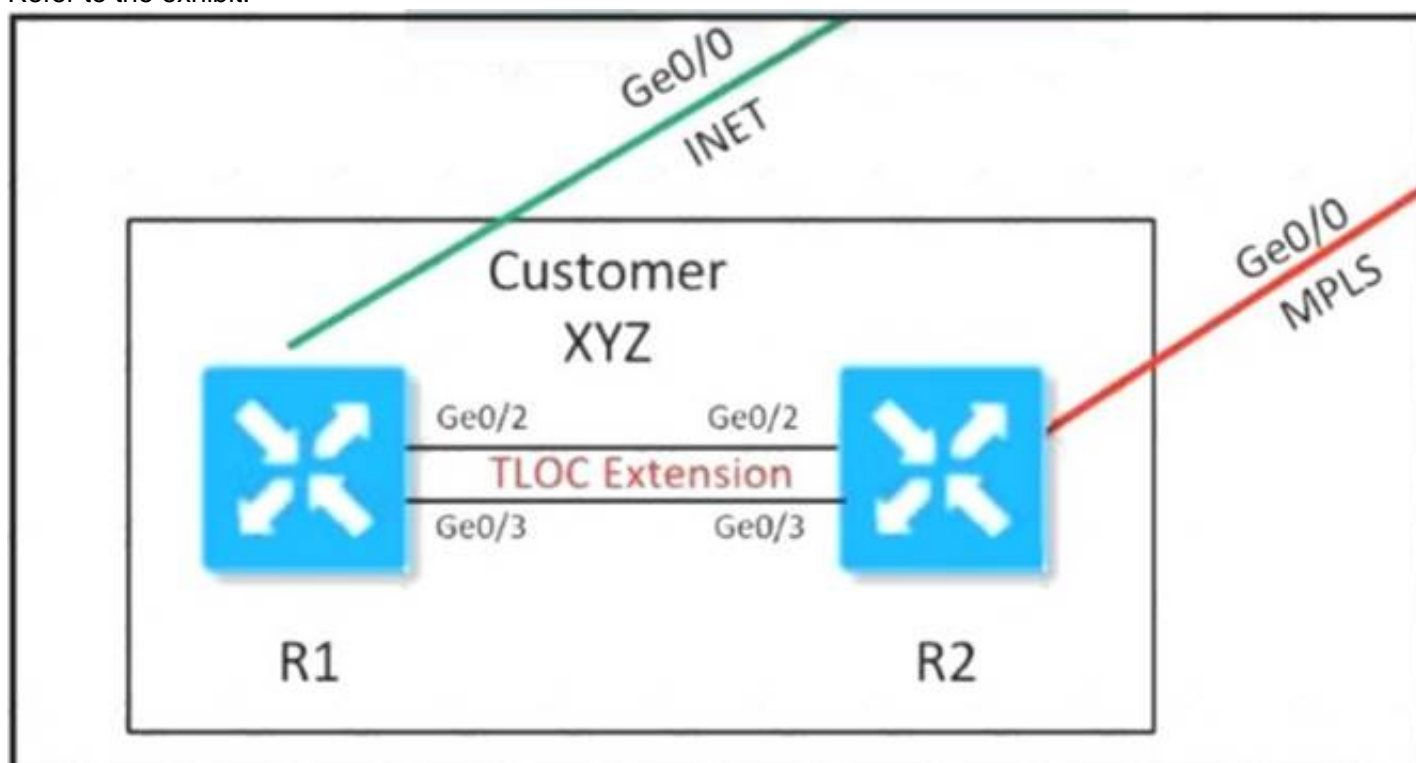
NEW QUESTION 226
How many concurrent sessions does a vManage REST API have before it invalidates the least recently used session if the maximum concurrent session number is reached?

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

Answer: A

NEW QUESTION 230
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?

```
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
```
A.
```
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
```

```
 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

B.
 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

 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
C.  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

 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

D.
 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 233
Which two prerequisites must be met before the Cloud onRamp for IaaS is initiated on vManage to expand to the AWS cloud? (Choose two)

A. Attach the *AmazonCreateVPC* and "Amazon Provision EC2" permission policy to the IAM account
B. Subscribe to the SD-WAN Edge router AMI in the AWS account
C. Attach an OSPF feature template to the AWS cloud Edge router template
D. Attach a device template to the cloud WAN Edge router to be deployed in the AWS
E. Preprovision the transit VPC in the AWS region

Answer: BD

Explanation:

The pre-requisites include verifying you meet the AWS prerequisites, including the necessary AWS credentials and subscriptions to the

Amazon Machine Image (AMI) instances for Cisco SD-WAN Edge routers (Cisco CSR 1000v virtual routers or Cisco vEdge Cloud); verifying

you have available tokens/licenses for at least two additional Cisco SD-WAN Edge Routers within Cisco vManage; and configuring and

deploying device templates for the Cisco SD-WAN Edge routers that will be used within the transit VPCs.

Note that the creation of the customer host VPCs, shown in the figure above, is outside the scope of this document. It is assumed that one or

more customer host VPCs have already been created.

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

NEW QUESTION 237
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 241
Which VPN must be present on at least one interface to install Cisco vManage and integrate it with WAN Edge devices in an overlay network site ID:S4307T7E78F29?

A. VPN 512
B. any VPN number selected
C. services VPN range 0-511
D. VPNO

Answer: D

NEW QUESTION 245
Which protocol Is used by the REST API to communicate with network services in the Cisco SO-WAN network?

A. SSL
B. HTTP
C. iPsec
D. SSM

Answer: B

NEW QUESTION 250
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 251
How are custom application ports monitored in Cisco SD-WAN controllers?

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

Answer: A

NEW QUESTION 256
How is the software managed in Cisco SD-WAN?

A. Software images must be uploaded to vManage through HTTP or FTP
B. Software downgrades are unsupported for vManage
C. Software images must be transferred through VPN 512 or VPN 0 of vManage
D. Software upgrade operation in the group must include vManag
E. vBond, and vSmart.

Answer: A

NEW QUESTION 257
A policy is created to influence routing path in the network using a group of prefixes. What policy application will achieve this goal when applied to a site List?

