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CERTIFICATION EXAM SUPPORT

EXAM PREPARATION MATERIAL

Practice files designed to help you understand exam patterns, question styles and the overall assessment format.

IMPORTANT NOTE

> **Please note that these files may not be up to date. However, the questions will help you understand the exam format and typical question patterns.**

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Question: 1

What are the two advantages of deploying cloud-based Cisco SD-WAN controllers? (Choose two.)

A. centralized control and data plane
B. distributed authentication policies
C. management of SLA
D. infrastructure as a service
E. centralized raid storage of data

Answer: C,D

Question: 2

An engineer is troubleshooting a certificate issue on vEdge. Which command is used to verify the validity of the certificates?

A. show control local-properties
B. show control summary
C. show certificate installed
D. show certificate status

Answer: A

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

book/operational-cmd.html#wp2835720000

Question: 3

What is a benefit of the application-aware firewall?

A. It blocks traffic by MAC address
B. It blocks traffic by MTU of the packet.
C. It blocks traffic by application.
D. It blocks encrypted traffic

Answer: C

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/xe-16-9/sec-data-zbf-xe-16-9-book/sec-data-zbf-xe-16-9-book_chapter_0100100.html

Question: 4

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

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

Answer: C

Explanation:
Reference:
https://sdwandocs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/Enterprise_Firewall_with_Application_Awareness

Question: 5

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

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

Answer: A

Explanation:

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

Question: 6

Which device information is requited on PNP/ZTP to support the zero-touch onboarding process?

A. serial and chassis numbers
B. interface IP address
C. public DNS entry
D. system IP address

Answer: A

Explanation:

https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/sd-wan-wan-edge- onboarding-deploy-guide-2020jan.pdf

Question: 7

Which configuration step is taken on vManage after WAN Edge list is uploaded?

A. Send the list to controllers
B. Enable the ZTP process
C. Verify the device certificate
D. Set the device as valid

Answer: D

Explanation:

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

device state must be moved from staging to valid. In vManage under Configuration > Certificates > WAN Edge List, select the WAN Edge device(s) and change the state to valid under the Validity column and click Send to Controllers

Question: 8

When software is upgraded on a vManage NMS, which two image-adding options store images in a

local vManage software repository? (Choose two.)

A. To be downloaded over a SMTP connection
B. To be downloaded over a SNMP connection
C. To be downloaded over an out-of-band connection
D. To be downloaded over a control plane connection
E. To be downloaded over an ICMP connection

Answer: C,D

Explanation:
Reference: https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Maintenance/Software_Repository

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

Answer: B

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

Answer: D

Explanation:
Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/05Security/02Configuring_Security_Parameters

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Question: 11

Which logs verify when a device was upgraded?

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

Answer: A

Explanation:
Reference: https://sdwan-docs.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

Answer: D

Explanation:
Reference:https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr- book/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

Answer: D

Explanation:

Reference:

https://www.cisco.com/c/dam/en/us/products/collateral/routers/1000-series-integrated-services- routers-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

Answer: D

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gs- book/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

Answer: D

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 tauter
O»pf a red numbes' n**a
no summary

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

Answer: B

Explanation:

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

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Answer: B,C

Explanation:

Reference: https://www.grandmetric.com/2020/03/23/zero-touch-provisioning-ztp-cisco-sd-wan- work/

Question: 18

Refer to the exhibit.

PEER TYPE	PEER PROTO	PEER UPTIME	DOL	SYSTE ID	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIVATE PORT	PEER 'UBLIC IP	PUBLIC PORT	LOCAL COLOR	CONTROLLER GROUP STATE
vbond	dtls	-	0	0	WIP	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	a	

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

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

Answer: C

Explanation:

Reference: https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot- control-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

Answer: D

Explanation:

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

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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

Answer: B

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
BR1-VEDGE1		10.3.0.1	reachable	300	vEdge Cloud	8	5

What does the BFD value of 8 represent?

A. number of BFD sessions
B. hello timer of BFD session
C. poll-interval of BFD session.
D. dead timer of BFD session

Answer: A

Explanation:

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

Answer: B

Explanation:

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

Answer: A

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

Question: 24

Refer to the exhibit.

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

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

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

D. A TCP packet sourcing from 172.16.20.1 and destined to 172.16.10.1 is accepted

Answer: C

Explanation:

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

Answer: C

Explanation:

Cisco vSmart Controller

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

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

Answer: B

Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/vedge/policies- book.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 tlocs
B. show omp sessions
C. show omp peers
D. show omp route

Answer: A

Explanation:

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

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

Answer: C

Explanation:

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

Answer: D

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

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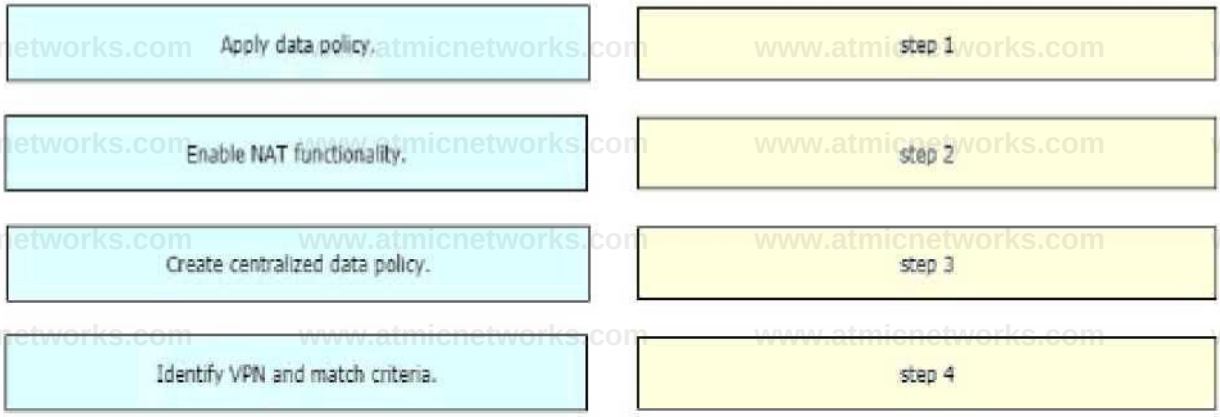
Question: 30

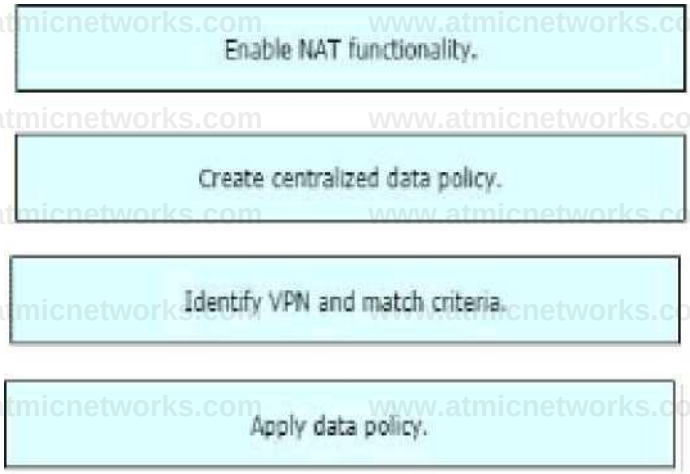
DRAG DROP

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.



Answer:

Explanation:



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

Question: 31

An engineer is troubleshooting a vEdge router and identifies a "DCONFAIL – DTLS connection failure"

message. What is the problem?

