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Exam Code: 300-415
Exam Name: Implementing Cisco SD-WAN Solutions (ENSDWI)



Exam A

QUESTION 1

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

- A. HP ProLiant DL360 Generation 10 running HP-UX
- B. Cisco ENCS 5000 Series
- C. Sun SPARC Node running AIX
- D. Cisco UCS
- E. Sun Enterprise M4000 Server running Sun Solaris

Correct Answer: B, D

Section:

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/routers/5400-enterprise-network-computesystem/datasheet-c78-738512.html>

QUESTION 2

What is the default value for the number of paths advertised per prefix in the OMP feature template?

- A. 4
- B. 8
- C. 12
- D. 16

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Correct Answer: C

Section:

QUESTION 3

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

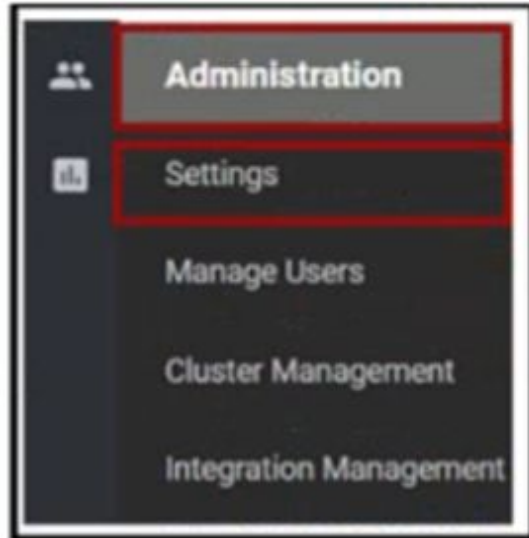
A)



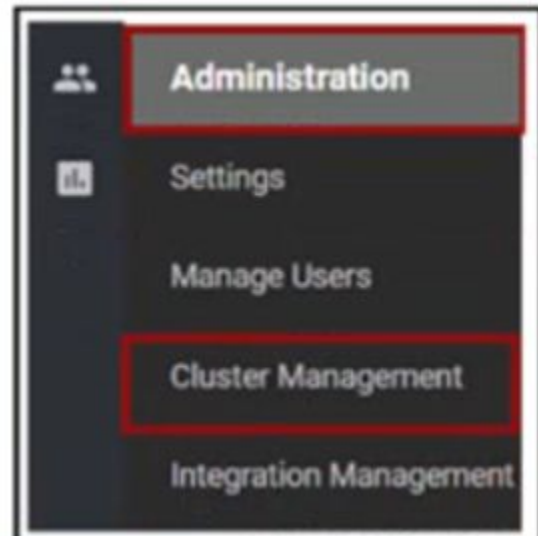
B)



C)



D)



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

Correct Answer: B

Section:

QUESTION 4

Which protocol detects path status (up/down), measures loss/latency/jitter, and measures the quality of the IPsec tunnel MTU?



- A. OMP
- B. IP-SLA
- C. BFD
- D. DTLS

Correct Answer: C

Section:

QUESTION 5

Which two architectural components are part of an SD-WAN high availability vManage cluster? (Choose two.)

- A. WAN Edge router
- B. network configuration system
- C. NAT router
- D. messaging server
- E. application server

Correct Answer: D, E

Section:

Explanation:

In a Cisco SD-WAN high availability (HA) vManage cluster, several components work together to ensure redundancy and availability. The vManage cluster is responsible for network management and configuration and consists of multiple servers that handle different functions.

1. Application Server: This server handles the core functionalities of vManage, including processing user requests, managing configurations, and executing policies. In an HA setup, multiple application servers work together to provide redundancy and load balancing.

1. Messaging Server: The messaging server is responsible for inter-server communication within the cluster. It ensures that configuration changes, policy updates, and other important messages are propagated across all vManage servers in the cluster.

These components work in tandem to maintain the operational integrity and availability of the vManage system in an HA configuration.

3. Reference:

oCisco SD-WAN vManage Cluster Deployment Guide

oCisco SD-WAN High Availability Configuration Documentation

QUESTION 6

Where on vManage does an engineer find the details of control node failure?

- A. Alarms
- B. Events
- C. Audit log
- D. Network

Correct Answer: A

Section:

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/vManage_How-Tos/vmanage-howtobook/m-troubleshooting.html

QUESTION 7

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 16
- D. 0.0.0.0/16 ge 1

Correct Answer: A

Section:

QUESTION 8

Which TCP Optimization feature is used by WAN Edge to prevent unnecessary retransmissions and large initial TCP window sizes to maximize throughput and achieve a better quality?

- A. SEQ
- B. SYN
- C. RTT
- D. SACK

Correct Answer: D

Section:

Explanation:

TCP Optimization

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



QUESTION 9

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

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

Correct Answer: B

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=451>

QUESTION 10

What is a default protocol for control plane connection?

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

Correct Answer: D

Section:

Explanation:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SDWAN_Release_16.3/05Security/02Configuring_Security_Parameters

QUESTION 11

Which logs verify when a device was upgraded?

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

Correct Answer: A

Section:

Explanation:

Reference: https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_18.4/Monitor/Audit_Log

QUESTION 12

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

Correct Answer: D

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-crbook/sdwan-cr-book_chapter_0100.html

QUESTION 13

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

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

Correct Answer: D

Section:

Explanation:

Reference:

<https://www.cisco.com/c/dam/en/us/products/collateral/routers/1000-series-integrated-servicesrouters-isr/q-and-a-c67-739639.pdf>

QUESTION 14

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

Correct Answer: D

Section:

Explanation:

Reference: <https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gsbook/system-overview.html>

QUESTION 15

Which type of route advertisement of OMP can be verified?

- A. OMP, VPN, and origin
- B. Origin, TLOC, and VPN
- C. Origin, TLOC, and service
- D. OMP, TLOC and service

Correct Answer: D

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-2.pdf#page=122>

QUESTION 16

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

```

Correct Answer: B

Section:

QUESTION 17

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

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



Correct Answer: B, C

Section:

Explanation:

Reference: <https://www.grandmetric.com/2020/03/23/zero-touch-provisioning-ztp-cisco-sd-wanwork/>

QUESTION 18

Refer to the exhibit.

PEER TYPE	PEER PROTOCOL	PEER SYSTEM ID	SITE ID	DOMAIN ID	PEER		PUBLIC PORT	PUBLIC IP	CONTROLLER LOCAL	GROUP STATE	
					PRIVATE IP	PRIVATE PORT					
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

Correct Answer: C

Section:

Explanation:

Reference: <https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshootcontrol-connections/ta-p/3813237>

QUESTION 19

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

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

Correct Answer: D

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sdwan-wan-edgionboarding-deploy-guide-2020nov.pdf>

QUESTION 20

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

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



Correct Answer: B

Section:

Explanation:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/vManage_How-Tos/Troubleshooting/Monitor_Alarms

QUESTION 21

Refer to the exhibit.

Hostname	State	System IP	Reachability	Site ID	Device Model	BFD	Control
BRT-EDGE1	✓	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

Correct Answer: A

Section:

QUESTION 22

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

Correct Answer: B

Section:

QUESTION 23

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

Correct Answer: A

Section:

Explanation:

Reference:

https://www.cisco.com/c/dam/global/da_dk/assets/pdfs/cisco_virtual_update_cisco_sdwan_viptela.pdf

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QUESTION 24

Refer to the exhibit.

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

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

- A. A UDP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted
- B. A TCP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped
- C. A UDP packet sourcing from 172.16.10.1 and destined to 172.16.20.1 is dropped.
- D. A TCP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted

Correct Answer: C

Section:

QUESTION 25

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

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

Correct Answer: C

Section:

QUESTION 26

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

Correct Answer: B

Section:

Explanation:

Cisco vSmart Controller

The Cisco vSmart Controller oversees the control plane of the Cisco SD-WAN overlay network, establishing, adjusting, and maintaining the connections that form the Cisco SD-WAN fabric.

Reference:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policiesbook.pdf>

QUESTION 27

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

- A. show omp tllocs
- B. show omp sessions
- C. show omp peers
- D. show omp route

Correct Answer: A

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-crbook/sdwan-cr-book_chapter_0100.html#wp1675287742

QUESTION 28

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

Correct Answer: C

Section:

QUESTION 29

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

Correct Answer: D

Section:

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/TECCRS-2014.pdf>

QUESTION 30

An engineer is troubleshooting a vEdge router and identifies a "DCONFFAIL – DTLS connection failure" message. What is the problem?

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

Correct Answer: D

Section:

Explanation:

<https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-controlconnections/ta-p/3813237#toc-hId-340740870>

QUESTION 31

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

Correct Answer: B

Section:

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/software/one-wan-subscription/guide-c07-740642.html#Step2SoftwareType>

QUESTION 32

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

```

- E. Option A
- F. Option B
- G. Option C
- H. Option D

Correct Answer: C

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-17-2.pdf#page=190>



QUESTION 33

Which configuration changes the packet loss priority from low to highly?

A.

```

policy
policer ccnp-traffic
rate 1000000
burst 20000
plp high

```

B.

```

policy
policer ccnp-traffic
rate 1000000
burst 20000
exceed remark

```

C.

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

D.

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

Correct Answer: B

Section:

Explanation:

we change the PLP from low to high (configured by the **policer exceed remark** command)

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/qos/vEdge-20-x/qosbook/forwarding-qos.html>

QUESTION 34

In which VPN is the NAT operation on an outgoing interface configured for direct Internet access?

- A. 1
- B. 10
- C. 512
- D. 0



Correct Answer: D

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sdwan-dia-deploy-2019nov.pdf>

QUESTION 35

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

Correct Answer: A, C

Section:

Explanation:

Reference:

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-ciscosd-wan-ebook-cte-en.pdf>

QUESTION 36

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

Correct Answer: B

Section:

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 DC's 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.

QUESTION 37

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

Correct Answer: A

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gs-book/managecertificates.html>

QUESTION 38

Which configuration allows users to reach YouTube from a local Internet breakout?

- A.

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```
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.

 **vdumps**

```
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
```

Correct Answer: B

Section:

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>

QUESTION 39

Which command disables the logging of syslog messages to the local disk?

- A. no system logging disk enable
- B. no system logging disk local
- C. system logging disk disable
- D. system logging server remote

Correct Answer: A

Section:

Explanation:

Reference:

https://sdwandocs.cisco.com/Product_Documentation/Software_Features/SDWAN_Release_16.3/02System_and_Interfaces/08Configuring_System_Logging

To disable the logging of syslog messages to the local disk, use the no system logging disk enable command.

QUESTION 40

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

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



Correct Answer: A

Section:

Explanation:

Display all available vEdge routers in the overlay network.

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

QUESTION 41

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

Correct Answer: C

Section:

Explanation:

Reference:

https://sdwandocs.cisco.com/Product_Documentation/Software_Features/Release_18.4/07Policy_Applications/02Service_Chaining/Service_Chaining_Configuration_Examples

QUESTION 42

Refer to the exhibit.

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

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

- A. interface ge0/2.704
ip address 10.113.4.1/30
tunnel-interface
encapsulation ipsec
color mpls restrict
no shutdown
- B. interface ge0/2.704
ip address 10.113.4.2/30
mtu 1496
tloc-extension ge0/1
- C. interface ge0/2.704
ip address 10.113.4.2/30
mtu 1496
tloc-extension ge0/2
- D. interface ge0/2.704
ip address 10.113.4.1/30
tunnel-interface
encapsulation ipsec
color mpls restrict
mtu 1496
tloc-extension ge0/2
no shutdown

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

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D. Option D

Correct Answer: B

Section:

QUESTION 43

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

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

Correct Answer: B, C

Section:

QUESTION 44

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

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

Correct Answer: D

Section:

QUESTION 45

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

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

Correct Answer: C

Section:

QUESTION 46

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

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



E. ISR4000 series

Correct Answer: A, E

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sdwan/white_paper-c11-741071.html

QUESTION 47

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

Correct Answer: B, E

Section:

Explanation:

https://sdwandocs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/01Security_Overview/Data_Plane_Security_Overview

QUESTION 48

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

Correct Answer: B

Section:

QUESTION 49

A voice packet requires a latency of 50 msec. Which policy is configured to ensure that a voice packet is always sent on the link with less than a 50 msec delay?