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

Answer: D

NEW QUESTION 262
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 263
Refer to the exhibit.

vManage	vSmart
system	system
system-ip 10.11.11.1	system-ip 10.11.11.1
host-name vManage	host-name vSmart
site-id 1	site-id 1
clock timezone Europe/London	clock timezone Europe/Rome
vbond 11.1.1.3	vbond 11.1.1.3
organization-name Cisco.com	organization-name Cisco.com
Vpn 0	Vpn 0
Interface eth1	Interface eth1
Ip address 11.1.1.1/24	Ip address 11.1.1.2/24
No shut	No shut
Tunnel-interface	Tunnel-interface
Allow-service all	Allow-service all
Ip route 0.0.0.0/0 11.1.1.254	Ip route 0.0.0.0/0 11.1.1.254
vBond	
system	
system-ip 10.11.11.3	
host-name vManage	
site-id 1	
clock timezone Europe/London	
vbond 11.1.1.1 local	
organization-name Cisco.com	
Vpn 0	
Interface ge0/0	
Ip address 11.1.1.3/28	
No shut	
Tunnel-interface	
Encapsulation ipsec	
Allow-service all	
Ip route 0.0.0.0/0 11.1.1.254	

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

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

Answer: B

Explanation:

Replicators

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

NEW QUESTION 269
Which destination UDP port is used by WAN Edge router to make a DTLS connection with vBond
Orchestrator?

A. 12343
B. 12345
C. 12346
D. 12347

Answer: C

NEW QUESTION 272
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?

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

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

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

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

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

Answer: B

NEW QUESTION 273
Which type of certificate is installed on vManage for a user to access vManage via a web browser?

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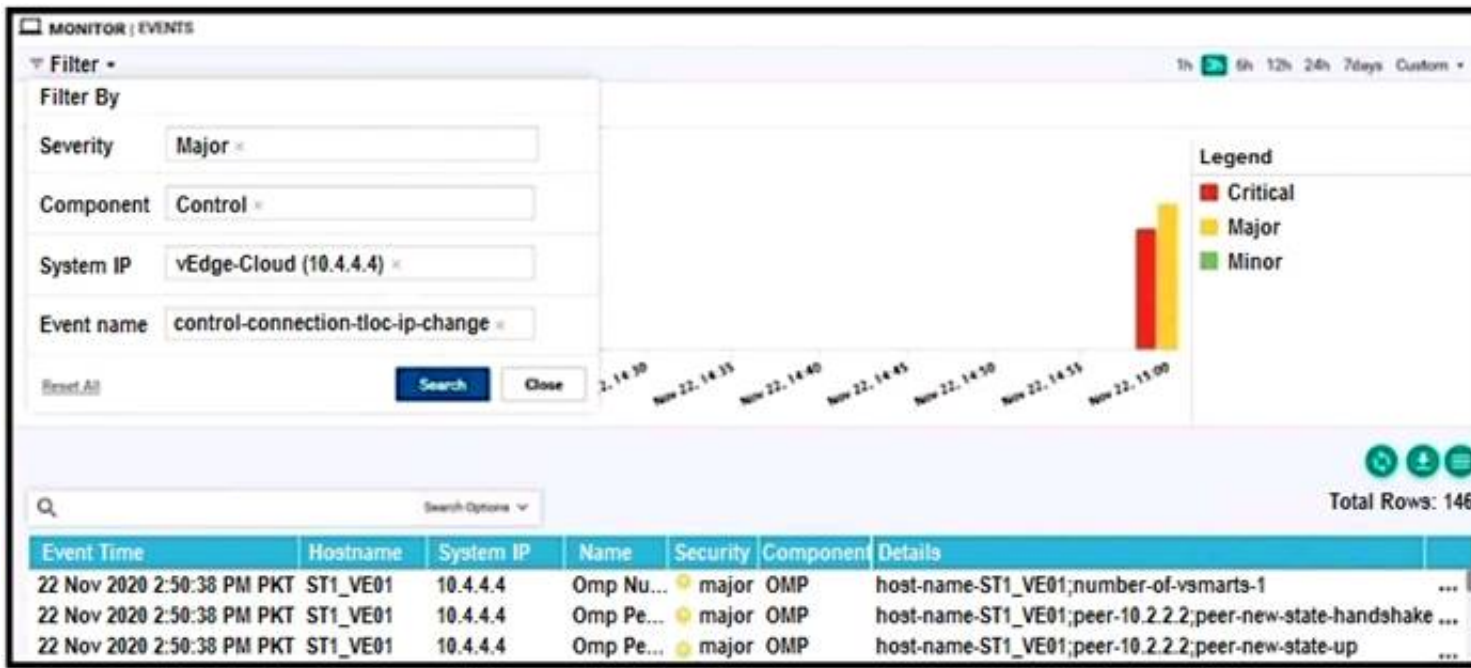C. Controller Certificate
D. Web Server Certificate

Answer: D

NEW QUESTION 277
Refer to the exhibit.

Update Device Template	✕

Variable List (Hover over each field for more information)

System IP	10.4.4.4
Hostname	ST1_VE01
Prefix(vEdge_Default_Gateway)	0.0.0.0/0
Prefix(Mpls_Default_Gateway)	0.0.0.0/0
Address(vEdge_Next_Hop_IP)	10.50.0.102
Address(MPLS_Next_hop_ip)	10.20.0.102
Hostname(Device_host_name)	vEdge-Cloud
Location(Device_location)	US
Latitude(Device_latitude)	40.7128
Longitude(Device_longitude)	74.0060
System IP(Device_system_ip)	10.4.4.4
Site ID(Device_site_id)	1

vManage logs are available for the past few months. A device name change deployed mistakenly at a critical site. How is the device name change tracked by operation and design teams?