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

Answer: D

Explanation:

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

Question: 32

Which on-the-box security feature supported by the Cisco ISR 4451 SD-WAN device and not on vEdge?

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

Answer: B

Explanation:

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

Question: 33

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-iist VPN 1

vpn 10

vpn 20

vpn-membership disallow-vpn 1 sequence 10

match

vpn-iist VPN 1

i ■

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

i

action reject

r

!

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

i

i a

default-action accept

D)

policy

lists

```
site-list BP-Sites
    site-id 10
    site-id 20
vpn-list AII-BPs
    vpn 100
    vpn 101
vpn-list Enterprise-BP
    vpn 200
controi-poI icy i m port- B P s -to- E nte rp r i s e sequence 10
match route
  vpn-list AII-BPs [
 action accept
  export-to vpn-list Enterprise-BP


default-action accept
```

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

Answer: C

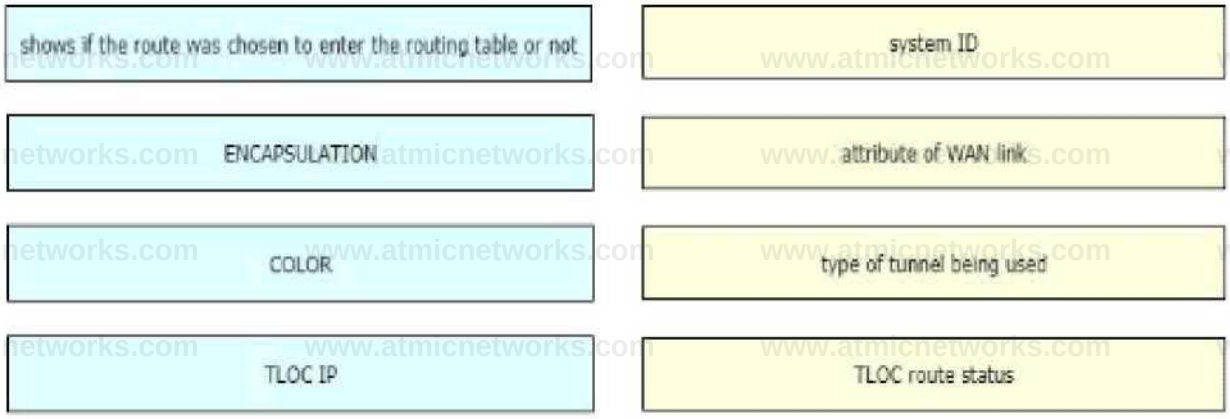
Explanation:
Reference: https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-17-

2.pdf#page=190

Question: 34

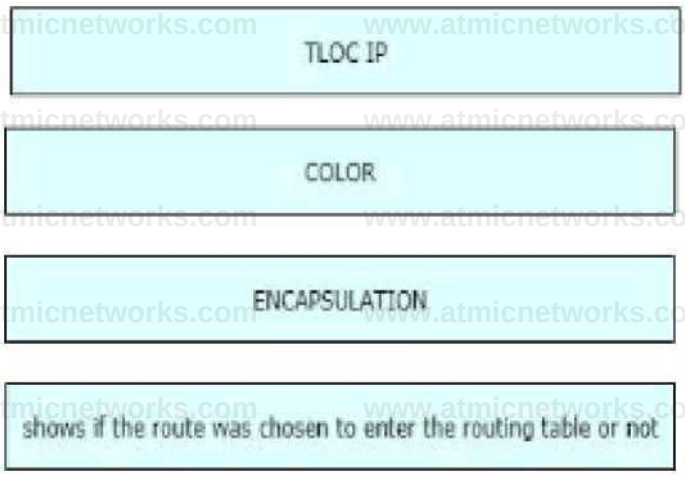
DRAG DROP

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



Answer:

Explanation:



Question: 35

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

A)

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

B)

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

C)

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

D)

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

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

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D. Option D

Answer: B

Explanation:

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

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

Question: 36

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

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

Answer: D

Explanation:

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

Question: 37

Which two platforms for the Cisco SD-WAN architecture are deployable in a hypervisor on-premises or in IAAS Cloud? (Choose two.)

A. CSR 1000v
B. vEdge 100c
C. vEdge Cloud
D. vEdge 2000
E. ISR 4431

Answer: A,C

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

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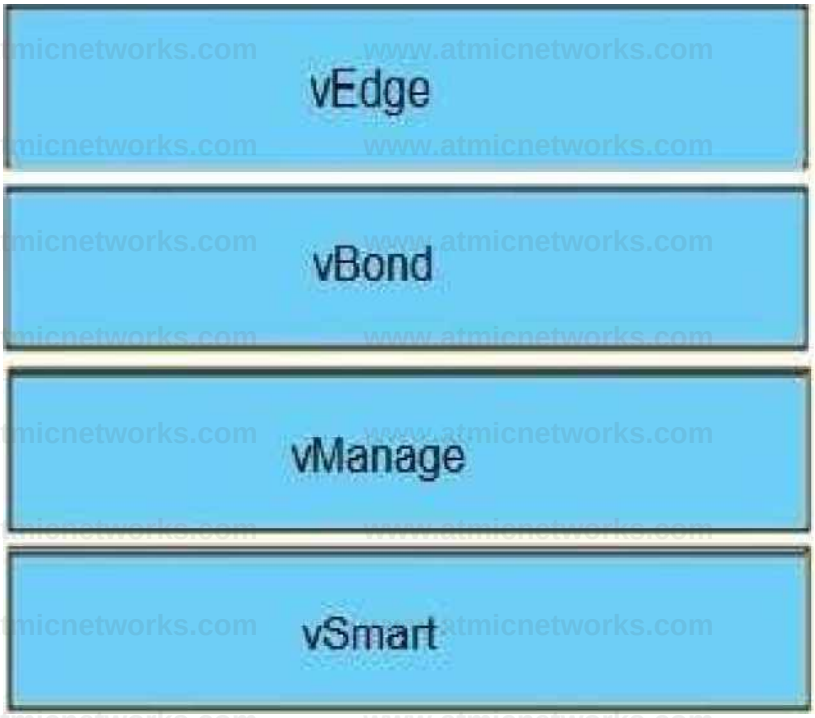
Question: 38

DRAG DROP

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

Answer:

Explanation:



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

Question: 39

When redistribution is configured between OMP and BGP at two Data Center sites that have Direct Connection interlink, which step avoids learning the same routes on WAN Edge routers of the DCs from LAN?

A. Define different VRFs on both DCs
B. Set same overlay AS on both DC WAN Edge routers

C. Set down-bit on Edge routers on DC1
D. Set OMP admin distance lower than BGP admin distance

Answer: B

Explanation:

Typically, there are more than one datacenters for HA redundancy requirements. After successftil 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 explamed below can be used:

1. Use the same Autonomous System Numbers (ASN) on edge routers of the two datacenters. Because of the same ASN, the AS-PATH attribute will avoid learning the same prefixes on the edge routers that are advertised by the other datacenter towards the LAN side.

2. Use overlay-AS to insert Overlay Management Protocol (OMP) AS number when redistributing the routes from OMP into LAN side towards DC LAN. Configure all DC SD- WAN edge routers with the same overlay-as. This allows the edges to filter the routes advertised by the other DCs edge devices towards the LAN side and prevents redistributing the same routes back into OMP.

3. Use tags or communities to mark the prefixes at one datacenter when redistributing to DC LAN and filter on the edge of the other datacenter when learning advertisements from the LAN side.