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



Correct Answer: D

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/ios-xe-17/policiesbook-xe/application-aware-routing.html>

QUESTION 50

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

Correct Answer: C

Section:

Explanation:

Reference:

https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Templates/VPN_Interface_Ethernet

QUESTION 51

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

Correct Answer: A

Section:

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/policiesbook/service-chaining.html>

QUESTION 52

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

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

Correct Answer: B

Section:

QUESTION 53

Which combination of platforms are managed by vManage?

- A. ISR4321, ASR1001, ENCS, ISRv
- B. ISR4351, ASR1002HX, vEdge2000, vEdge Cloud
- C. ISR4321, ASR1001, Nexus, ENCS
- D. ISR4351, ASR1009, vEdge2000, CSR1000v

Correct Answer: A

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sdwan/nb-06-sw-defined-wan-faq-cte-en.pdf>

QUESTION 54

Which scheduling method is configured by default for the eight queues in the cloud vEdge router1?

- A. low latency queue
- B. priority queue
- C. weighted random early detection
- D. weighted round robin

Correct Answer: D

Section:

Explanation:



Reference:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SDWAN_Release_16.3/06Policy_Basics/05Localized_Data_Policy/Configuring_Localized_Data_Policy_for_IPv4

QUESTION 55

Which platforms are managed by a single vManage dashboard?

- A. ISR4351, ASR1002HX, vEdge2000, vEdge Cloud
- B. ISR4321, ASR1001, Nexus, ENCS
- C. ISR4321, ASR1001, ENCS, ISRv
- D. ISR4351, ASR1009, vEdge2000, CSR1000v

Correct Answer: C

Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sdwan/nb-06-sw-defined-wan-faq-cte-en.pdf>

QUESTION 56

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

- A. System Status
- B. Troubleshooting
- C. Real Time
- D. Events

Correct Answer: B

Section:

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2018/pdf/LABEN-2010-LG.pdf>

• Using Cisco vManage:

View the service chain path on the Traceroute page (Monitor > Network > spoke device > Troubleshooting > Connectivity > Trace Route). Enter the destination IP, VPN, and source interface for the desired path.



QUESTION 57

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

Correct Answer: C

Section:

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

QUESTION 58

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

Correct Answer: D

Section:

QUESTION 59

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

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

Correct Answer: C

Section:

Explanation:

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

QUESTION 60

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

Correct Answer: B

Section:

QUESTION 61

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

Correct Answer: A, B

Section:

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: <ul style="list-style-type: none"> SHA-1 message digest SHA-256 message digest <p>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.</p> <p>Note MD5 authentication protocol is deprecated for Cisco SD-WAN Release 20.3.2 and later releases.</p>

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

QUESTION 62

In the Cisco SD-WAN solution, vSmart controller is responsible for which two actions? (Choose two.)

- A. Distribute crypto key information among vEdge routers
- B. Configure and monitor vEdge routers.
- C. Authenticate and authorize vEdge routers.
- D. Distribute the IP address from DHCP server to vEdge routers.
- E. Distribute route and policy information via OMP.

Correct Answer: A, E

Section:

Explanation:

vSmart controller - This software-based component is responsible for the centralized control plane of the SD-WAN network. It maintains a secure connection to each WAN Edge router and distributes routes and policy information via the Overlay Management Protocol (OMP), acting as a route reflector. It also orchestrates the secure data plane connectivity between the WAN Edge routers by reflecting crypto key information originating from WAN Edge routers, allowing for a very scalable, IKE-less architecture.

QUESTION 63

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

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

Correct Answer: B

Section:

Explanation:

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

QUESTION 64

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

Correct Answer: A

Section:

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.

QUESTION 65

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

Correct Answer: C

Section:

Explanation:

https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_17.1/vManage_NMS_Product_Help

The logo for Vdumps.com, featuring a stylized orange 'V' followed by the word 'dumps' in a grey, lowercase sans-serif font.

QUESTION 66

A network administrator is bringing up one WAN Edge for branch connectivity. Which types of tunnels form when the WAN edge router connects to the SD-WAN fabric?

- A. DTLS or TLS tunnel with vBond controller and IPsec tunnel with vManage controller.
- B. DTLS or TLS tunnel with vBond controller and IPsec tunnel with other WAN Edge routers.
- C. DTLS or TLS tunnel with vSmart controller and IPsec tunnel with other Edge routers.
- D. DTLS or TLS tunnel with vSmart controller and IPsec tunnel with vBond controller.

Correct Answer: C

Section:

Explanation:

- The WAN Edge routers form a permanent Datagram Transport Layer Security (DTLS) or Transport Layer Security (TLS) control connection to the vSmart controllers and connect to both of the vSmart controllers over each transport. The routers also form a permanent DTLS or TLS control connection to the vManage server, but over just one of the transports. The WAN Edge routers securely communicate to other WAN Edge routers using IPsec tunnels over each transport. The Bidirectional Forwarding Detection (BFD) protocol is enabled by default and runs

QUESTION 67

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

Correct Answer: B

Section:

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.**

QUESTION 68

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

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

Correct Answer: B

Section:

QUESTION 69

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

Correct Answer: D

Section:

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).

QUESTION 70

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

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

Correct Answer: A

Section:

Explanation:

Cisco's Enterprise Firewall with Application Awareness uses a flexible and easily understood zone-based model for traffic inspection, compared to the older interface-based model.
A firewall policy is a type of localized security policy that allows stateful inspection of TCP, UDP, and ICMP data traffic flows.

QUESTION 71

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

Correct Answer: A

Section:

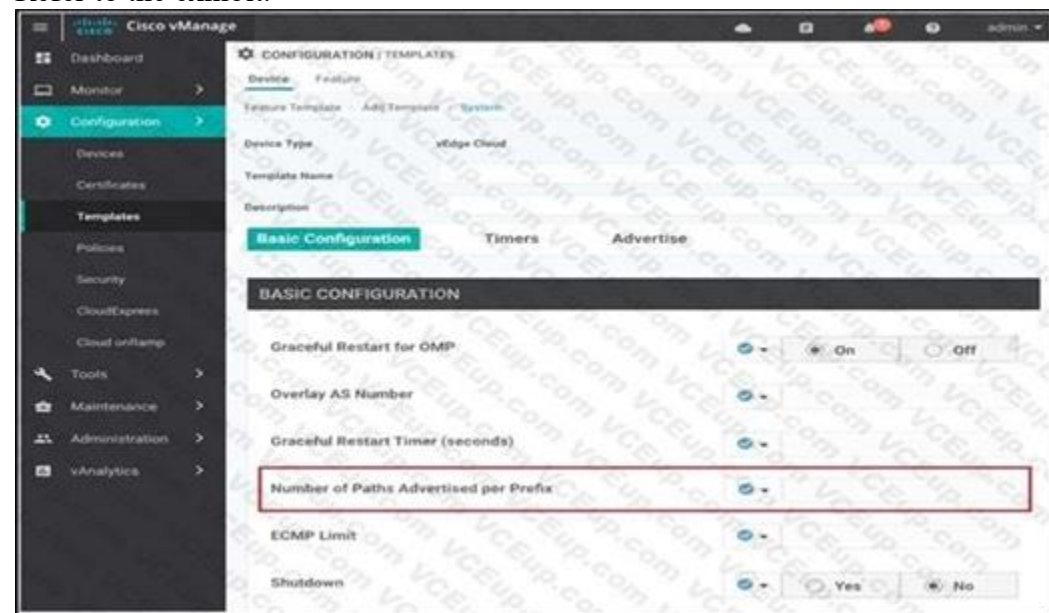
Explanation:

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.



QUESTION 72

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?

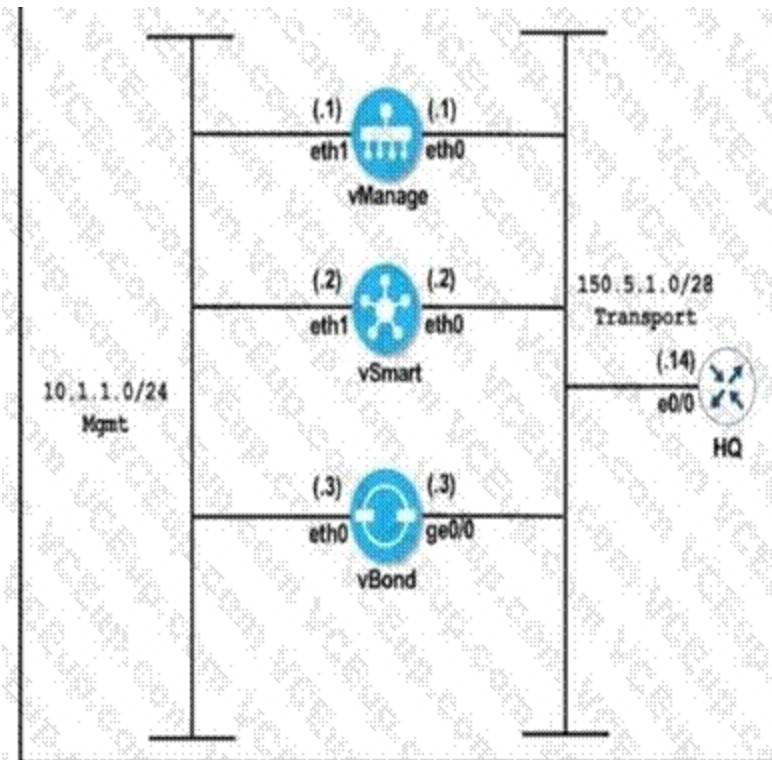
- A. 2

- B. 3
- C. 5
- D. 10

Correct Answer: D
Section:

QUESTION 73
Refer to the exhibit.





```

vManage
system
system-ip 10.10.10.101
host-name vManage
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface eth0
ip address 150.5.1.1/28
no shut
tunnel-interface
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit

vSmart
system
system-ip 10.10.10.102
host-name vSmart
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface eth0
ip address 150.5.1.2/28
no shut
tunnel-interface
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit

vBond
system
system-ip 10.10.10.103
host-name vBond
site-id 1
clock timezone Europe/London
vbond 150.5.1.3
organization-name Cisco.com
!
vpn 0
interface ge0/0
ip address 150.5.1.3/28
no shut
tunnel-interface
encapsulation ipsec
allow-service all
ip route 0.0.0.0/0 150.5.1.14
!
commit

```



An engineer is troubleshooting an issue where vManage and vSmart have a problem establishing a connection to vBond. Which action fixes the issue?