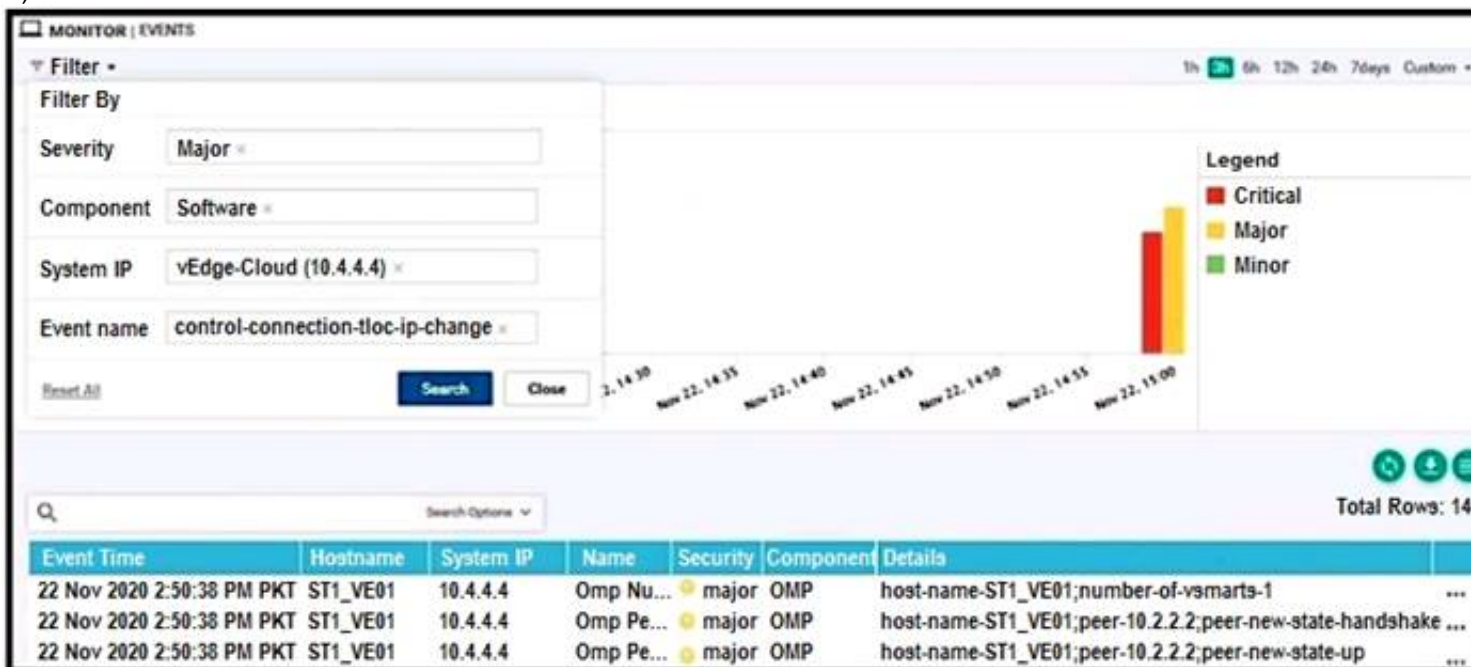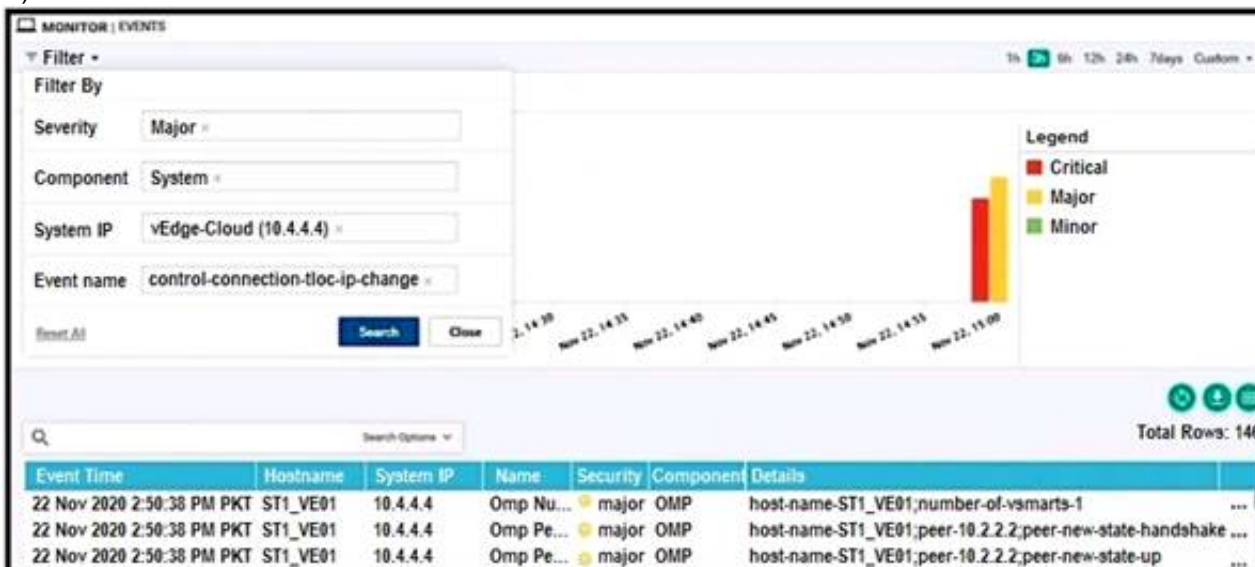A)

A.