Question: 40

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

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

Answer: A

Explanation:

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

Question: 41

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

A)

VPN 10

ip route 0.0.0.0/0 vpn 0

B)

VPN 10

ip route 0.0.0.0/0 vpn 0

VPNO

interface Gig1/1

nat

C)

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policy
data-policy DPI
vpn-list vpn 10
sequence 10 match
app-list YouTube destination-port 80 443 !
action accept count Youtube
I
default-action accept !
lists
vpn-list vpni 0
vpn 10

app-list YouTube app youtube app youtube_hd !
site-list Remote
site-id 14
site-id 15 r
i
I '
apply-policy
site-list Remote

D)

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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

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

Answer: B

Explanation:

As explained in figure 7, within the direct Internet model, segmentation is leveraged by deploying centralized data policies or a NAT DIA route to leak Internet traffic from the service-side VPN (VPNs 0 - 511,513 - 65530) into the Internet transport VPN (VPN 0), which allows traffic to exit directly to the Internet through the NAT- enabled interface in VPN 0.

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

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2020aug.pdf

Question: 42

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

Answer: A

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

Question: 43

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

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

Answer: A

Explanation:

Display all available vEdge routers in the overlay network.

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

Question: 44

On which device is a service FW address configured to Insert firewall service at the hub?

A. vEdge at the branch
B. vSmart at the hub
C. vEdge at the hub
D. vSmart at the branch

Answer: C

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

Question: 45

Refer to the exhibit.

```
#Branchl-Edgel
vpn 0
interface geO/1
  ip address
172.17.113.241/28
  tunnel-interface
  encapsulation ipsec
  color mpls restrict
  no shutdown

interface ge0/2.704
  ip address 10.113.4.2/30 tloc-extension
  ge0/2
```

```
#Branchl-Edge2
vpn 0
interface ge0/2
  no shutdown

interface ge0/2.704
  ipaddress 10.113.4.1/30
  tunnel-interface
  encapsulation ipsec
  color mpls restrict
  mtu 1496
  no shutdown

ip route 0.0.0.0/0 10.113.4.2
```

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

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A interface geO/2.704 ip address 10.113.4.1/30 tunnel-interface encapsulation ipsec color mpls restrict no shutdown

0 interface geO/2.704 ip address 10.113.4.2/30 mtu 1496 tloc-extension ge0/1

0 interface geO/2.704 ip address 10.113.4.2/30 mtu 1496 tloc-extension ge0/2

0 interface geO/2.704 ip address 10.113.4.1/30 tunnel-interface encapsulation ipsec color mpls restrict mtu 1496 tloc-extension geO/2 no shutdown

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

Answer: B

Explanation:

Question: 46

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

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

Answer: B,C

Explanation:

Question: 47

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

A. 2

B. 8
C. 6
D. 4

Answer: D

Explanation:

Question: 48

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

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

Answer: C

Explanation:

Question: 49

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

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

Answer: A,E

Explanation:

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

Question: 50

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

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

Answer: B,E

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/01Security_Overview/Data_Plane_Security_Overview

Question: 51

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	0000/0
	Gateway	Radio button	Next Hop
	Next Hop	Device Specific	vpn5!2_mgt_next_hop_ip_addr

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

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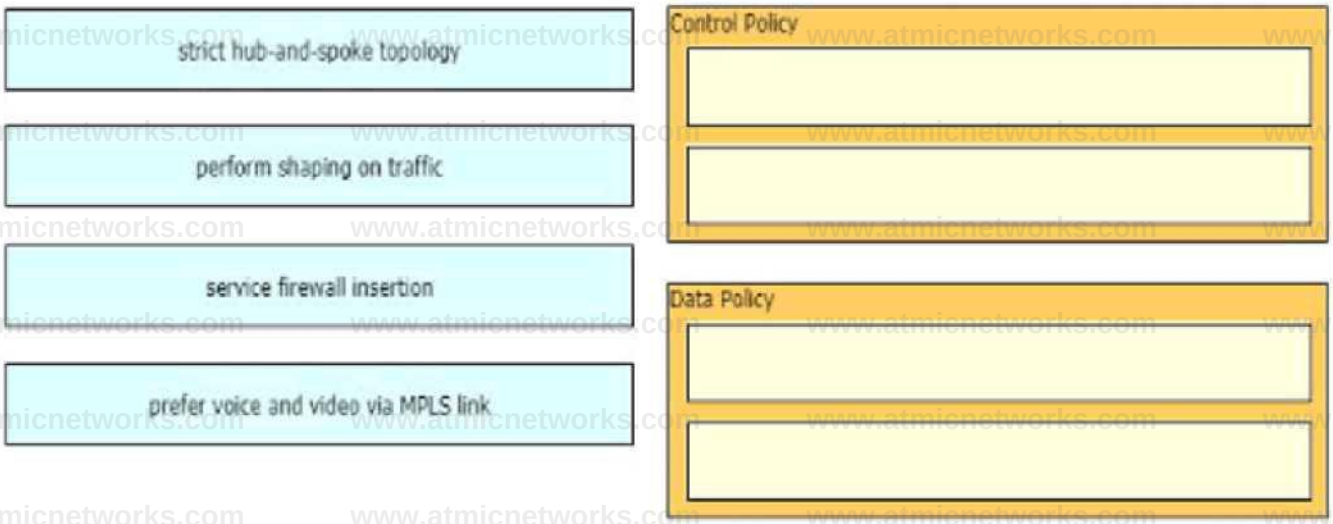
Answer: B

Explanation:

Question: 52

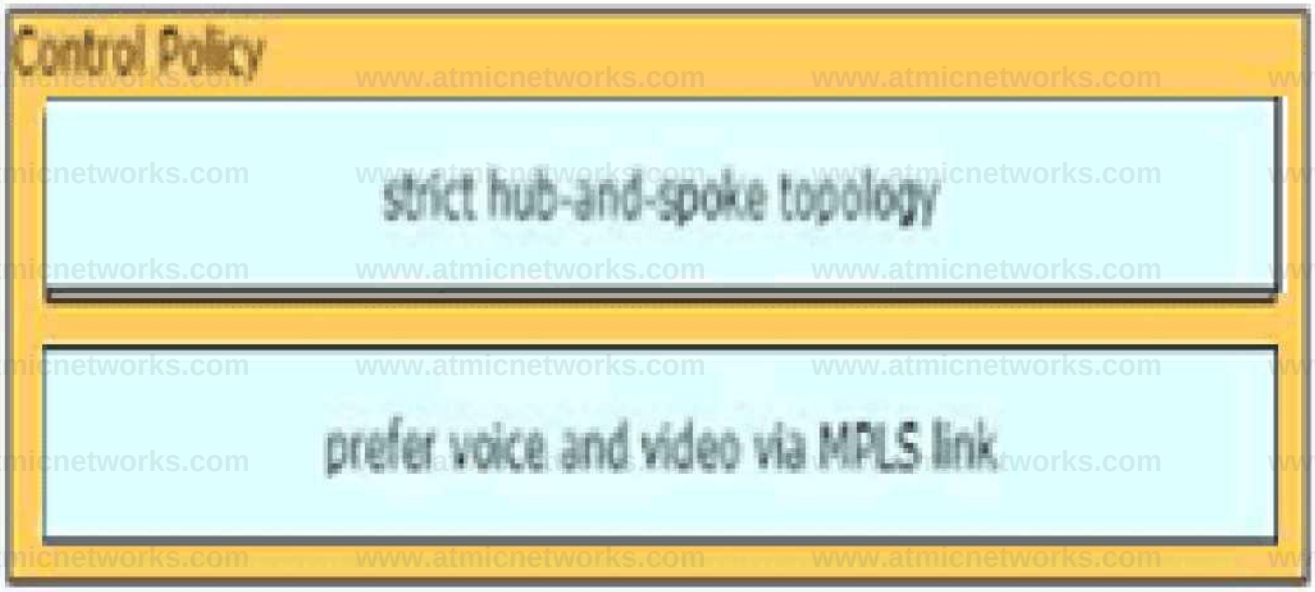
DRAG DROP

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



Answer:

Explanation:



Question: 53

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

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

Answer: D

Explanation:

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

Question: 54

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

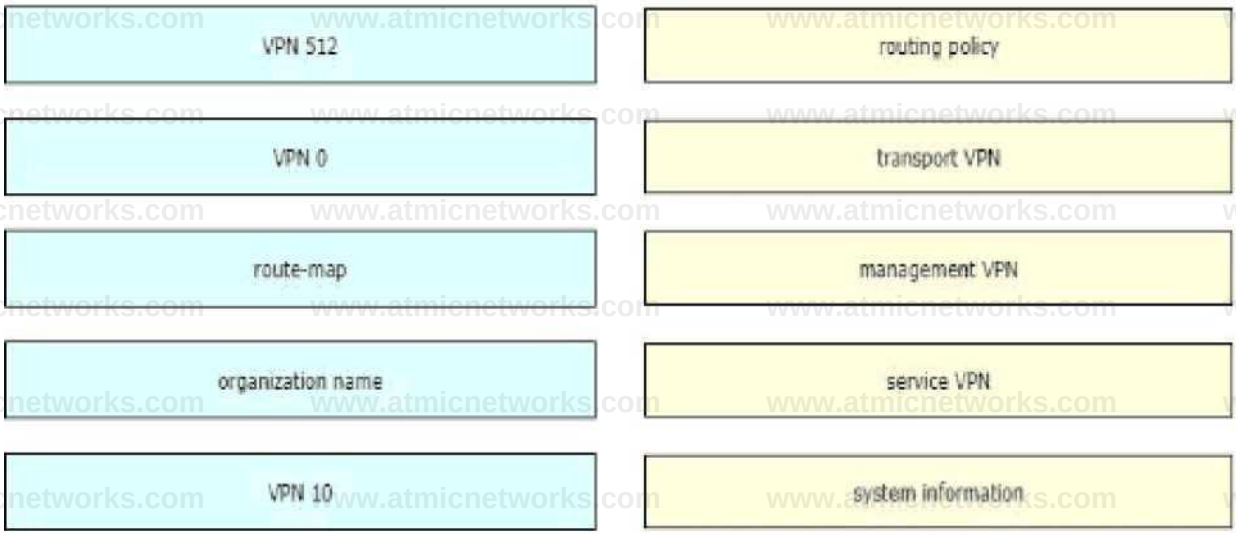
A. 2 seconds
B. 3 seconds
C. 1 second
D. 5 seconds

Answer: C

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

Question: 55

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



Answer:

Explanation:

Question: 56

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

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

Answer: A

Explanation:

E. **Using Cisco vManage:**

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

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

Question: 57

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

A. 3

B. 7
C. 5
D. 2

Answer: B

Explanation:

Question: 58

Which combination of platforms are managed by vManage?

A. ISR4321, ASR1001, ENCS, lSRv
B. ISR4351, ASR1002HX, vEdge2000, vEdge Cloud
C. ISR4321, ASR1001, Nexus, ENCS
D. lSR435l, ASRl009, vEdge2000, CSR1000v

Answer: A

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

Question: 59

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

Answer: D

Explanation:
Reference:
https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/06Policy_Basics/05Localized_Data_Policy/Configuring_Localized_Data_Policy_for_IPv4

Question: 60

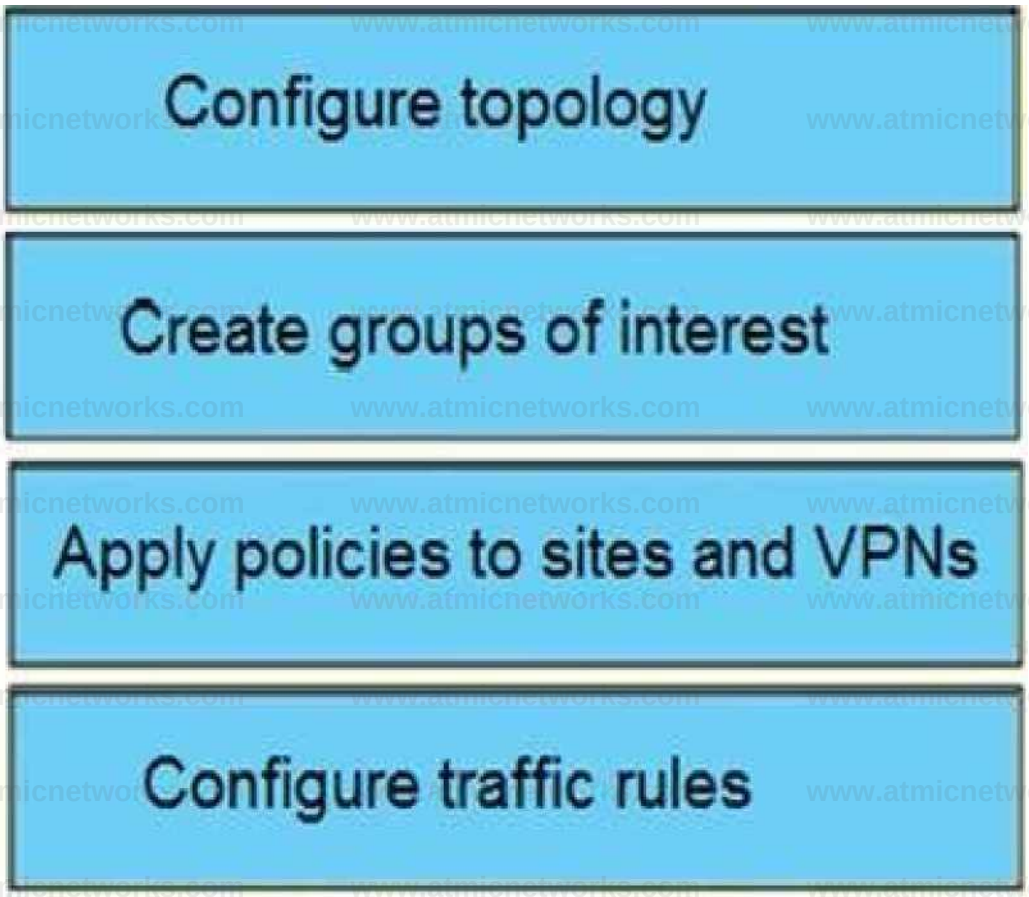
DRAG DROP

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

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.

Answer:

Explanation:



Reference:

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

Question: 61

Which platforms are managed by a single vManage dashboard?

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

Answer: C

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

Question: 62

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

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

Answer: B

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

Question: 63

What is a benefit of the application aware firewall feature in the Cisco SD-WAN solution?