- A. Reconfigure the vBond command on the vBond as vBond 150.5.1.3 local
- B. Configure the tunnel interface on all three controllers with a color of transport
- C. Remove the encapsulation IPsec command under the tunnel interface of vBond.
- D. Configure encapsulation as IPsec under the tunnel interface of vManage and vSmart

Correct Answer: A

Section:

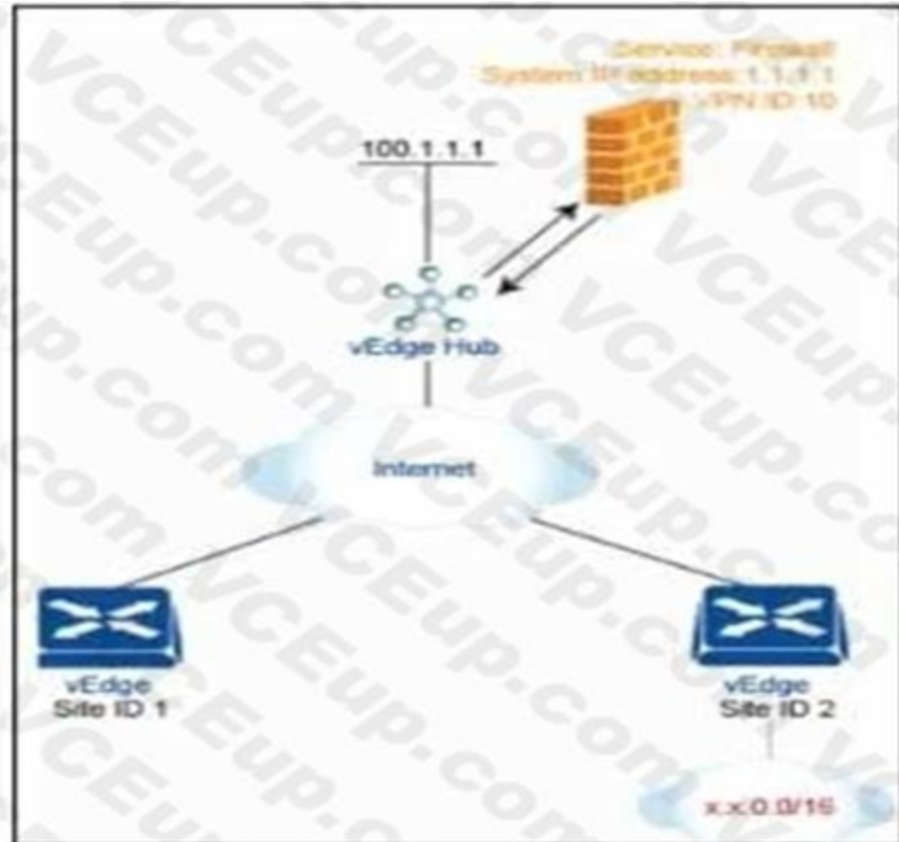
Explanation:

Configure the IP address of Cisco vBond Orchestrator. Cisco vBond Orchestrator's IP address must be a public IP address, to allow all Cisco vEdge devices in the overlay network to reach Cisco vBond Orchestrator:
vBond(config-system) #vbond ip-address local

In Releases 16.3 and later, the address can be an IPv4 or an IPv6 address. In earlier releases, it must be an IPv4 address. A vBond orchestrator is effectively a vEdge router that performs only the orchestrator functions. The local option designates the device to be Cisco vBond Orchestrator, not a vEdge router. Cisco vBond Orchestrator must run on a standalone virtual machine (VM) or hardware router; it cannot coexist in the same device as a software or hardware vEdge router.

QUESTION 74

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
```

Correct Answer: B

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policiesbook/service-chaining.html>

QUESTION 75

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

Correct Answer: D

Section:

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

QUESTION 76

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

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

Correct Answer: B

Section:

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.

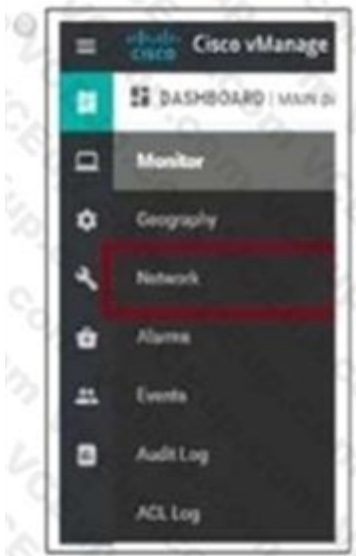
QUESTION 77

Company ABC has decided to deploy the controllers using the On-Prem method. How does the administrator upload the WAN Edge list to the vManage?

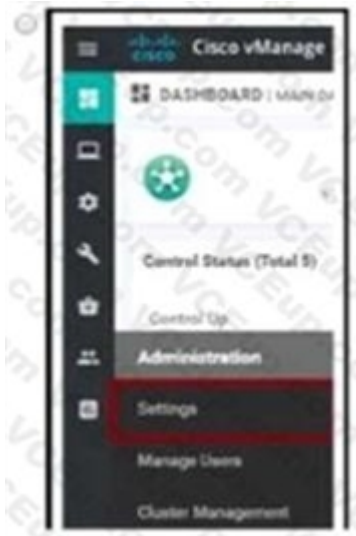
A.



B.



C.



D.



Correct Answer: D

Section:

Explanation:

https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices

 **vdumps**

QUESTION 78

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

Correct Answer: A

Section:

Explanation:

https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/Cisco_Cloud_onRamp_for_IaaS_AWS_Version2.html#_Toc54023359

QUESTION 79

Refer to the exhibit.

LOCAL	PEER REMOTE	PEER REPEAT	PEER REPEAT	SITE	DOMAIN	PEER PRIVATE	PEER PUBLIC	PEER PUBLIC
INSTANCE REMOTE	TYPE COLOR	PROTOCOL STATE	SYSTEM IP ERROR	ID ERROR	ID COUNT	PRIVATE IP DOWNTIME	PORT	PUBLIC IP PORT
0 default	vsmart	tis	1.1.1.3 DCONFAIL	100	1 10001	100.1.1.3 2020-01-01T10:01:20+0000	23156	100.1.1.3 23156

The control connection is failing. Which action resolves the issue?

- A. import vSmart in vManager
- B. Validate the certificates authenticity on vSmart
- C. Upload the WAN Edge list on vManage.
- D. Restore the reachability to the vSmart



Correct Answer: D

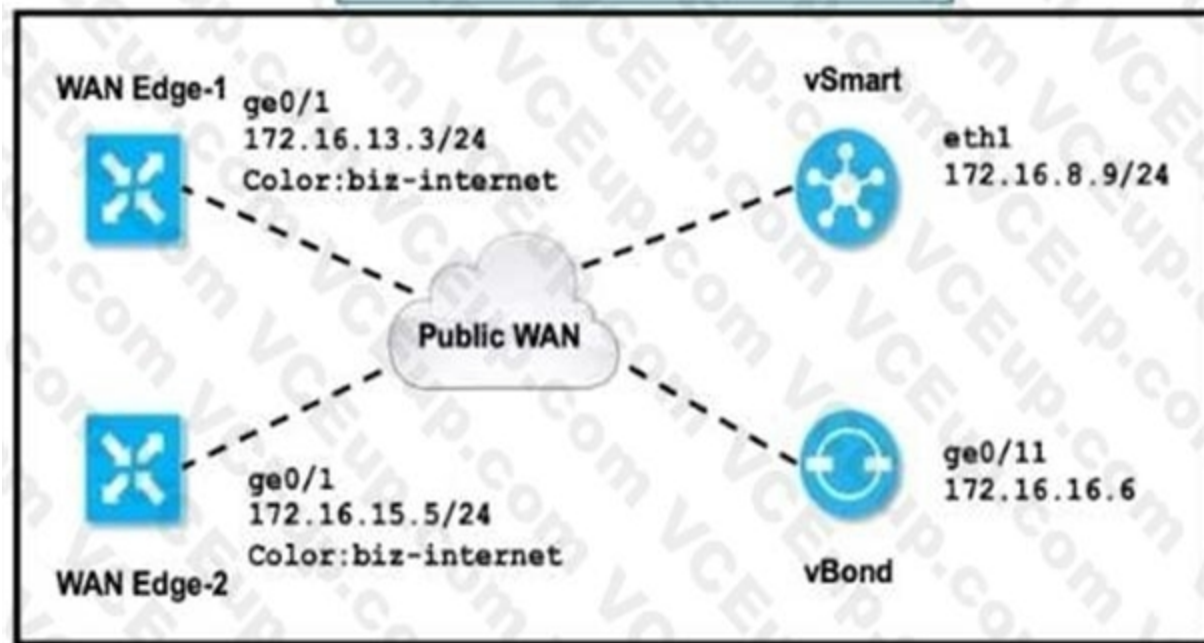
Section:

Explanation:

<https://www.cisco.com/c/en/us/support/docs/routers/sd-wan/214509-troubleshoot-controlconnections.html>

QUESTION 80

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

Correct Answer: B

Section:

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SDWAN_Release_16.3/02System_and_Interfaces/07Network_Interface_Configuration_Examples

QUESTION 81

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



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

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

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

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

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

Correct Answer: A

Section:

Explanation:

https://sdwandocs.cisco.com/Product_Documentation/vManage_Help/Release_17.2/Configuration/Templates/OMP

QUESTION 82

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

Correct Answer: B

Section:

Explanation:

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

QUESTION 83

A bank is looking for improved customer experience for applications and reduce overhead related to compliance and security. Which key feature or features of the Cisco SD-WAN solution will help the bank to achieve their goals?



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

Correct Answer: B

Section:

Explanation:

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-ciscosd-wan-ebook-cte-en.pdf>

QUESTION 84

Refer to exhibit.

PEER PEER INSTANCE COLOR	PEER TYPE STATE	PEER PRIVATE PROTOCOL	PEER SYSTEM IP ERROR	SITE SYSTEM IP ERROR	DOMAIN PUBLIC ID COUNT	DOMAIN PRIVATE IP DOWNTIME	LOCAL PORT	REMOTE PUBLIC IP	REPEAT PORT REMOTE
0	vbond	dsis	0.0.0.0	9	0	0	192.168.0.231	12345	192.168.0.231 12345 default
tear_down									
2019-06-01 29:04:32+0200									

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

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



Correct Answer: C, D

Section:

Explanation:

<https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-controlconnections/ta-p/3813237>

QUESTION 85

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

Correct Answer: B

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/configcmd.html#wp4217152133>

QUESTION 86

Refer to the exhibit.



Vdumps

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

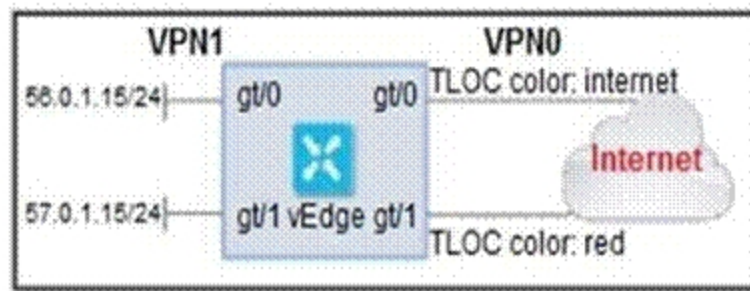
Correct Answer: A, E

Section:

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/cisco-sd-wan-certificatesdeploy-2020aug.pdf>

QUESTION 87



Refer to the exhibit. The ge0/0 interface connects to a 30-MB link. A network administrator wants to always have 10 MB available for high priority traffic. When lower-priority traffic bursts exceed 20 MB.

Traffic should be redirected to the second WAN interface ge0/1. Which set of configurations accomplishes this task?

A.

```

policy
  policer bursty-traffic
    rate 100000
    burst 20000
    exceed continue
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
      policer bursty-traffic
    default-action accept
  
```

B.

```

policy
  policer bursty-traffic
    rate 10
    burst 20
    exceed remark
  access-list policer-bursty-traffic
    sequence 10
    match
      source-ip 56.0.1.0/24
    action accept
      policer bursty-traffic
    default-action accept
  
```

C.



```
policy
  policer bursty-traffic
    rate 10000
    burst20000
    exceed drop
  access-list policer-bursty-traffic
    sequence 10
      match
        source-ip 56.0.1.0/24
      action accept
        policer bursty-traffic
      default-action accept
```

D.