B)

C)

D)

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

D. Option D

Answer: D

NEW QUESTION 282
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

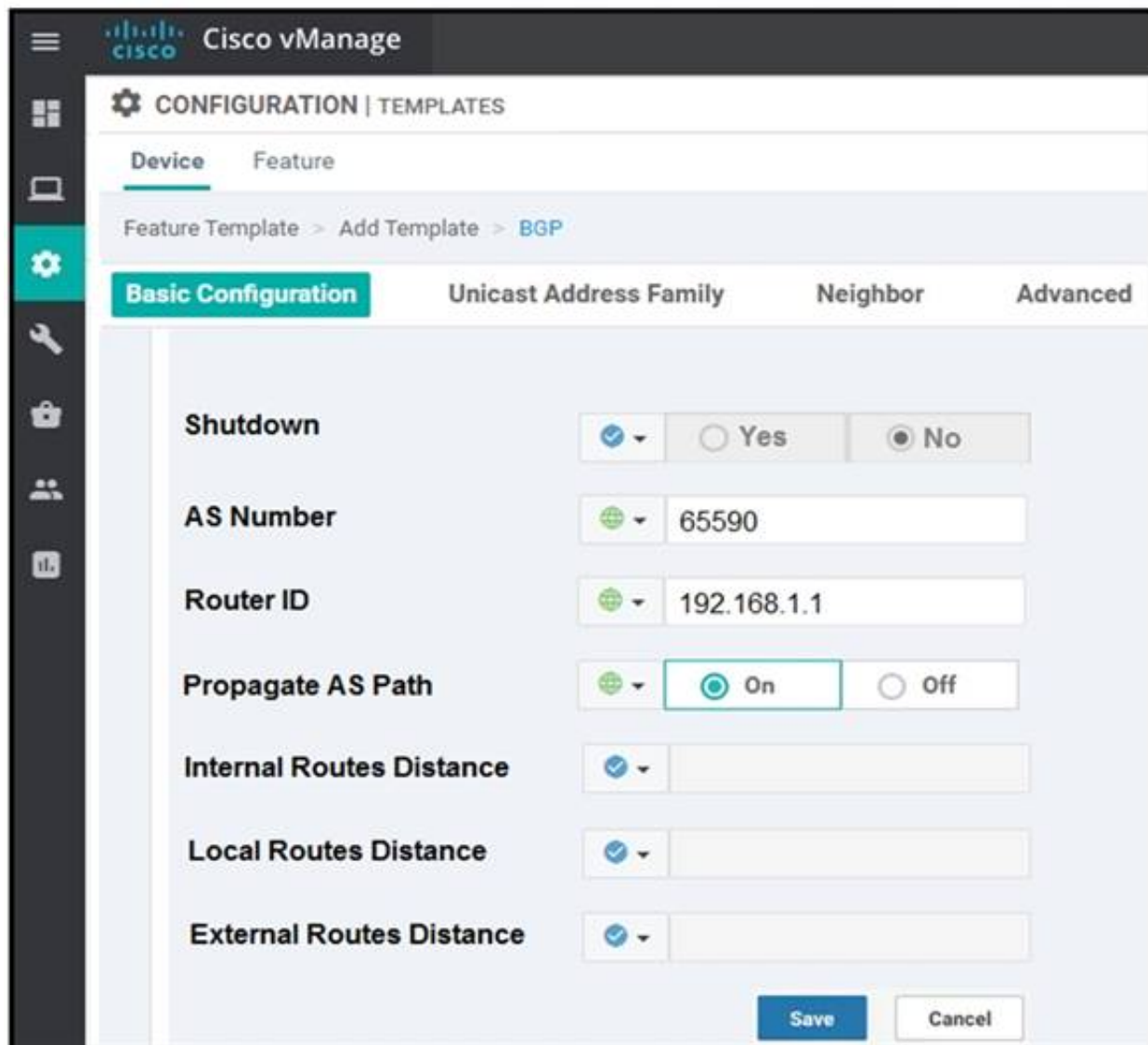**Answer:** AE

Explanation:
https://docs.umbrella.com/umbrella-user-guide/docs/add-a-firewall-policy

NEW QUESTION 284
Refer to the exhibit.

Which configuration value is used to change the administrative distance of iBGP routes to 20?

A. Configure internal Routes Distance to 20
B. Configure Propagate AS Path to off
C. Configure Local Distance to 20
D. Configure External routes distance 20

Answer: C

NEW QUESTION 286
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 289
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 engineering must assign tags to 3 Of its 74 server networks as soon as they are advertised to peers These server network must not be advertised AS which configuration fulfil the requirement?

A)

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

B)

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

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

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

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

Answer: D

NEW QUESTION 291
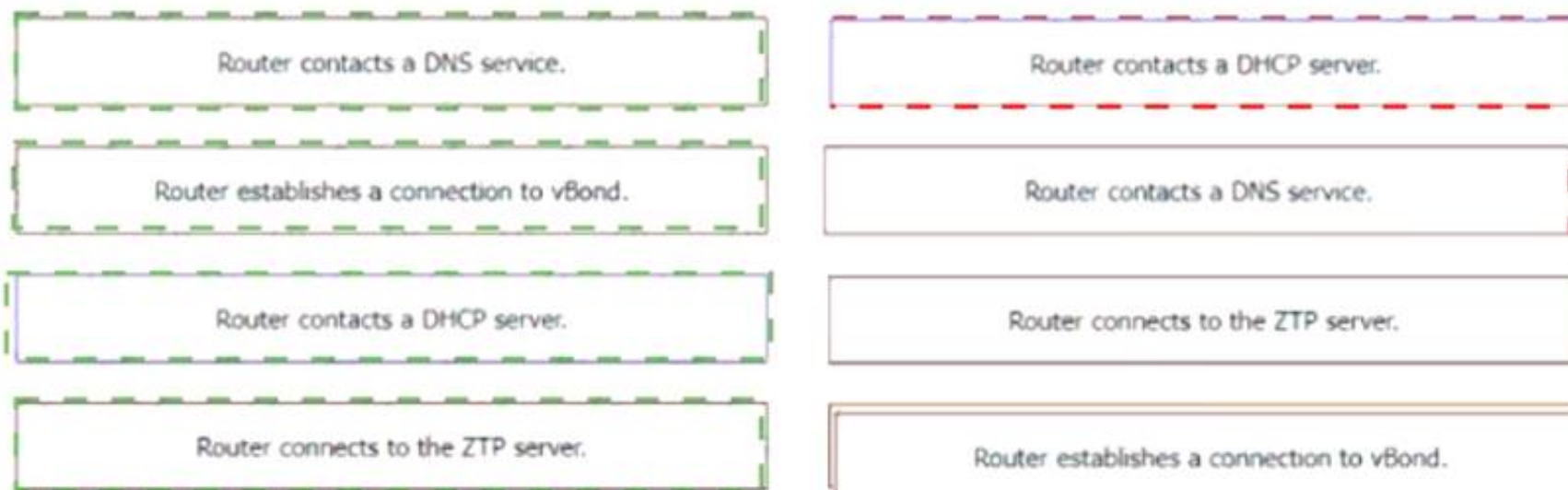Drag and drop the steps from the left into the sequence on the right for a WAN Edge router after powering on for zero touch provisioning.