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

Answer: C

Explanation:

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

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

• Application visibility and granular control

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Question: 64

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

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

Answer: D

Explanation:

Question: 65

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

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

Answer: C

Explanation:

Cisco vManage provides a single-pane-of-glass management to manage all controller components and both enterpnse 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: 66

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

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

Answer: B

Explanation:

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

Question: 67

Which two algorithms authenticate a user when configuring SNMPv3 monitoring on a WAN Edge router? (Choose two.)

A. AES-256
B. SHA-1
C. AES-128
D. MD5
E. SHA-2

Answer: A,B

Explanation:

Configure SNMPv3

Table 7. Feature History

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

To configure SNMPv3, in SNMP Version, click V3 For SNMPv3, you can configure groups, users, and trap information. Configure groups and trap information as described above.
To configure SNMPv3 users, in the User section, click Add New User and enter the following parameters:

Table 8.

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

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

Question: 68

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.

Answer: A,E

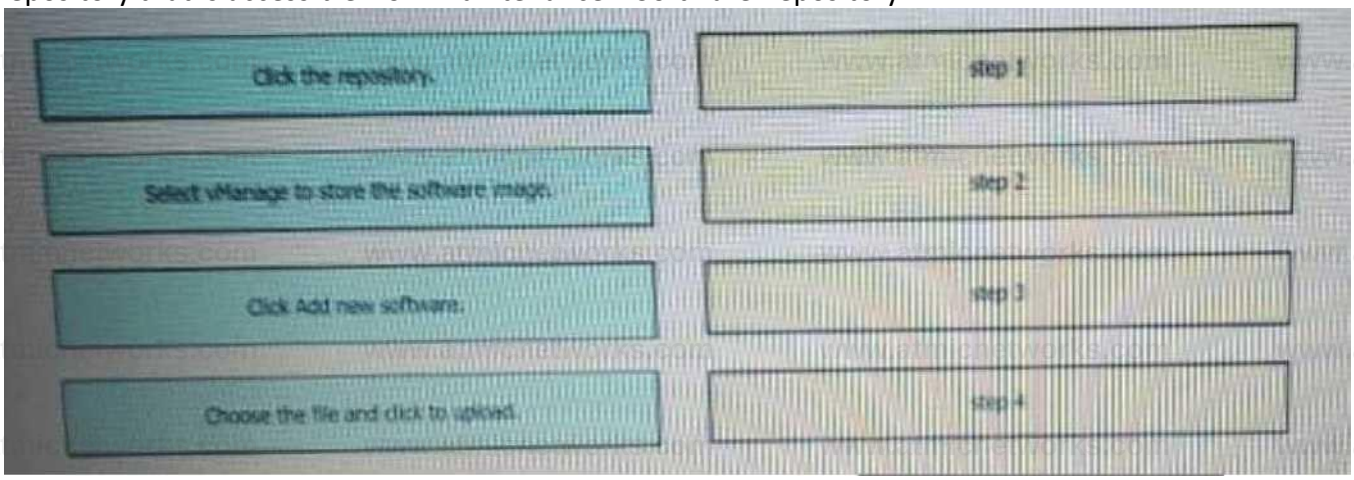
Explanation:

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: 69

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.



Explanation:

Answer:

Click the repository

Click Add new software

Select vManage to store the software image

Choose the file and click to upload

Add an Image to the Software Repository

To add a software image to the software repository:

1. In Cisco vManage, click **Maintenance > Software Repository.**

2. Click **Add New Software** and select **vManage** from the drop-down menu

3. In the **Upload Software to vManage** dialog box:

   a. Click **Browse** and browse to the desired software image.

   b. Click **Upload**

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/Monitor-And-Maintain/monitor-maintain-book/maintain.html#c-Software_Upgrade-12330

Question: 70

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

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

Answer: B

Explanation:

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

Question: 71

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

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

Answer: A

Explanation:

• VPN 0 is the transport VPN. It carries control traffic over secure DTLS or TLS connections between vSmart controllers and vEdge routers, and between vSmart controllers and vBond orchestrators. Initially, VPN 0 contains all a device's interfaces except for the management

interface, and all the interfaces are disabled. For the control plane to establish itself so that the overlay network can function, you must configure WAN transport interfaces in VPN 0.

Question: 72

Which device in the SD- WAN solution receives and categorizes event reports, and generates alarms?

A. WAN Edge routers
B. vSmart controllers
C. vManage NMS
D. vBond controllers

Answer: C

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_17.1/vManage_NMS_Product_Help

Question: 73

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.

Answer: C

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 (BED) protocol is enabled by default and runs

Question: 74

When a WAN Edge device joins the SD-WAN overlay, which Cisco SD-WAN components orchestrates the connection between the WAN Edge device and a vSmart controller?

A. vManage
B. vBond

C. OMP

D. APIC-EM

Answer: B

Explanation:

When a vEdge device comes up, how does it automatically discover Cisco vManage and Cisco vSmart Controller and establish connections with them? It does so with help from Cisco vBond Orchestrator.

Question: 75

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

A. configure the control policy

B. configure the data policy

C. configure the data security policy

D. configure the application aware policy

Answer: B

Explanation:

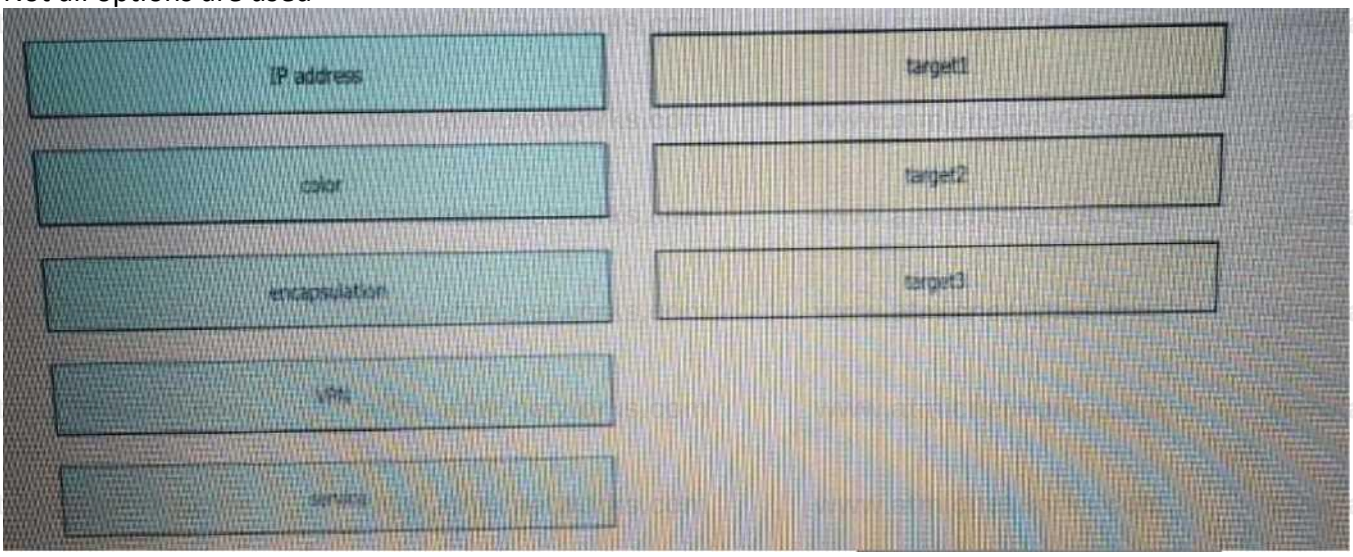
Data policy influences the flow of data traffic traversing the network