```
policy
  policer bursty-traffic
    rate 1000000
    burst 20000
    exceed remark
  access-list policer-bursty-traffic
    sequence 10
      match
        source-ip 56.0.1.0/24
      action accept
        policer bursty-traffic
      default-action accept
```



Correct Answer: D

Section:

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-4.pdf#page=546>

QUESTION 88

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.

Correct Answer: C, D

Section:

Explanation:

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

QUESTION 89

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

- A. local data policy

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

Correct Answer: A

Section:

Explanation:

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

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policiesbook/Policy-basics.html>

QUESTION 90

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

Correct Answer: D

Section:

Explanation:

https://www.cisco.com/en/US/docs/switches/lan/catalyst3850/software/release/3.2_0_se/multibook/configuration_guide/b_consolidated_config_guide_3850_chapter_011010.html

QUESTION 91

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

Correct Answer: B

Section:

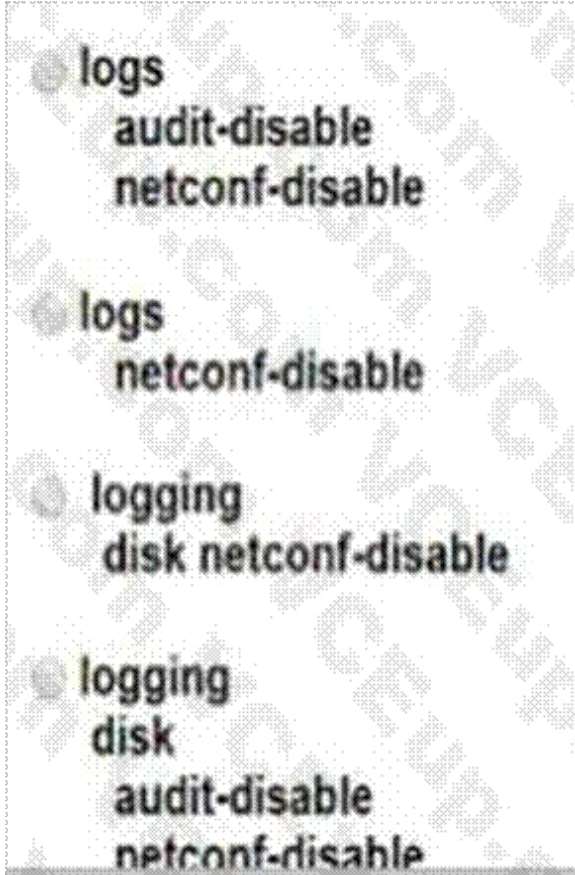
QUESTION 92


```

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_syncdb.log
-rw-r--r-- 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$

```

Refer to the exhibit. Which configuration stops Netconf CLI logging on WAN Edge devices during migration?



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

Correct Answer: B

Section:

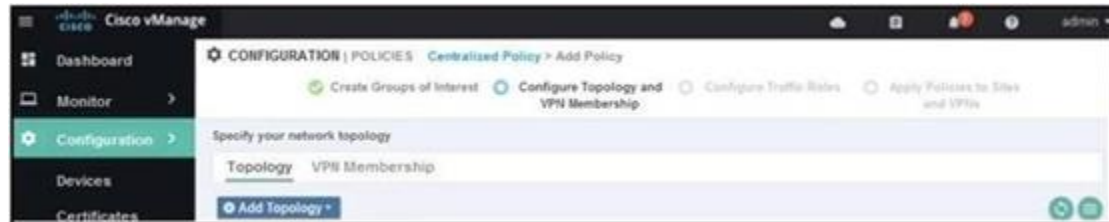
Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/configcmd.html#wp3867250313>

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
```

QUESTION 93



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)

Correct Answer: D

Section:

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policiesbook/controlpolicies.html#id_107219

QUESTION 94

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

Correct Answer: B

Section:

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.

QUESTION 95

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

Correct Answer: C

Section:

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

QUESTION 96

For data plane resiliency, what does the Cisco SD-WAN software implement?

- A. BFD
- B. establishing affinity between vSmart controllers and WAN Edge routers
- C. multiple vBond orchestrators
- D. OMP

Correct Answer: A

Section:

Explanation:

For data plane resiliency, the Cisco SD-WAN software implements standard protocol mechanisms, specifically Bidirectional Forwarding Detection (BFD).

QUESTION 97

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

Correct Answer: D

Section:

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.

QUESTION 98

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

Correct Answer: A, B

Section:

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

QUESTION 99

```
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
```



Refer to the exhibit. 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.

Correct Answer: B, C

Section:

QUESTION 100


```
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
```

Refer to the exhibit, 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

Correct Answer: C

Section:

QUESTION 101



```
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
```

Refer to the exhibit, 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

Correct Answer: D

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge-20-x/policiesbook/service-chaining.html>

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
```

QUESTION 102

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?

A.

```
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
  set
    metric 100
    metric-type type1
```

B.


```
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
```

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 10.10.10.5/24
  !
  route-policy OSPF_Route_Policy
  sequence 1
  match
    address W2_Loopback
  !
  default action accept
  set
    metric 100
  metric-type type1
```

Correct Answer: D
Section:



Explanation:

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

QUESTION 103

An engineer wants to automate the onboarding process for a WAN Edge router with vManage. Which command will accomplish this?

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

Correct Answer: B

Section:

Explanation:

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

QUESTION 104

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

Correct Answer: D

Section:

Explanation:



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

QUESTION 105

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

Correct Answer: D

Section:

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

QUESTION 106

In a Cisco SD-WAN network, which component is responsible for distributing route and policy information via the OMP?

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

Correct Answer: B

Section:

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.

QUESTION 107

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

Correct Answer: C

Section:

**QUESTION 108**

Which protocol is used for the vManage to connect to the vSmart Controller hosted in Cloud?

- A. PnP Server
- B. ZTP
- C. NETCONF
- D. HTTP

Correct Answer: C

Section:

QUESTION 109

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

Correct Answer: D

Section:

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.

QUESTION 110**Correct Answer: C****Section:****Explanation:**

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

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-announce, 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.

QUESTION 111

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.

Correct Answer: B**Section:****QUESTION 112**

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.

Correct Answer: B, C**Section:****Explanation:**

<https://www.connection.com/~media/pdfs/brands/c/cisco/security/cnxc-cisco-sd-wan-andumbrella.pdf?la=en>

QUESTION 113

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

Correct Answer: A

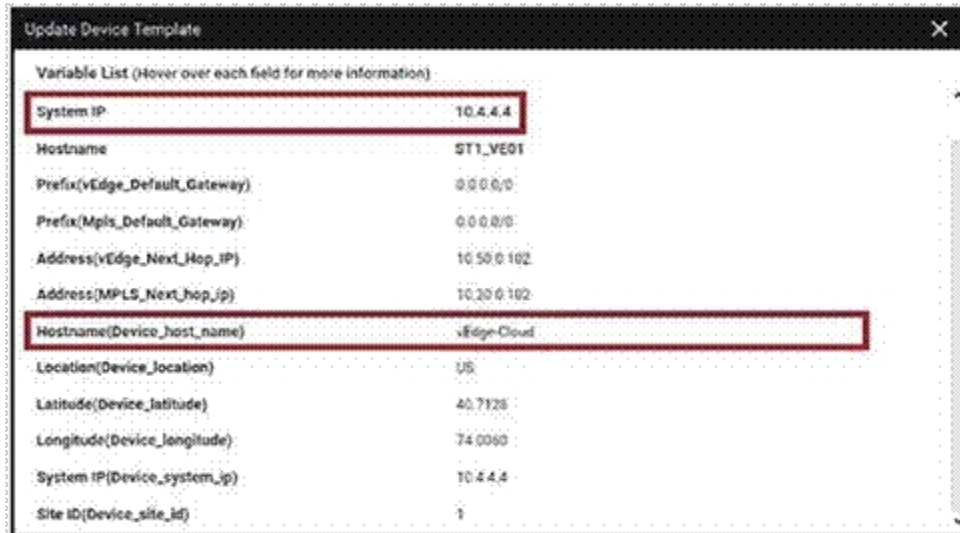
Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/ios-xe-16/securitybook-xe/umbrella-integration.html>

• 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.

QUESTION 114

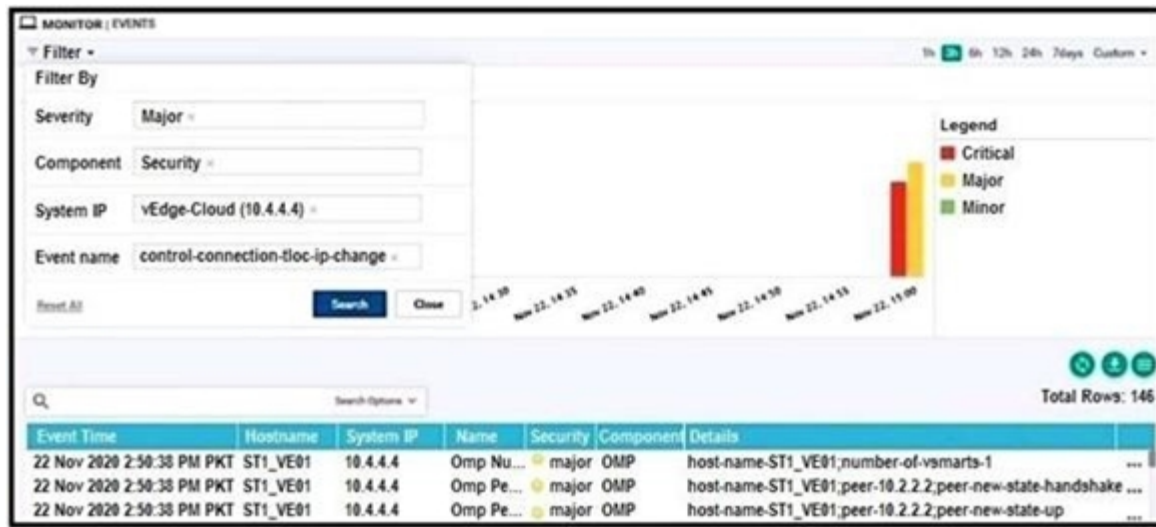


Refer to the exhibit. vManage logs are available for the past few months. A device name change deployed mistakenly at a critical site. How is the device name change tracked by operation and design teams?

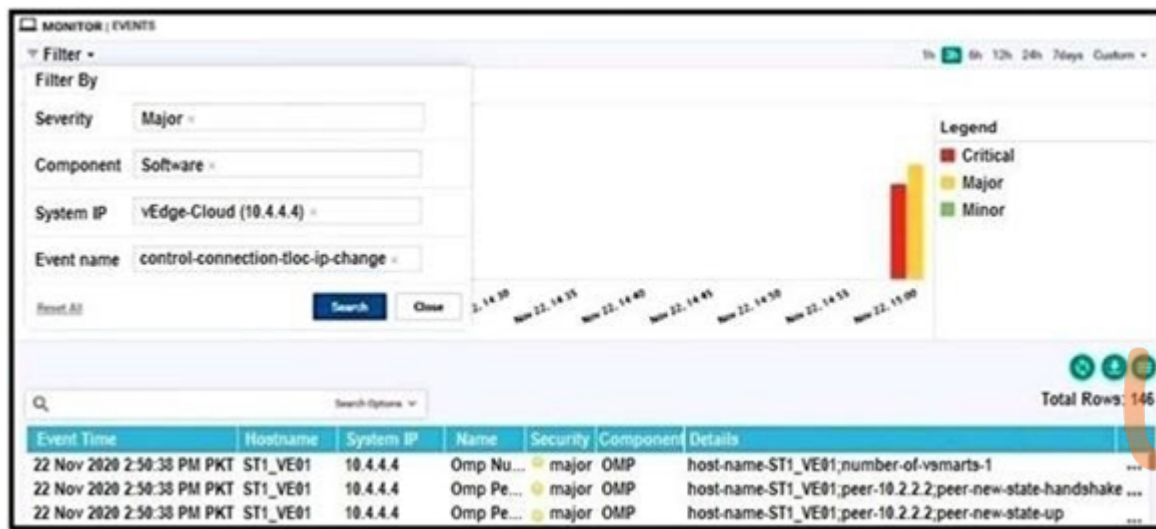
A.