Router contacts a DNS service.	1
Router establishes a connection to vBond.	2
Router contacts a DHCP server.	3
Router connects to the ZTP server.	4

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Router contacts a DNS service.	Router contacts a DHCP server.
Router establishes a connection to vBond.	Router contacts a DNS service.
Router contacts a DHCP server.	Router connects to the ZTP server.
Router connects to the ZTP server.	Router establishes a connection to vBond.

NEW QUESTION 296
How is a TLOC uniquely identified from a WAN Edge router to the SD-WAN transport network?

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

Answer: A

NEW QUESTION 299
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 300
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 301
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 302
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 306
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 310
Which template configures the out-of-band management VPN?
A)

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

B)

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

C)

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

D)

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

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

Answer: C

NEW QUESTION 314
Which SD-WAN component allows an administrator to manage and store software images for SD-WAN network elements?

A. vGond controllers
B. WAN Edge routers
C. vSman controllers
D. vManage NMS

Answer: D

NEW QUESTION 318
Which protocol is used to measure jitter, loss, and latency on SD-WAN overlay tunnels?

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

Answer: D

NEW QUESTION 319
Which SD-WAN component detects path performance information in the organization to report the issue to the service provider at site ID:S4288T5E44F04?

A. vAnalytics
B. vManage NMS
C. vBond Orchestrator

D. Cisco DNA

Answer: B

NEW QUESTION 321
Drag and drop the policies from the left onto the correct policy types on the right.

	Control Policy
strict hub-and-spoke topology	
perform shaping on traffic	
service firewall insertion	
	Data Policy
prefer voice and video via MPLS link	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Control Policy
strict hub-and-spoke topology
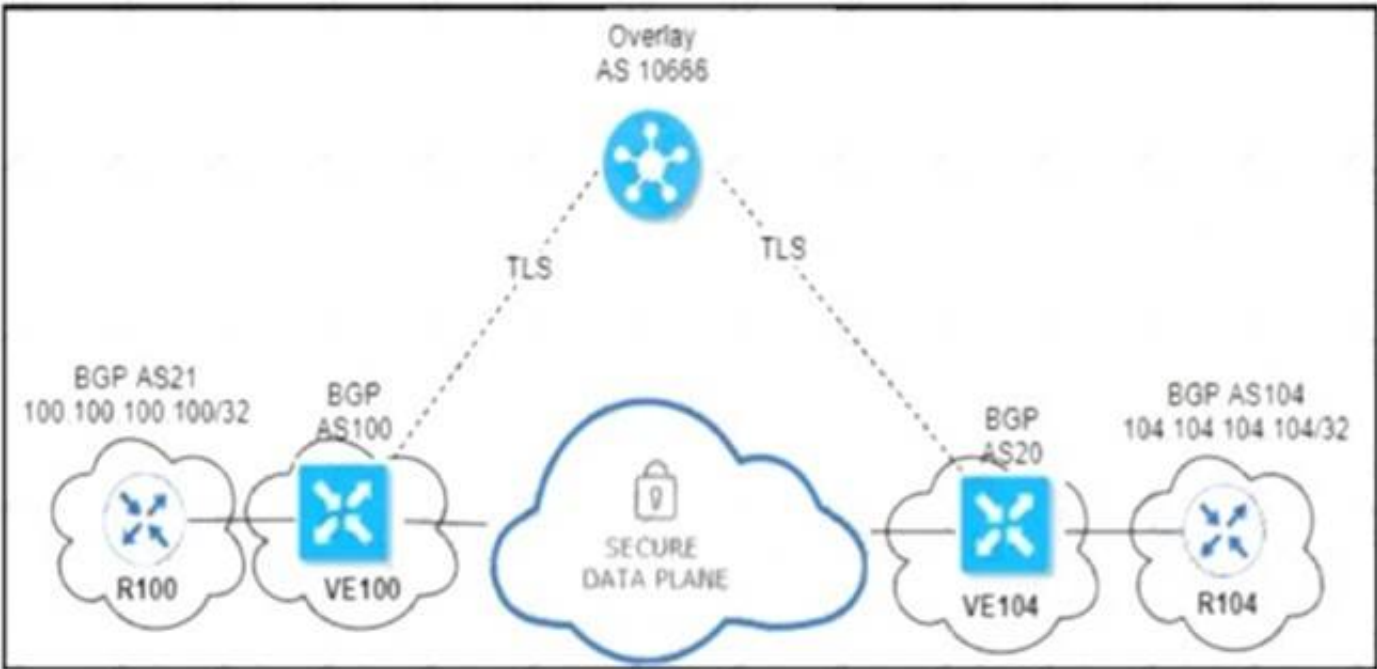
prefer voice and video via MPLS link

Data Policy
perform shaping on traffic

service firewall insertion

NEW QUESTION 323
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 325
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 330
Which on-the-box security feature supported by the Cisco ISR 4451 SD-WAN device and not on vEdge?

A. Cloud Express service
B. Enterprise Firewall with Application Awareness
C. reverse proxy
D. IPsec/GRE cloud proxy

Answer: B

Explanation:
https://www.cisco.com/c/en/us/products/collateral/software/one-wan-subscription/guide-c07-740642.html#Step2

NEW QUESTION 335
Which action is performed during the onboarding process when a WAN Edge router is connected to ZTP server ztp.viptela com?

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

Answer: C

NEW QUESTION 336
Refer to the exhibit

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 337
A WAN Edge device has several service VPNs with no routing protocol configured in the service VPNs The device must be configured so that all connected routes are visible in OMP for VPN 10 Which configuration meets the requirement?