Question: 76

DRAG DROP

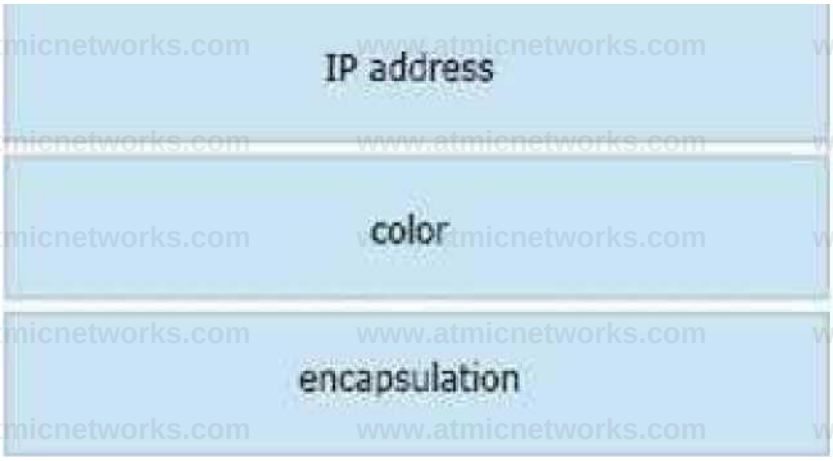
Drag and drop the attributes from the left that make each transport location unique onto the right.

Not all options are used



Answer:

Explanation:



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

Question: 77

Refer to the exhibit.

```
vEdge-2(config-vpn-0)# interface ge0/2.101
vEdge-2(config-interface)# ip address 10.1.100.0/24
vEdge-2(config-interface)# tloc-extension ge0/0
vEdge-2(config-interface)# mtu 1496
vEdge-2(config-interface)# no shutdown
```

What binding is created using the tloc-extension command?

A. between ge 0/2.101 of port-type service and ge 0/0 of port-type service
B. between ge 0/2.101 of port-type transport and ge 0/0 of port-type service
C. between ge 0/2.101 of port-type service and ge 0/0 of port-type transport
D. between ge 0/2.101 of port-type transport and ge 0/0 of port-type transport

Answer: D

Explanation:

tloc-extension

Bind this interface, which connects to another vEdge router at the same physical site, to the local router's WAN transport interface (on vEdge routers only).

Question: 78

Answer:

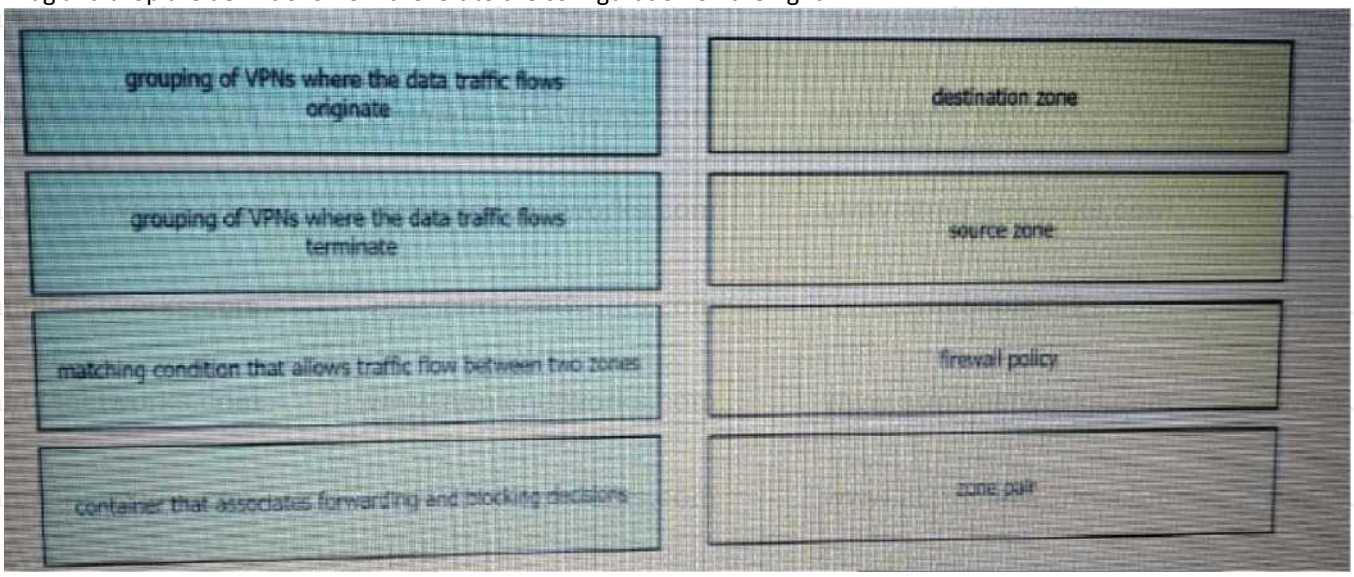
grouping of VPNs where the data traffic flows terminate

grouping of VPNs where the data, traffic flows originate

matching condition that allows traffic flow between two zones

DRAG DROP

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



Explanation:

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container that associates forwarding and blocking decisions

Service Chaining

Traffic Flow Monitoring with Cflowd

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

Question: 79

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

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

Answer: A

Explanation:

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

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

Question: 80

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

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

Answer: A

Explanation:

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

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Question: 81

A policy is created to influence routing 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. Control-policy
C. cflowd-template
D. App-route policy

Answer: B

Explanation:

Control policy, which is similar to standard routing policy, operates on routes and routing information in the control plane of the overlay network. Centralized control policy, which is provisioned on the Cisco vSmart Controller, is the Cisco SD-WAN technique for customizing network-wide routing decisions that determine or influence routing paths through the overlay network. Local control policy, which is provisioned on a Cisco vEdge device, allows customization of routing decisions

Question: 82

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

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

Answer: A

Explanation:

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

Question: 83

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

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

Answer: D

Explanation:

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

Question: 84

What is a description of vManage NMS?

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

Answer: B

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/optimization- ha/vedge/network-optimization-high-availability-book/high-availability.html

Question: 85

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

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

Answer: D

Explanation:

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

Question: 86

Which VPN connects the transport-side WAN Edge interface to the underlay/WAN network?

A. VPN 1
B. VPN 511
C. VPN 0

D. VPN 512

Answer: C

Explanation:

transport network and the transport network itself. The network ports that connect to the underlay network are part of VPN 0, the transport VPN. Getting connectivity to the Service Provider gateway in the transport network usually involves configuring a static default gateway (most

Question: 87

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

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

Answer: C,E

Explanation:

2. Virtual platforms

- Cloud Sendees Router (CSR) lOOOv running IOS XE SD-WAN Software
- vEdge Cloud Router running Viptela OS

Question: 88

Which port is used for vBond under controller certificates if no alternate port is configured?

A. 12345
B. 12347
C. 12346
D. 12344

Answer: C

Explanation:

vSmart and vManage are normally installed behind NAT device, so port hopping is not needed. vBond always uses to other Viptela devices using port 12346 and they never use port hopping.