B.



C.



D.



Correct Answer: B

Section:

QUESTION 115

A customer must upgrade the cisco SD-WAN devices and controllers from version 19.2 to version 20.3. The devices include WAN Edge cloud, vManage, vSmart, and vBond. Which types of image types of image files are needed for this upgrade?

- A. one file for vManage and one file for all other devices with extension tar.gz
- B. one file for vManage, one for vSmart and one for vBond + WAN Edge Cloud with extension.bin
- C. one file for vManaga, one for vSmart and one for vBond + WAN Edge Cloud with extension tar.gz
- D. one file for vManaga and one file for all other devices with extension .bin

Correct Answer: C

Section:

Explanation:

<https://software.cisco.com/download/home/286320995/type/286321394/release/20.3.3.1>

QUESTION 116

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

Correct Answer: B, D

Section:

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_Version2.html

QUESTION 117

An organization wants to use the Cisco SD-WAN regionalized service-chaining feature to optimize cost and user experience with application in the network, which allows branch routers to analyze and steer traffic toward the required network function. Which feature meets this requirement?

- A. Cloud Services Platform
- B. VNF Service Chaining
- C. Cloud onRamp for Colocation
- D. Cloud onRamp for IaaS

Correct Answer: C

Section:

Explanation:

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-ciscosd-wan-ebook-cte-en.pdf>

The solution provides enterprises with multiple distributed branch offices that are clustered around major cities or spread over several countries the ability to regionalize the routing services in colocation facilities.

QUESTION 118

What are the two protocols redistributed into OMP? (Choose two.)

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

Correct Answer: A, E

Section:

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/routingbook-xe/m-unicast-routing.html>

QUESTION 119

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

Correct Answer: B

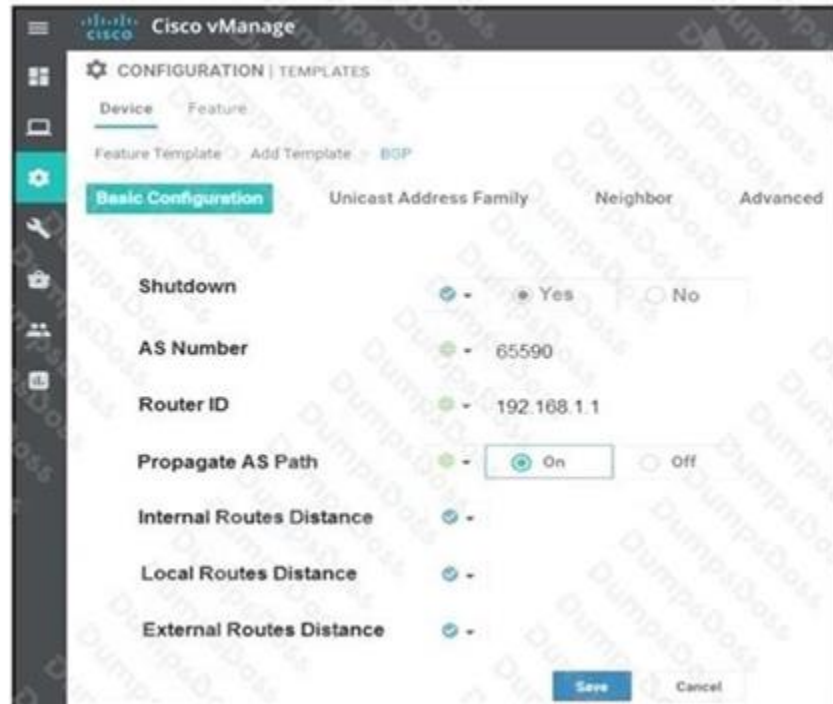
Section:

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.

QUESTION 120





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

Correct Answer: C

Section:

QUESTION 121

MONITOR | ALERT LOG

Filter: Module: vmanage-root-ca

10:12:14 12/1/2020 7Days Custom

Search Volume

Total Rows: 10

Timestamp	Msg	Host	Severity	Source	Target	Event	Message
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1
18 Dec 2020	system	10.1.1.1	Info	Updated root ca used for file on vmanage-d3ar725	vmanage-root-ca	vmanage-root-ca	10.1.1.1

```
vManage# show certificate installed

Server certificate
-----
Certificate:
  Data:
    Version: 1 (0x0)
    Serial Number:
      d0:d1:f0:e0:63:52:c9:3a
    Signature Algorithm: sha256WithRSAEncryption
    Issuer: C=UK, ST=ENG, L=London, O=ABC, CN=SDWAN.lab
    Validity
      Not Before: Jul 30 19:42:30 2020 GMT
      Not After : Jul 30 19:42:30 2021 GMT
    Subject: C=US, ST=California, L=San Jose, OU=ABC,
      O=vIptela Inc, CN=vmanage-6B42d5cf-ce74-41a0-9ff5-
      10e810f9ddab-0.vm
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (2048 bit)
```



Refer to the exhibit A small company was acquired by a large organization As a result, the new organization decided to update information on their Enterprise RootCA and generated a new certificate using openssl Which configuration updates the new certificate and issues an alert in vManage Monitor | Events Dashboard?

```
Step1: Generate the RootCA Certificate

openssl x509 -req -in vmanage_csr \
  -CA ROOTCA.pem -CAkey ROOTCA.key -CAcreateserial \
  -out vmanage.crt -days 365 -sha256

Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization >
Enterprise Root Certificate
```

Step1: Generate the RootCA Certificate

```
openssl x509 -req -in vmanage_csr \  
-CA ROOTCA.pem -CAkey ROOTCA.key -CAcreateserial \  
-out vmanage.crt -days 365 -sha256
```

Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization > Symantec Automated (Recommended)

Step1: Generate the RootCA Certificate

```
vManage:~$openssl req -x509 -new -nodes -key ROOTCA.key -  
sha256 -days 2000 \  
-subj "/C=UK/ST=ENG/L=London/O=XYZ/CN= SDWAN.lab " \  
-out ROOTCA.pem
```

Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization > Enterprise Root Certificate

Step1: Generate the RootCA Certificate

```
vManage#openssl req -x509 -new -nodes -key ROOTCA.key -sha256  
-days 2000 \  
-subj "/C=UK/ST=ENG/L=London/O=ABC/CN= SDWAN.lab " \  
-out ROOTCA.pem
```

Step2: Install the RootCA Certificate

vManage > Administration > Settings > Controller Certificate Authorization > Symantec Automated (Recommended)

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

Correct Answer: C

Section:

Explanation:

Vdumps

7. Generate Root CA certificate named `rootca.pem` and sign it with `rootca.key` that was generated on the previous step.

```
vmange:~/web$ openssl req -x509 -new -nodes -key rootca.key -sha256 -days 4000 -out rootca.pem
```

QUESTION 122

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

Correct Answer: A

Section:

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sdwan-wan-edge-onboardingdeploy-guide-2020nov.pdf>

QUESTION 123

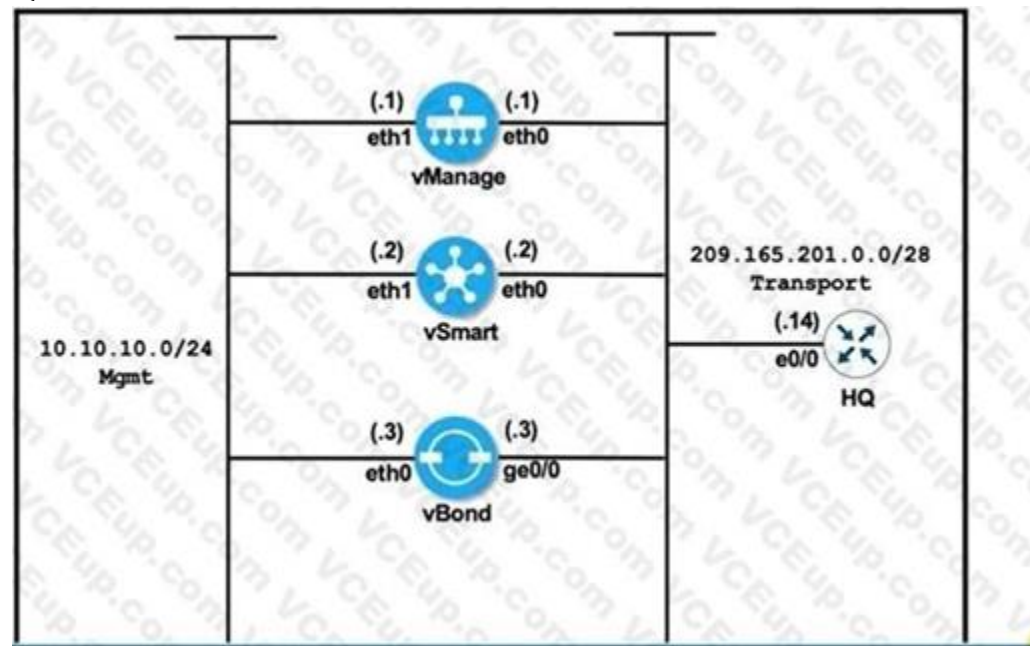
The network administrator is configuring a QoS scheduling policy on traffic received from transport side tunnels on WAN Edge 5000 routers at location 406141498. Which command must be configured on these devices?

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

Correct Answer: A

Section:

QUESTION 124



Vdumps

```

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

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

```

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

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

Correct Answer: B

Section:



QUESTION 125

```

vpn 1
service netsvc1 interface ipsec1

from-vsmart data-policy _1_Service1serctionIPSec
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

```

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

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

Correct Answer: B

Section:

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/vedge/security-book/security-overview.html>

QUESTION 126

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

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

Correct Answer: A

Section:

QUESTION 127

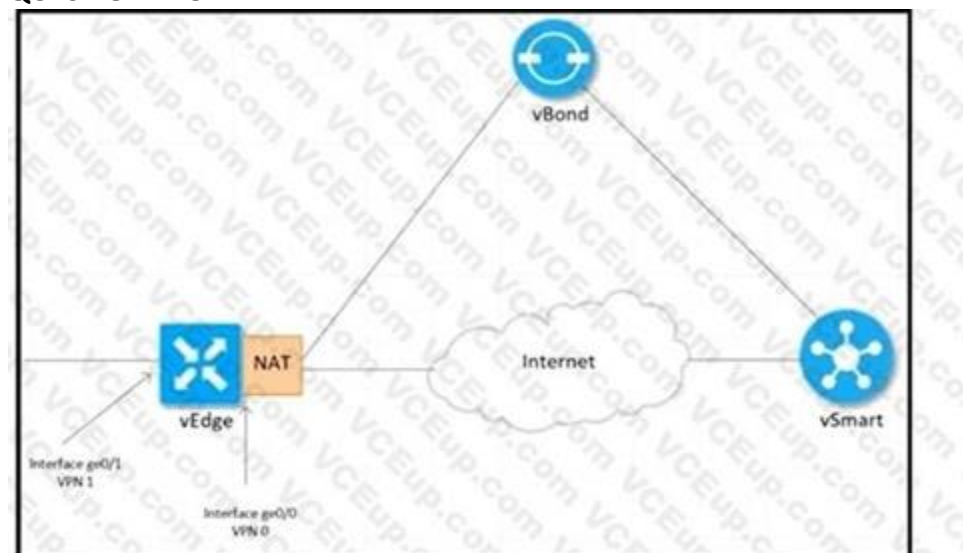
What is the behaviour of vBond orchestrator?