A)

B)

```
omp
 no shutdown
  graceful-restart
  advertise connected
```

C)
```
omp
 no shutdown
  graceful-restart
  redistribute connected
```

D)
```
vpn 10
 name """" Service VPN 10 """"
omp
 advertise connected
```

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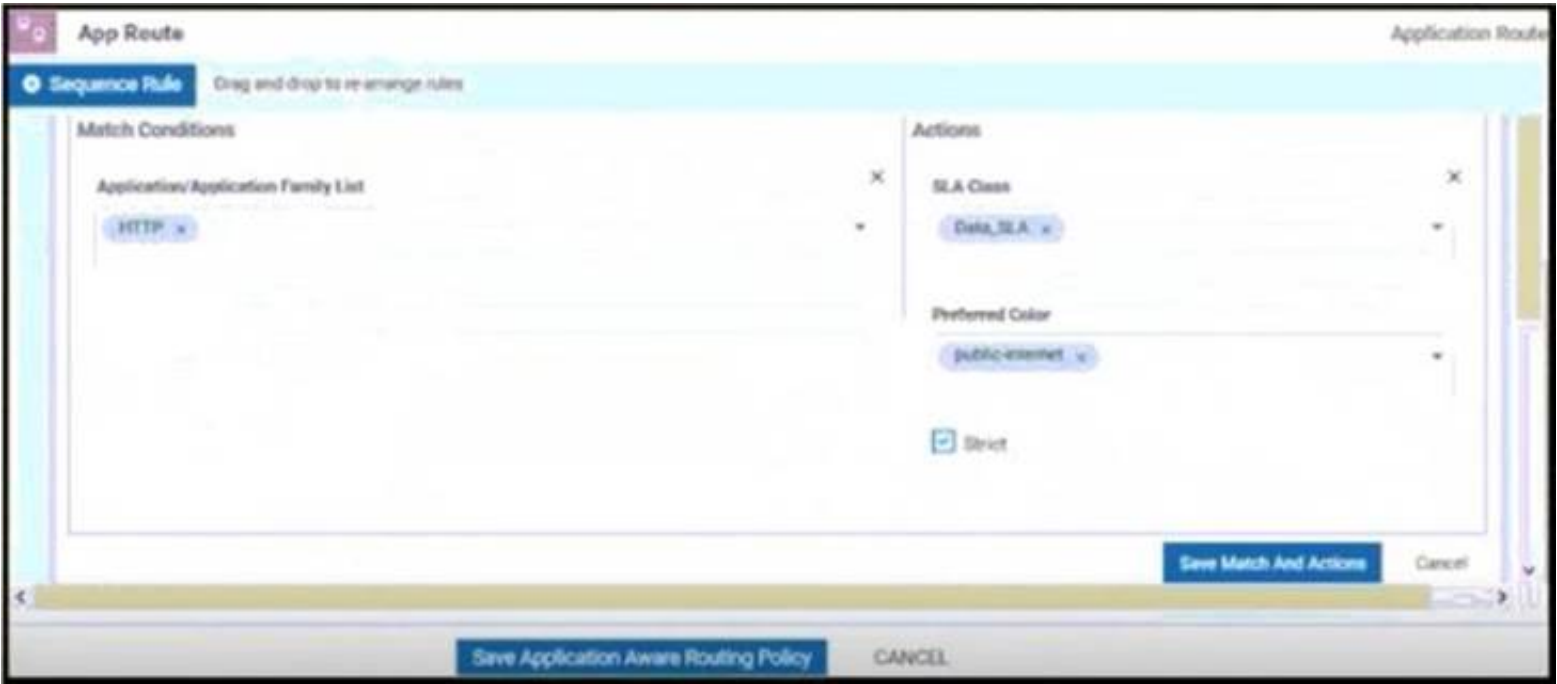B. Option B
C. Option B
D. Option C

Answer: D

NEW QUESTION 341

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

A)
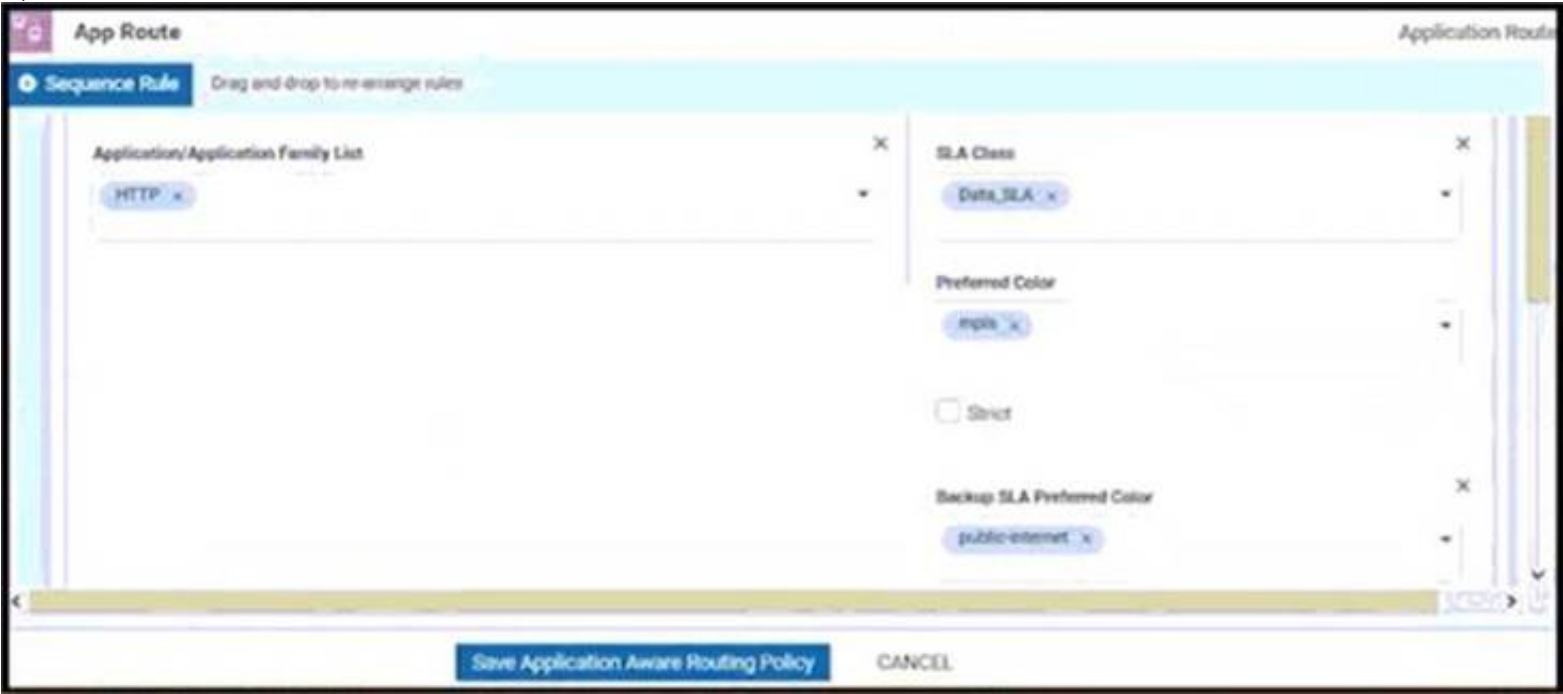

B)

C)

D)

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

Answer: C

NEW QUESTION 343
Drag and drop the definitions from the left to the configuration on the right.