Question: 89

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

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

Answer: A

Explanation:

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

Question: 90

A network administrator is configuring a tunnel interface on a branch Cisco IOS XE router to run TLOC extensions. Which configuration will extend a TLOC over a GRE tunnel to another router in the branch?

```
sdwan
  interface gOO
    extended-interface tloc-extension-gre-from 10 1 1 1
```

```
sdwan
  interface gO 0
    gre-mterface tloc-extensicn-greto 101 11
```

```
sdwan
  interface gO 0
    tunnel-interface
      tloc-extension-gre-to 10 1 1 1
```

```
sdwan
  interface gO 0
    floc-interface
      tloc-extension-gre-from 10111
```

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

Answer: C

Explanation:

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

Command Hierarchy

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

Question: 91

Which two products that perform lifecycle management for virtual instances are supported by WAN Edge cloud routers? (Choose two.)

A. OpenStack
B. AWS
C. VMware vCenter
D. Azure
E. IBM Cloud

Answer: A,C

Explanation:

https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-07-cloud- router-data-sheet-cte-en.html

The following figure illustrates Cisco vEdge Cloud router solution elements.

Question: 92

A network administrator is creating an OMP feature template from the vManage GUI to be applied to WAN edge routers. Which configuration attribute will avoid the redistribution of the routes back into the OMP from the LAN side?

A. configure "Number of Paths Advertised per Prefix"
B. configure "Overlay AS Number"
C. configure "Send Backup Paths"
D. configure "ECMP limit"

Answer: B

Explanation:

If you configure the same overlay AS number on multiple vEdge routers in the overlay network, all these routers are considered to be part of the same AS, and as a result, they do not forward any routes that contain the overlay AS number. This mechanism is an additional technique for preventing BGP routing loops in the network

Question: 93

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

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

Answer: B

Explanation:

https://sdwan-

www.atmicnetworks.com

docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Devices

Question: 94

An engineer is tasked to improve throughput for connection-oriented traffic by decreasing round-trip latency. Which configuration will achieve this goal?

A. turn on "Enable TCP Optimization"
B. turn off "Enhance ECMP Keying"
C. turn off "Enable TCP Optimization"
D. turn on "Enhance ECMP Keying"

Answer: A

Explanation:

TCP optimization fine-tunes the processing of TCP data traffic to decrease round-trip latency and improve throughput,

https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/configuration/config-18-2.pdf#page=530

Question: 95

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

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

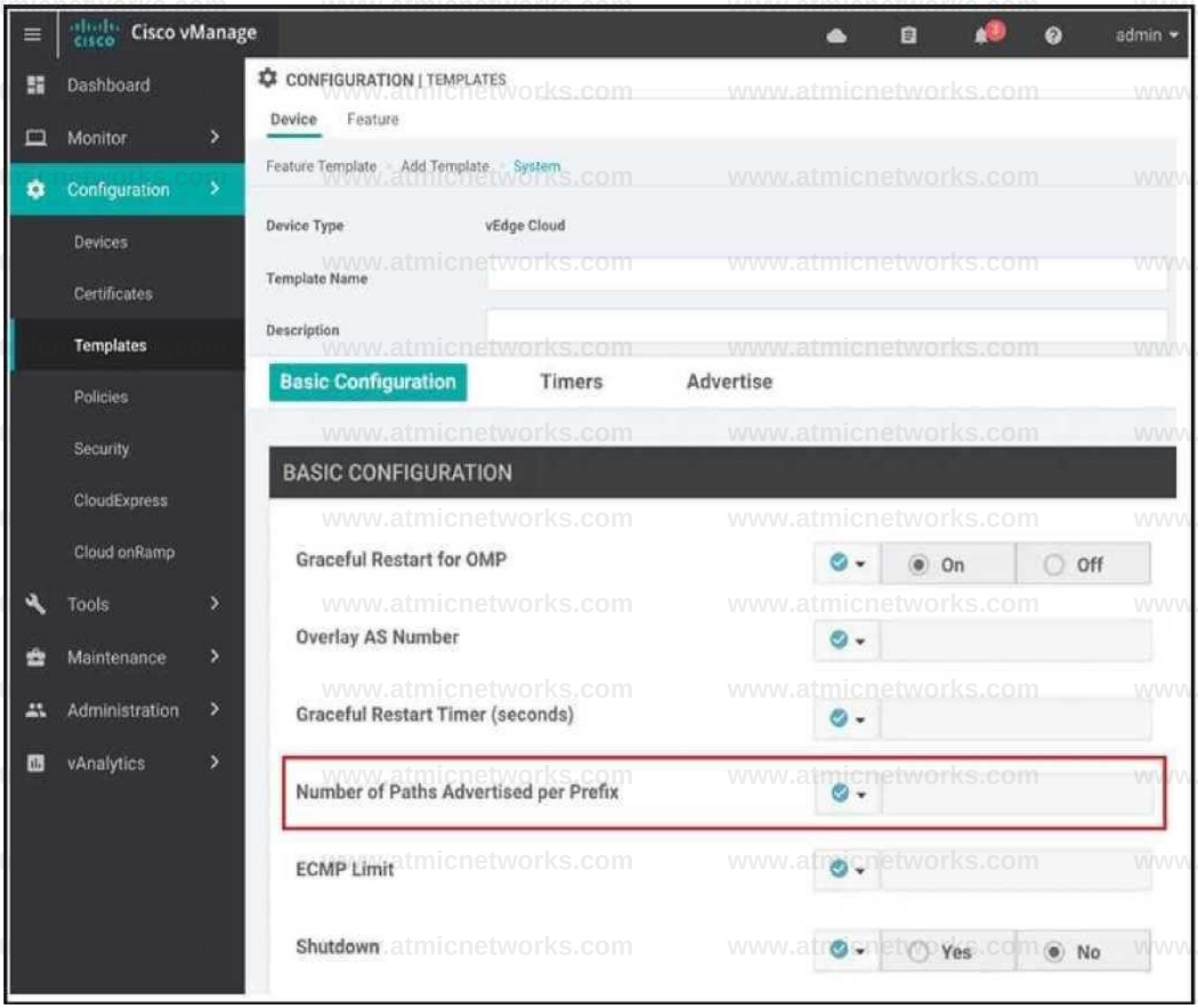
Answer: B

Explanation:

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

Question: 96

Refer to the exhibit.