- 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

Correct Answer: A

Section:

QUESTION 128



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

Correct Answer: C
Section:

QUESTION 129

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

Correct Answer: B

Section:

QUESTION 130

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-plane 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 vSmart. and finally on the Cisco WAN Edge devices.
- D. Upgrade and reboot are performed first on vBond. then on vSmart. and finally on the Cisco WAN Edge devices.

Correct Answer: C

Section:

QUESTION 131

Refer to the exhibit.



Address Family On Off

Address Family

Maximum Number of Prefixes

Route Policy In On Off

Route Policy Out On Off

Policy Name

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
```

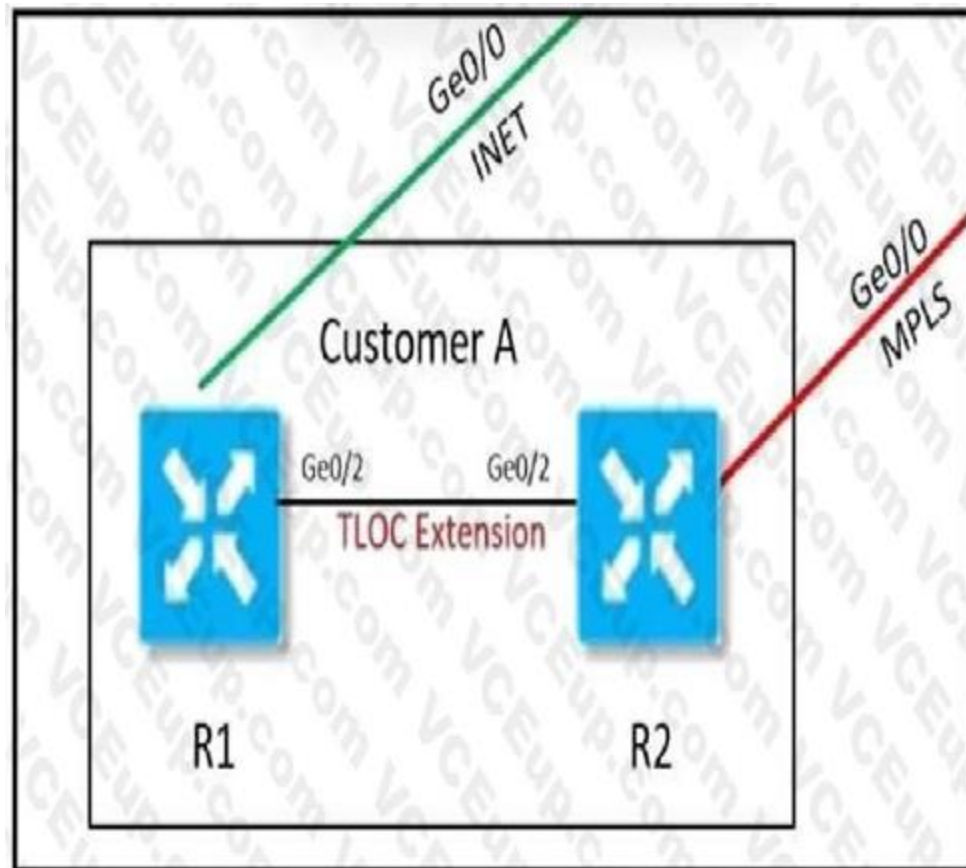
Correct Answer: D

Section:

QUESTION 132

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.

 dumps

```
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
```

- E. Option A
- F. Option B
- G. Option C
- H. Option D

Correct Answer: D

Section:

QUESTION 133

What prohibits deleting a VNF image from the software repository?

- A. if the image is stored by vManage
- B. if the image is referenced by a service chain
- C. if the image is uploaded by a WAN Edge device



D. if the image is included in a configured policy

Correct Answer: D

Section:

QUESTION 134

Which set of elements are verified by the controller to confirm the identity of edge devices?

- 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

Correct Answer: A, C

Section:

Explanation:

-The gateway vEdge uses HTTP to obtain SaaS application performance information - The client vEdgewill use BFD over the IPsec tunnel to the gateway site to obtain client>gateway path performanceinformation
<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Cloud-onRamp-for-SaaS-Deployment-Guide-2018JUL.pdf>

QUESTION 135

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
```



Correct Answer: C

Section:

QUESTION 136

Refer to the exhibit.

vManage system system-ip 10.11.11.1 host-name vManage site-id 1 clock timezone Europe/London vbond 11.1.1.3 organization-name Cisco.com Vpn 0 Interface eth1 Ip address 11.1.1.1/24 No shut Tunnel-interface Allow-service all Ip route 0.0.0.0/0 11.1.1.254	vSmart system system-ip 10.11.11.1 host-name vSmart site-id 1 clock timezone Europe/Rome vbond 11.1.1.3 organization-name Cisco.com Vpn 0 Interface eth1 Ip address 11.1.1.2/24 No shut Tunnel-interface Allow-service all 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 eth0 interfaces on vManage and vSmart.
- D. Reconfigure the system-ip parameter on vSmart to 11.1.1.2.

Correct Answer: B

Section:

QUESTION 137

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

Correct Answer: C

Section:

QUESTION 138

DRAG DROP

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

Select and Place:

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

Correct Answer:

	vEdge
	vBond
	vManage
	vSmart

Section:

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/LTRCRS-3550.pdf> slide 8

QUESTION 139

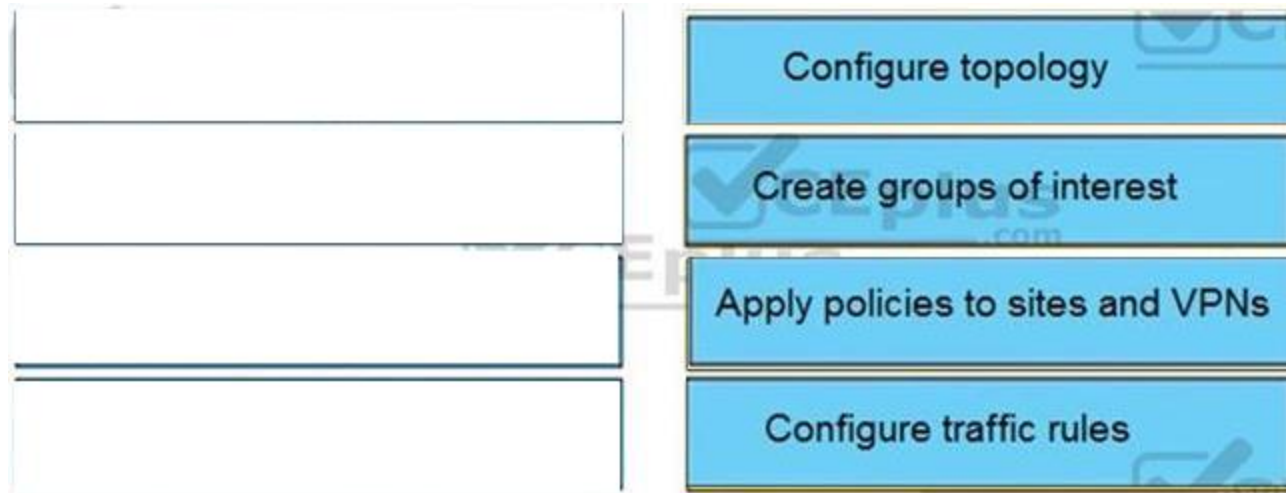
DRAG DROP

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

Select and Place:

Create groups of interest	Create the network structure to which the policy applies
Configure traffic rules	Create lists that group together related items that an engineer can call in the match or action components of a policy
Configure topology	Associate a policy with sites and VPNs in the overlay network
Apply policies to sites and VPNs	Create the match and action conditions of a policy

Correct Answer:



Section:

Explanation:

Reference: <https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/data-policies.html>

QUESTION 140

DRAG DROP

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

Select and Place:

<input checked="" type="checkbox"/>	IP address	target1
<input type="checkbox"/>	color	target2
<input type="checkbox"/>	encapsulation	target3
<input type="checkbox"/>	VPN	
<input type="checkbox"/>	service	



Correct Answer:

<input checked="" type="checkbox"/>		IP address
<input type="checkbox"/>		color
<input type="checkbox"/>		encapsulation
<input type="checkbox"/>	VPN	
<input type="checkbox"/>	service	

Section:

Explanation:

Reference: <https://www.cisco.com/c/en/us/td/docs/solutions/CVD/SDWAN/cisco-sdwan-design-guide.html>

QUESTION 141

DRAG DROP

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

Select and Place:

The initial interface shows four blue boxes on the left containing the following text: "strict hub-and-spoke topology", "perform shaping on traffic", "service firewall insertion", and "prefer voice and video via MPLS link". On the right, there are two orange boxes representing policy types. The top box is labeled "Control Policy" and contains two empty yellow slots. The bottom box is labeled "Data Policy" and contains two empty yellow slots. A watermark "VCEplus.com" is visible in the background.

Correct Answer:

The correct answer interface shows four empty white boxes on the left. On the right, the "Control Policy" box contains two blue boxes with the text "strict hub-and-spoke topology" and "service firewall insertion". The "Data Policy" box contains two blue boxes with the text "perform shaping on traffic" and "prefer voice and video via MPLS link". A watermark "VCEplus.com" is visible in the background.

Vdumps

Section:

Explanation:

QUESTION 142

DRAG DROP

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.

Select and Place:

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

Correct Answer:

	Create centralized data policy
	Identify VPN and match criteria
	Enable NAT functionality
	Apply data policy

Section:

Explanation:

Reference: <https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies-book/vEdge-as-NAT-device.html>

QUESTION 143

DRAG DROP

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

Select and Place:

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

Correct Answer:

	route-map ✓
	VPN 10
	VPN 512
	VPN 0
	organization name

Section:

Explanation:

QUESTION 144

DRAG DROP

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

Select and Place:

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

Correct Answer:

	grouping of VPNs where the data traffic flows terminate
	grouping of VPNs where the data traffic flows originate
	matching condition that allows traffic flow between two zones
	container that associated forwarding and blocking decisions

Section:

Explanation:

Reference: <https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/vedge/security-book/ent-firewall-app-aware.html#:~:text=Source%20zone%E2%80%94grouping%20of,part%20of%20only%20one%20zone.&text=A%20VPN%20can%20be%20part%20of%20only%20one%20zone.,->

Firewall%20policy%E2%80%94A

QUESTION 145

DRAG DROP

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

Select and Place:

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

Correct Answer:

	TLOC IP
	COLOR
	ENCAPSULATION
	shows if the route was chosen to enter the routing table or not



Section:

Explanation:

Explanation:

QUESTION 146

DRAG DROP

Drag and drop the steps from the left into the order on the right to upload software on vManage repository that is accessible from Maintenance > Software Repository.

Select and Place:

Click the repository.	step 1
Select vManage to store the software image.	step 2
Click Add new software.	step 3
Choose the file and click to upload.	step 4

Correct Answer:



Section:

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/vManage-Help/vmanage-help-17-2.pdf>

QUESTION 147

DRAG DROP

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

Select and Place:

Answer Area

Cisco UCS	Compute
CEPH	Storage
RH OpenStack	Management
Gluster	Virtualized Infrastructure
Cisco HyperFlex	
UCS Directory	

Correct Answer:

Answer Area

	Cisco UCS
	CEPH
	UCS Directory
Gluster	RH OpenStack
Cisco HyperFlex	



Section:

Explanation:

QUESTION 148

DRAG DROP

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

Select and Place:

Answer Area

poll interval

color

hello interval

PMTU discovery

multiplier

BFD for Transport Tunnel

BFD for Application-Aware Routing

Correct Answer:

Answer Area

BFD for Transport Tunnel

color

hello interval

PMTU discovery

BFD for Application-Aware Routing

poll interval

multiplier



Section:

Explanation:

QUESTION 149

DRAG DROP

Drag and drop the REST API calls from the left onto the functions on the right.