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 betwee
  zones.

Service Chaining

Traffic Flow Monitoring with Cflowd

NEW QUESTION 344
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 346
What happens if the intelligent proxy is unreachable in the Cisco SD-WAN network?

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

Answer: A

NEW QUESTION 347
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
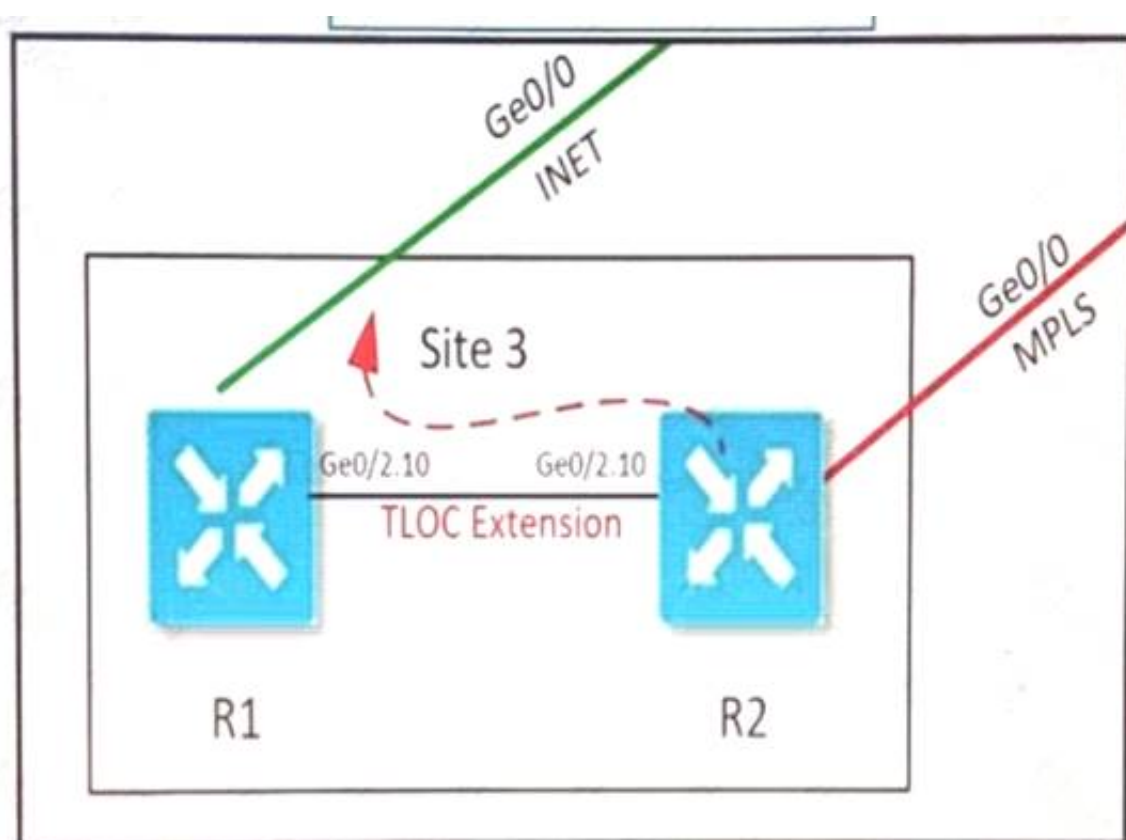

NEW QUESTION 349
The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location 406141498
Which command must be configured on these devices?

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

Answer: A

NEW QUESTION 350
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.
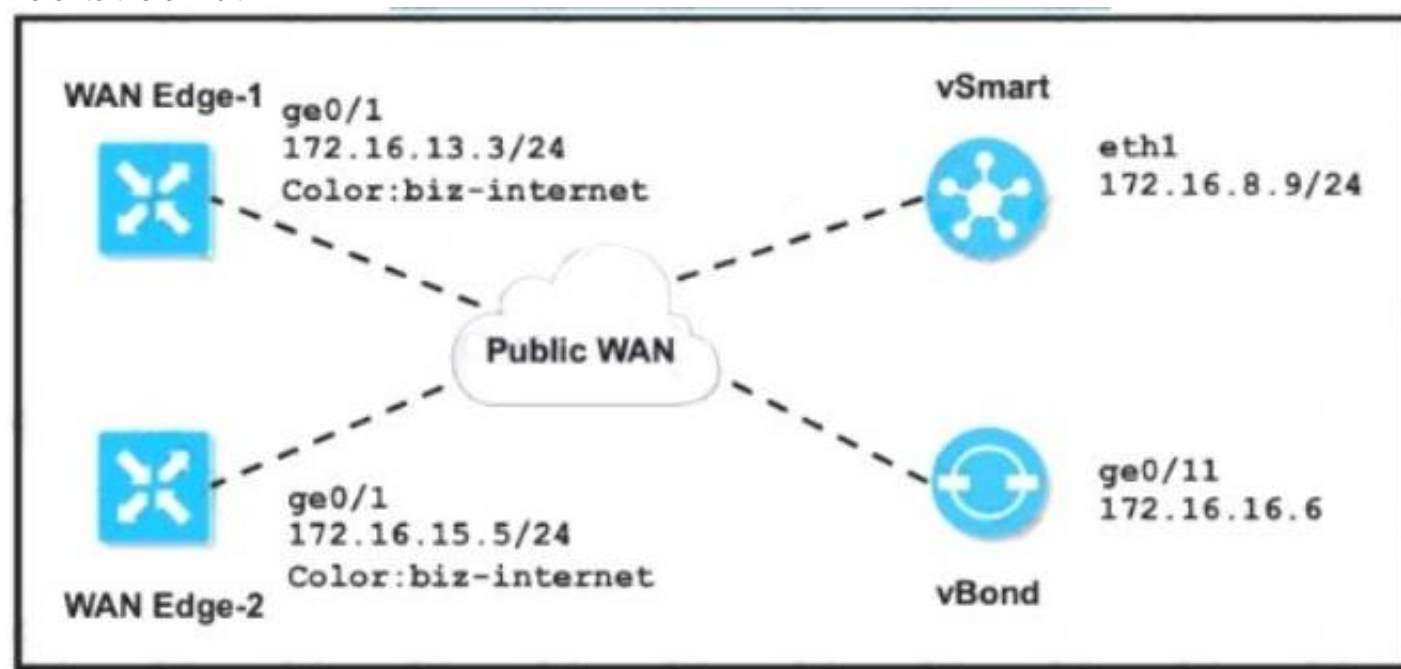
NEW QUESTION 351
REST applications communicate over HTTP or HTTPS to make calls between network devices. Which two HTTPS standard methods are included? (Choose two.)

A. Array
B. DELETE
C. POST
D. Scalar
E. Object

Answer: BC

NEW QUESTION 356
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
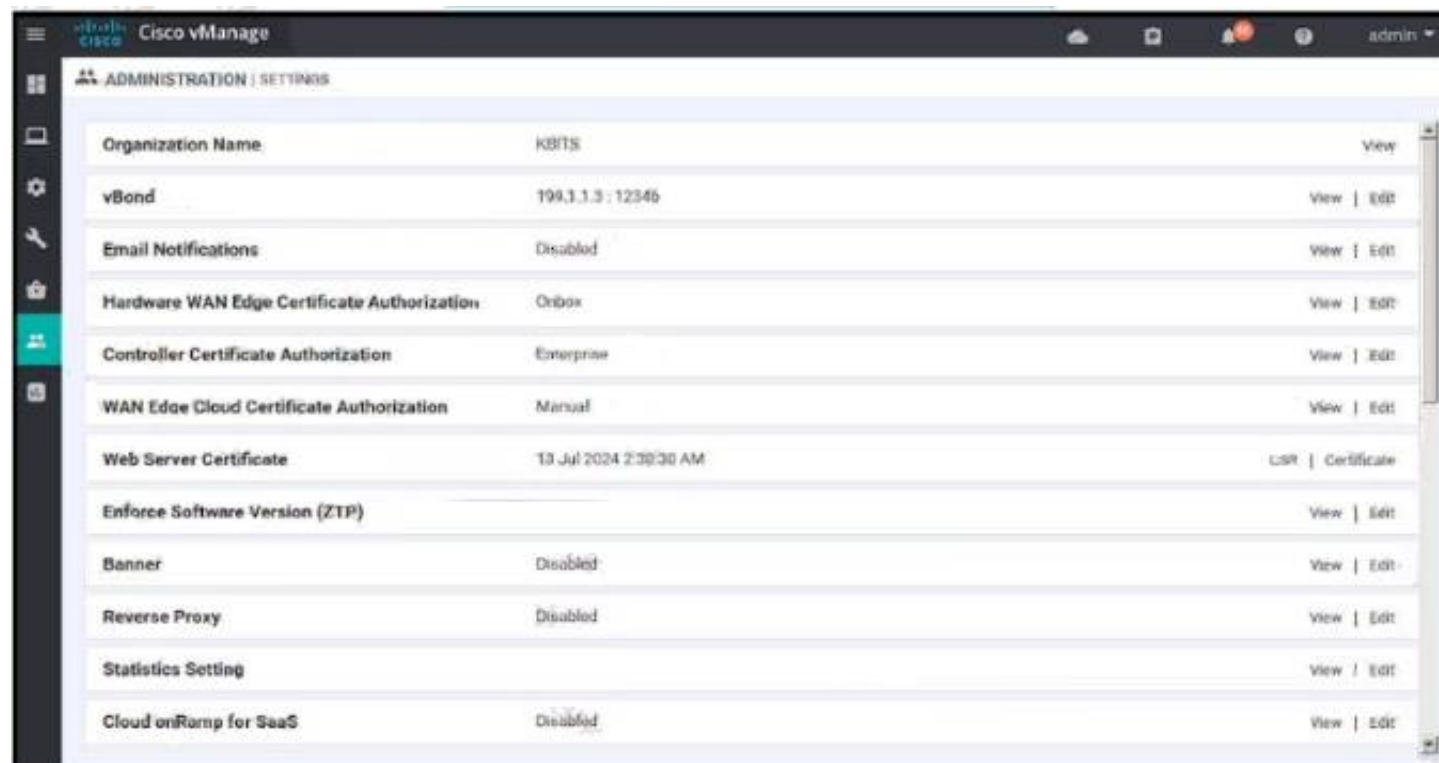B. Option B
C. Option C
D. Option D

Answer: B

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

NEW QUESTION 359

Refer to the exhibit.

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

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

Answer: AE

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

NEW QUESTION 361
Which two products are used to deploy Cisco WAN Edge Router virtual platforms? (Choose two.)

A. HP ProLiant DL360 Generatton10 running HP-UX
B. Cisco ENCS 5000 Series
C. Sun SPARC Node running AIX
D. Cisco UCS
E. Sun Enterprise M4000 Server running Sun Solans

Answer: BD

Explanation:
https://www.cisco.com/c/en/us/products/collateral/routers/5400-enterprise-network-compute-system/datasheet-c

NEW QUESTION 362
An engineer must configure a centralized policy on a site in which all HTTP traffic should use the Public Internet circuit if the loss on this circuit is below 10%. otherwise MPLS should be used Which configuration wizard fulfils this requirement?

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

Answer: A

NEW QUESTION 365
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 370
Which two protocols are supported for software image delivery when images are hosted on a remote server? (Choose two.)

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

Answer: DE

NEW QUESTION 372
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 375
What is the order of operations for software upgrades of Cisco SD-WAN nodes'?

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

Answer: D

NEW QUESTION 376
Which two vRoute attributes should be matched or set in vSmart policies and modified by data policies? (Choose two.)

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

Answer: BC

NEW QUESTION 377
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 380
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