Select and Place:

Answer Area

PUT	Retrieve or read.
GET	Update an object.
POST	Create an object.
DELETE	Remove an object.

Correct Answer:

Answer Area

	GET
	PUT
	POST
	DELETE



Section:

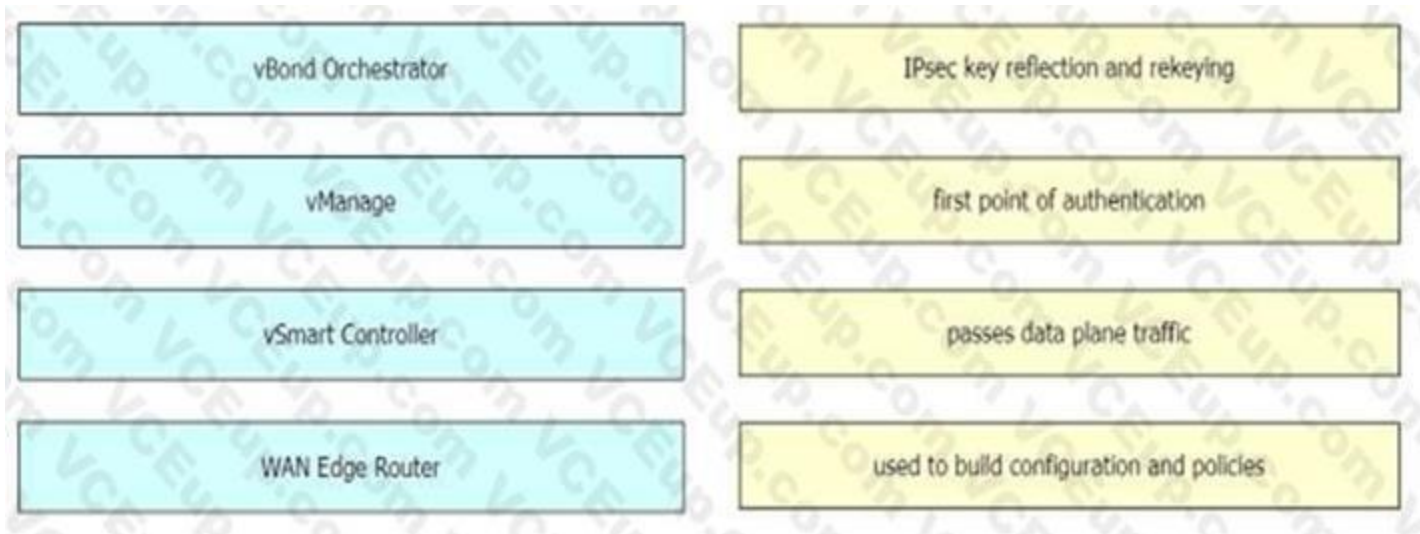
Explanation:

QUESTION 150

DRAG DROP

Drag and drop the Cisco SD-WAN components from the left onto their functions on the right.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 151

Which policy is configured to ensure that a voice packet is always sent on the link with less than a 50 msec delay?

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

Correct Answer: C

Section:

QUESTION 152

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

Correct Answer: D

Section:

QUESTION 153

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

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

Correct Answer: D

Section:

QUESTION 154

An engineer must automate certificate signing through Cisco. Which vManage configuration achieves this task?

A.

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

B.

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

 **dumps**

c.

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

d.

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



Correct Answer: A

Section:

QUESTION 155

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

Correct Answer: C

Section:

QUESTION 156

Which storage format is used when vManage is deployed as a virtual machine on a KVM hypervisor?

- A. .iso
- B. .qcow2
- C. .ova
- D. .tgz

Correct Answer: B

Section:

QUESTION 157

What are two benefits of installing Cisco SD-WAN controllers on cloud-hosted services? (Choose two.)

- A. utilizes well-known cloud services such as Azure, AWS, and GCP
- B. accelerates Cisco SD-WAN deployment
- C. allows integration of the WAN Edge devices in the cloud
- D. installs the controllers in two cloud regions in a primary and backup setup
- E. automatically implements zone-based firewalling on the controllers

Correct Answer: B, D

Section:

QUESTION 158

Which protocol is used by the REST API to communicate with network services in the Cisco SD-WAN network?

- A. SSL
- B. HTTP
- C. IPsec
- D. SSH

Correct Answer: B

Section:



QUESTION 159

What must an engineer consider when deploying an SD-WAN on-premises architecture based on ESXi hypervisor?

- A. Cisco must provision the backup and snapshots platform for the SD-WAN architecture
- B. The managed service provider must provision controllers with their appropriate certificates
- C. The IT team is required to provision the SD-WAN controllers and is responsible for backups and disaster recovery implementation
- D. The IT team will be given access by Cisco to a vManage for configuration templates and policies

Correct Answer: C

Section:

QUESTION 160

What is the OMP graceful restart default value on vSmart controllers and WAN Edge routers?

- A. 21,600 seconds
- B. 43,200 seconds
- C. 86,400 seconds
- D. 604,800 seconds

Correct Answer: B

Section:

QUESTION 161

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.

Correct Answer: A

Section:

QUESTION 162

How is the software managed in Cisco SD-WAN?

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

Correct Answer: A

Section:

QUESTION 163

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

- A. *.opcnstreetmaps.org
- B. *.fullstreetmaps.org
- C. *.callstreetmaps.org
- D. *.globaistreetmaps.org

Correct Answer: A

Section:

QUESTION 164

What is a requirement for deployment of on-premises vBond controllers through the Cisco Plug and Play Connect process?

- A. a DNS name that identifies vBond
- B. a defined controller profile
- C. Internet connectivity from vManage
- D. a CSV file that contains all controllers

Correct Answer: A

Section:

Explanation:

Deploying on-premises vBond controllers through the Cisco Plug and Play Connect process requires specific configurations to ensure proper identification and communication between the controllers and the devices.

1. DNS Name: A DNS name that identifies the vBond orchestrator is crucial. This DNS name allows devices to dynamically resolve the IP address of the vBond orchestrator. This is especially important in environments where IP addresses may change, ensuring that devices can always reach the vBond orchestrator through its DNS name.

1.Process:

oWhen a device comes online, it contacts the Plug and Play server to get the necessary information for connecting to the SD-WAN fabric.

oThe DNS name is used to resolve the vBond's IP address, enabling secure and reliable communication between the device and the vBond orchestrator.

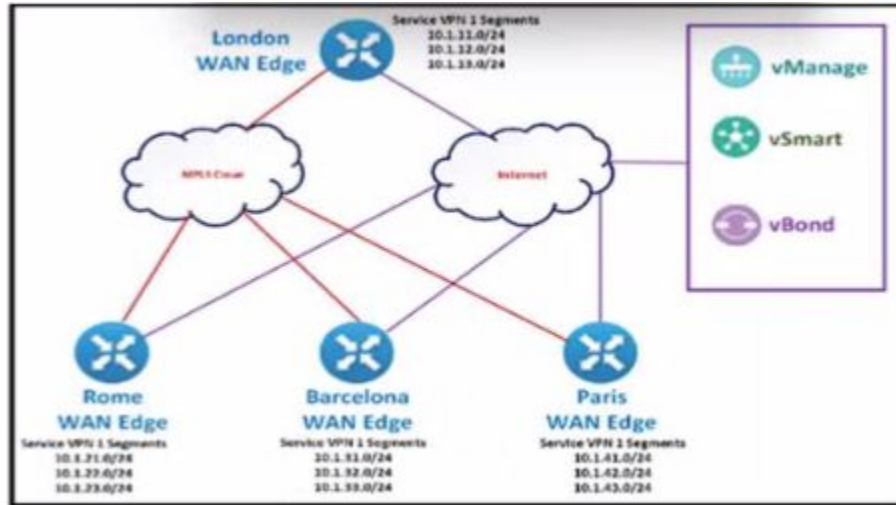
1.Reference:

oCisco SD-WAN Plug and Play Connect Deployment Guide

oCisco SD-WAN vBond Orchestrator Configuration Documentation

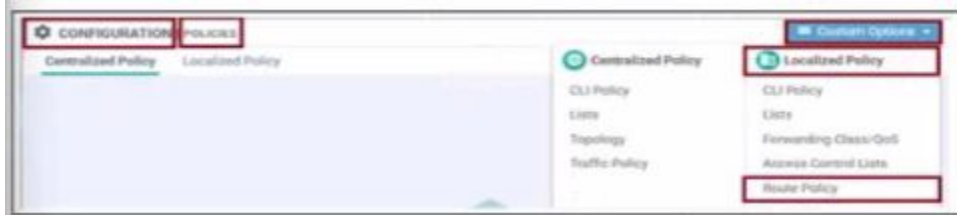
QUESTION 165

Exhibit.



The SD-WAN network is configured with a default full-mesh topology. An engineer wants Barcelona and Paris to communicate to each other through the London site using a control. Which control policy configuration accomplishes the task?

A)



B)



C)



D)





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

Correct Answer: A

Section:

Explanation:

To achieve communication between Barcelona and Paris through the London site, a control policy needs to be configured to force traffic from these two sites to pass through the London site. This setup involves manipulating the routing information such that London becomes a transit hub for traffic between Barcelona and Paris.

1.Understanding the Policy Requirements:

oCentralized Policy: This type of policy is applied at the controller level and affects multiple devices in the SD-WAN fabric. It allows the control of routing behavior across the entire network.

oRoute Policy: Specifically, a route policy will be used to set the preferred path for traffic between sites, ensuring that it passes through London.

1.Option Analysis:

oOption A: Shows the configuration of a centralized policy with a focus on route policy, which is necessary to achieve the desired traffic flow manipulation.

oOther Options: Do not provide the necessary centralized policy or route policy configurations that are needed to control the routing paths between the sites.

1.Configuration Details:

oCentralized Policy: Define the policy under the centralized policy section in the vManage GUI.

oRoute Policy: Create and apply a route policy that specifies the desired routing behavior for traffic between Barcelona and Paris, ensuring it routes through London.

1.Reference:

oCisco SD-WAN Control Policy Configuration Guide

Cisco SD-WAN Centralized Policy Documentation

QUESTION 166

What is the advantage of instating the controller on-premises?

- A. ease of deployment and management
- B. full control of the data piano and the control plane
- C. automatic geographical redundancy and security
- D. scalability and a cost-saving

Correct Answer: B

Section:

Explanation:

Deploying the SD-WAN controller on-premises offers several advantages, particularly in terms of control and customization.

1.Full Control of the Data Plane and the Control Plane: When the controller is deployed on-premises, the organization maintains complete control over both the data plane (traffic forwarding) and the control plane (network management and configuration). This allows for more granular control over network policies, security configurations, and performance optimizations.

1.Customization and Security: On-premises deployment allows organizations to customize their SD-WAN setup to meet specific security and compliance requirements. Sensitive data remains within the organization's control, which can be crucial for industries with strict data privacy regulations.

1.Operational Flexibility: Having the controller on-premises provides operational flexibility, enabling organizations to integrate the SD-WAN solution with existing network management tools and processes.

1.Reference:

oCisco SD-WAN Deployment Guide

oCisco SD-WAN On-Premises Controller Configuration Documentation

QUESTION 167

What is a key element used in a vBond Orchestrator redundancy topology?

- A. fully qualified domain name
- B. DHCP server
- C. load-balancer with health probes
- D. stun server

Correct Answer: A

Section:

Explanation:

In Cisco SD-WAN architecture, the vBond Orchestrator plays a crucial role in the initial device onboarding and control plane security. Ensuring redundancy for vBond Orchestrators is essential for maintaining high availability and reliability in the SD-WAN network.

1.Fully Qualified Domain Name (FQDN): The use of an FQDN is a key element in vBond Orchestrator redundancy. By configuring multiple vBond Orchestrators with the same FQDN, the SD-WAN devices can resolve this domain name to different IP addresses corresponding to the different vBond Orchestrator instances. This allows for automatic failover and load balancing among the vBond Orchestrators.

1.Redundancy Mechanism: The DNS mechanism will resolve the FQDN to a list of IP addresses, and in case one vBond is unreachable, another can be contacted. This approach ensures continuous availability and redundancy without requiring manual reconfiguration of the devices.

1.Reference:

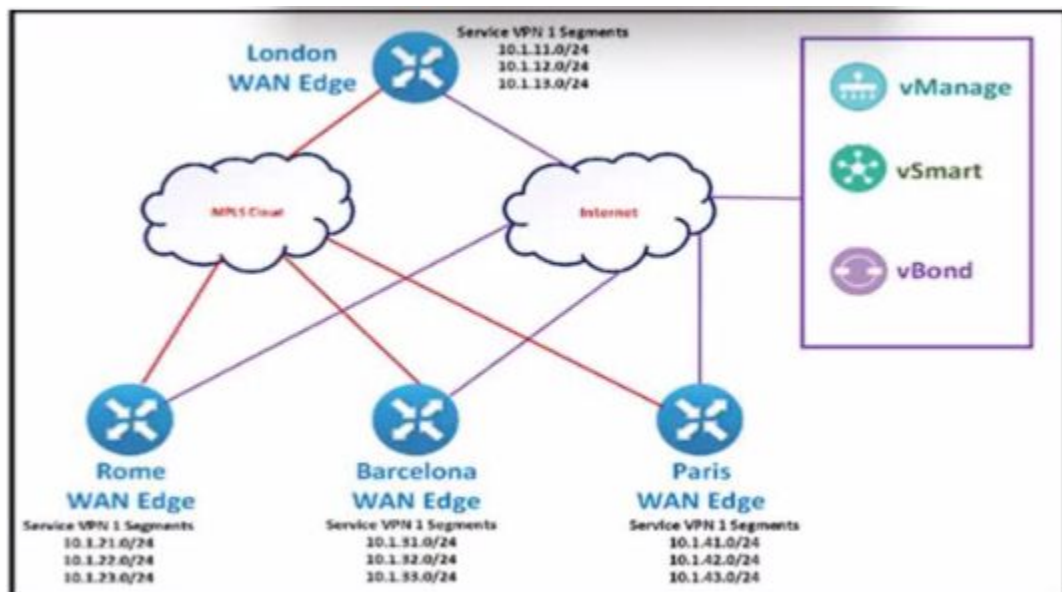
oCisco SD-WAN Design Guide

oCisco SD-WAN Configuration and Deployment Guide



QUESTION 168

Exhibit.



The SD-WAN network is configured with a default full-mesh topology. The network engineer wants the Rome WAN Edge to use the MPLS TLOC as the preferred TLOC when Telnet traffic as long as the MPLS link has these characteristics:

Loss: 5%

Latency: 100ms

Jitter: 100 ms

Which configuration must the network engineer use to create a list that classifies the MPLS link characteristics?

A)

Application
<input type="text" value="Color"/>
Community
Data Prefix
Policer
<input type="text" value="Prefix"/>
<input type="text" value="Site"/>
<input type="text" value="App Probe Class"/>
SLA Class
TLOC
<input type="text" value="VPN"/>

B)

<input type="text" value="Application"/>
Color
Community
Data Prefix
Policer
<input type="text" value="Prefix"/>
<input type="text" value="Site"/>
App Probe Class
<input type="text" value="SLA Class"/>
<input type="text" value="TLOC"/>
VPN

C)



Application
Color
Community
Data Prefix
Policer
Prefix
Site
App Probe Class
SLA Class
TLOC
VPN

D)

Application
Color
Community
Data Prefix
Policer
Prefix
Site
App Probe Class
SLA Class
TLOC
VPN



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

Correct Answer: C

Section:

Explanation:

* Configuration Analysis: The configurations provided in the images must be evaluated to determine which option correctly classifies the MPLS link based on the given criteria of loss, latency, and jitter.

* Preferred TLOC Configuration: The network engineer needs to configure the SD-WAN policy to prefer the MPLS transport for Telnet traffic, ensuring the link characteristics match the specified thresholds.

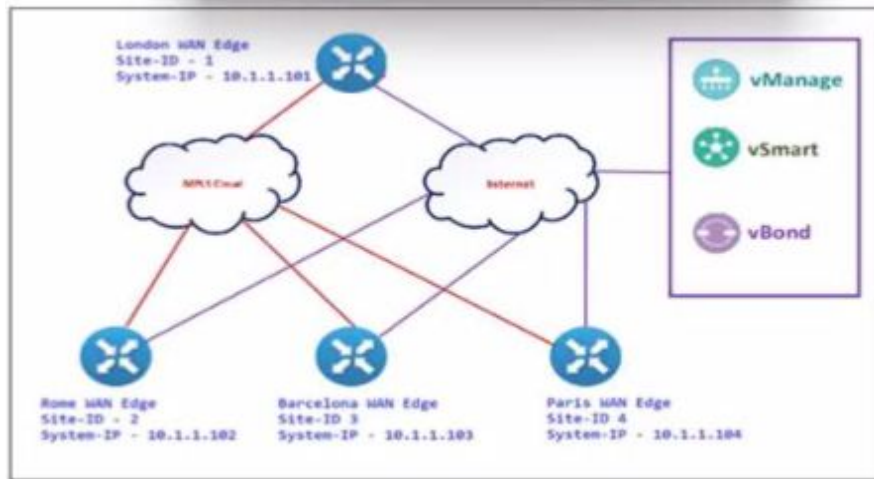
*

Reference:

*Cisco SD-WAN Policy Configuration Guide
*Cisco SD-WAN Transport and TLOC Configuration Guide
*

QUESTION 169

Refer to the Exhibit.



An engineer configures Rome WAN Edge to use MPLS cloud as the preferred link to reach Paris WAN Edge and use biz-internet as a backup. Which policy configuration must be led in the outbound direction toward Rome to accomplish the task?

A)

```
policy
lists
tloc-list TLOC-1
tloc 10.1.1.102 color mpls encaps ipsec preference 500
tloc 10.1.1.102 color biz-internet encaps ipsec preference 400
```

B)

```
policy
lists
tloc-list TLOC-1
tloc 10.1.1.103 color mpls encaps ipsec preference 500
tloc 10.1.1.103 color biz-internet encaps ipsec preference 400
```

C)

```
policy
lists
tloc-list TLOC-1
tloc 10.1.1.101 color mpls encaps ipsec preference 500
tloc 10.1.1.101 color biz-internet encaps ipsec preference 400
```

D)

```
policy
lists
tloc-list TLOC-1
tloc 10.1.1.104 color mpls encaps ipsec preference 500
tloc 10.1.1.104 color biz-internet encaps ipsec preference 400
```

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

Correct Answer: A

Section:

Explanation:

To configure Rome WAN Edge to prefer the MPLS cloud for reaching Paris WAN Edge, and use biz-internet as a backup, the policy must be set correctly to define the preference for each transport link.

1. Understanding TLOCs (Transport Locator): TLOCs represent the transport network paths (MPLS, Internet, etc.) available for SD-WAN. The preference values assigned to TLOCs determine their priority. A lower preference



value indicates a higher priority.

1. Policy Configuration Analysis:

oOption A: This option correctly configures the TLOC list for the system IPs representing the MPLS and biz-internet links with the appropriate preferences (500 for MPLS and 400 for biz-internet).

oOther options either repeat the TLOC configuration incorrectly or reference wrong system IPs.

1. Policy Configuration:

policy

lists

tloc-list TLOC-1

tloc 10.1.1.102 color mpls encap ipsec preference 500

tloc 10.1.1.102 color biz-internet encap ipsec preference 400

1. Reference:

oCisco SD-WAN Policy Framework Guide

oCisco SD-WAN Transport Locator Configuration Documentation

QUESTION 170

What do receivers request to join multicast streams in a Cisco SD-WAN network?

- A. IGMP membership reports directly with a multicast router.
- B. Multicast service routes with the vSmart controller
- C. IGMP membership reports directly with the vBond orchestrator.
- D. PIM messages with the nearest neighboring multicast router.

Correct Answer: B

Section:

Explanation:

In a Cisco SD-WAN network, multicast traffic management is handled differently compared to traditional IP multicast methods due to the nature of the overlay architecture.

1. Multicast Service Routes: In Cisco SD-WAN, multicast receivers use the vSmart controller to request multicast streams. This is done via multicast service routes which the vSmart controller manages. The vSmart controller is responsible for maintaining and distributing multicast routing information to all edge devices in the network.

1. Process:

oWhen a multicast receiver wants to join a multicast stream, it sends an IGMP join request.

oThe WAN Edge device forwards this request to the vSmart controller.

oThe vSmart controller then updates the multicast service routes to include the new receiver, ensuring that multicast traffic is appropriately forwarded to the joining receiver.

1. Reference:

oCisco SD-WAN Multicast Configuration Guide

oCisco SD-WAN vSmart Controller Documentation

QUESTION 171

Which control policy assigned to Drenches in the out direction establishes a strict hub-and-spoke topology for VPN2?

A)



```

policy
lists
vpn-list VPN2
vpn 2
!
site-list hub_sites
site-id 1-2
!
!
control-policy vpn_multi-topology
sequence 10
match route
site-list hub_sites
vpn-list VPN2
!
action accept
!
sequence 20
match route
vpn-list VPN2
!
action reject
!
default-action accept

```

B)

```

policy
lists
vpn-list VPN2
vpn 2
!
site-list hub_sites
site-id 1-2
!
!
control-policy vpn_multi-topology
sequence 10
match route
site-list branch_sites
vpn-list VPN2
!
action accept
set
tloc 1.1.1.1 color red
!
!
default-action accept

```

C)

```

policy
lists
vpn-list VPN2
vpn 2
!
site-list hub_sites
site-id 1-2
!
!
control-policy vpn_multi-topology
sequence 10
match route
site-list hub_sites
vpn-list VPN2
!
action accept
!
sequence 20
match route
!
action reject
!
default-action accept

```

D)



```

policy
lists
vpn-list VPN2
vpn 2
!
site-list branch_sites
site-id 1-100
!
control-policy vpn_multi-topology
sequence 10
match route
site-list branch_sites
vpn-list VPN2
!
action accept
set
tloc 100.1.1.1 color mpls
!
!
!
default-action accept

```

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

Correct Answer: A

Section:

Explanation:

To establish a strict hub-and-spoke topology in Cisco SD-WAN for a specific VPN, such as VPN2, a control policy must be configured. This control policy dictates how traffic flows between sites, ensuring that all branch traffic is routed through the hub site.

1.Control Policy Components:

oSite Lists: Define which sites are considered hubs and which are branches.

oVPN Lists: Identify the VPNs to which the policy applies.

oControl Policy: Use sequences to match routes and specify actions to accept or reject traffic based on the defined topology.

1.Policy Analysis:

oOption A: Correctly defines site lists for hub sites (site-id 1-2) and creates a control policy that matches routes for VPN2, accepting routes from hub sites and rejecting routes from others. This ensures that traffic from branches (other sites) is only accepted if it routes through the hubs.

oOther options either incorrectly define the site lists or do not properly match and set the routes to enforce the strict hub-and-spoke topology.

1.Policy Configuration:

```

policy
lists
vpn-list VPN2
vpn 2
site-list hub_sites
site-id 1-2
!
control-policy vpn_multi_topology
sequence 10
match route
site-list hub_sites
vpn-list VPN2
!
action accept
!
sequence 20
match route

```



```
vpn-list VPN2
!  
action reject
!  
default-action accept  
1.Reference:  
oCisco SD-WAN Control Policy Configuration Guide  
oCisco SD-WAN Hub-and-Spoke Topology Deployment Guide
```