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

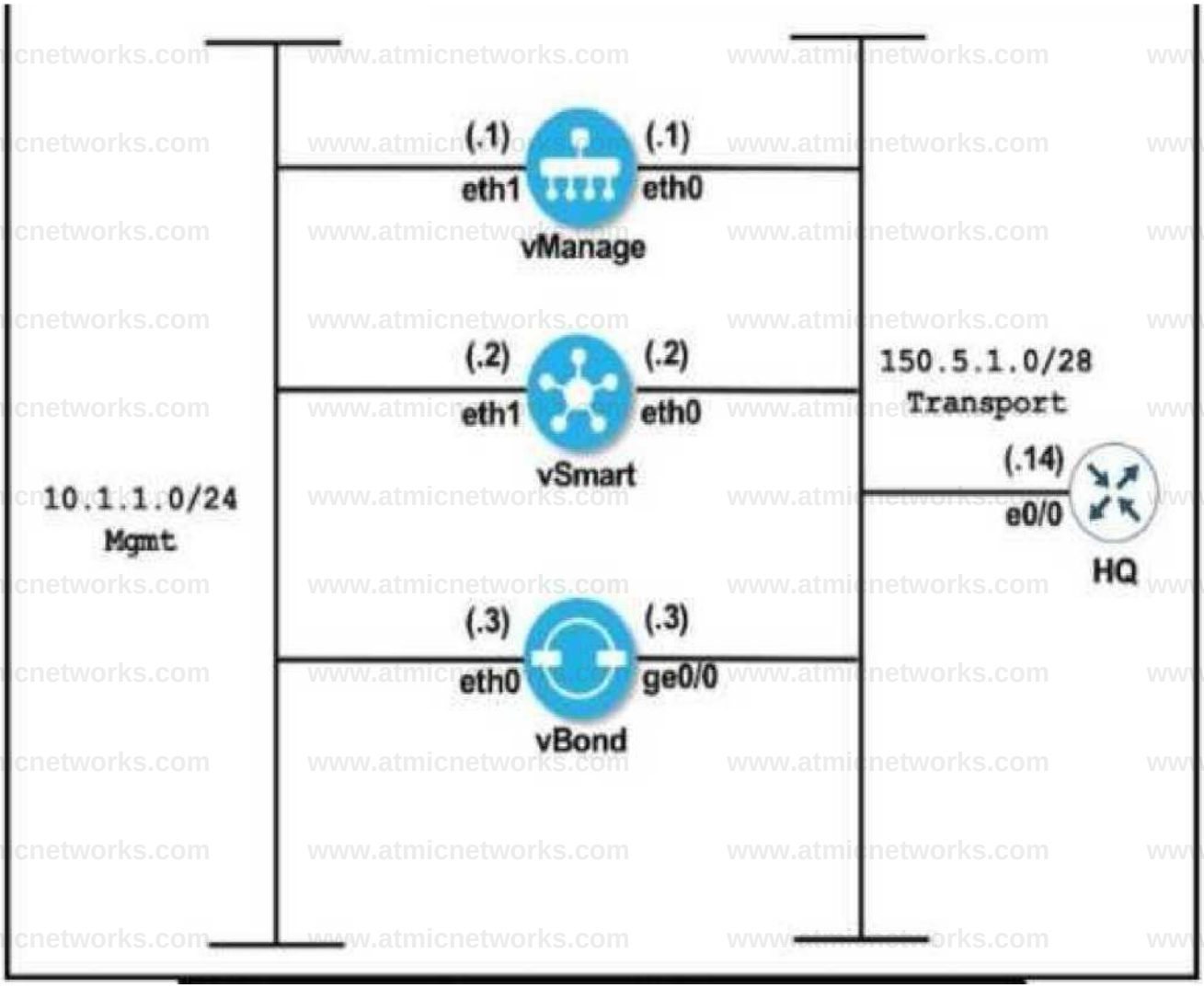
A. 2
B. 3
C. 5
D. 10

Answer: D

Explanation:

Question: 97

Refer to the exhibit.


(.1)
eth1
(.1)
eth0
vManage
(.2)
eth1
(.2)
eth0
vSmart
(.3)
eth0
(.3)
ge0/0
vBond
10.1.1.0/24
Mgmt
150.5.1.0/28
Transport
(.14)
e0/0
HQ

dln*^

lyitM
tyi*«-ip 15 10 Kittl
hc*t MJM rH*:i>j» «xt4~44 1
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littarU - MHO
Ip illt^a ISO.4 1.1/21
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• 1L>* aarvlw ill 1* nata 4 4 0 0/0 iw.l
1 14

OMM t

.Hnvi

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riirh t^4w*M4 ■VTTI=« L^Adrn rtcu ISO 5
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kkiil kiural Lateftara AUPF MF*14a all
ip tusks | C 4 WO 150.5.1.14 1
«*aaii I

wQpnd
«ydr«s
ayaua ip ID 1| 10.103 he it-HUB vWond *it*ni i
41oe± I 11M£2U ±LucafM/Lo-ndfr.
4feM4 LM 5.1 J
bepuluUaH-hM* i. Lit!- UH fl
'F“ 0
mtarl.ua ftdl/0 ip AMrMl LH.I I /.■ M thut t^imal kAtarfaea afW^MlaU^I ipl« allow isrrltw *11
ip Mt* P.O 4.0/4 1W 5 1 14 f
MttMt

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

Answer: A

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:

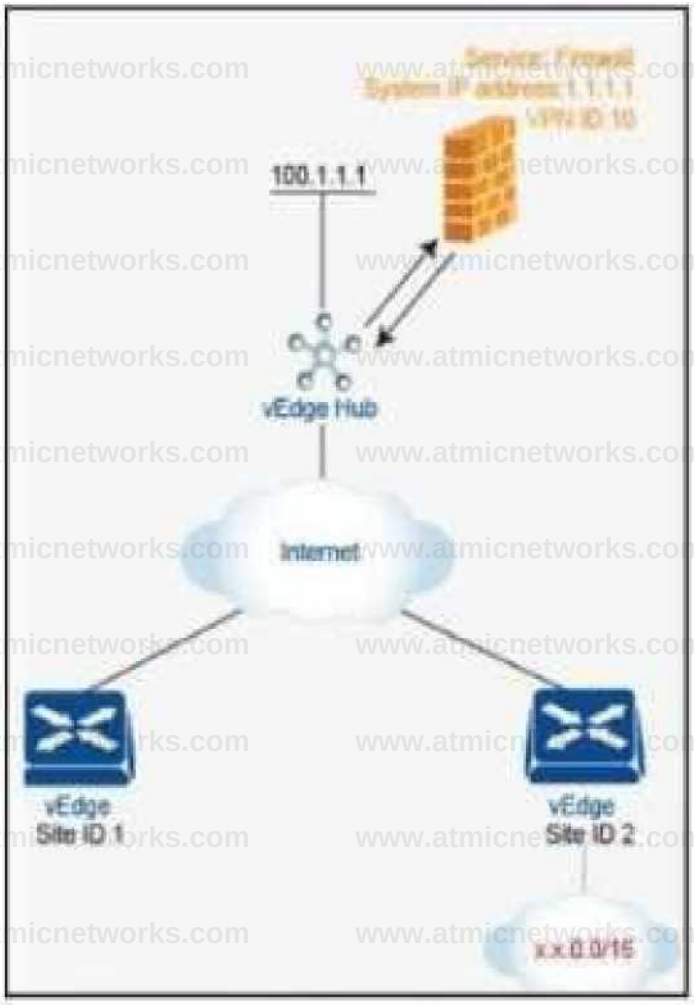
```
vBond(config-system)Hvbond ip~address local
```

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.

www.atmicnetworks.com

Question: 98

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
 wvicf FWaddrtu 1.1 ti
policy
  iSt
  stte-llstfirewoll-sltes
    site id n
 control-policy firewall-service
  sequence 10
    match route
      iht4d 2
    action accept
      set service FW vpn 20
  default-action accept
apply-pollcy
 ilfMst flrewoH-sitH coturpi .policy 0Hwoll4>rvk4 out
```

B)

```
vpn 10
```

```
  service FW address 1.1.1.1
policy
 l tab
  site-list firewall-sues
    site-id 1
 control-policy firewall-service
  sequence 16
    match route
      site-id 2
    action accept
      set Sarrica FW vpn 10
  cehnilt-action accept
apply-poky
 site-fist firewall-sites control-policy firewall service out
```

C)

```
vpn 10
 service FW address 1.1.1.1
policy
 lists
  site -11st frewall -sites
    site-id 1
 control-policy firewall-service
  sequence IQ
    match route
      site-id 2
    action accept
      set service FW vpn 20
  □ Btault-octori accept
apply-pcky
 site .fi sc firewall-si res control-policy firewall -service out
```

D)

```
vpn 10
 service FW address 1.1.1.2 policy
 lists
  site-list firewall-SIUM site-rd 1
 control-policy firewall-servac# sequence ID match route
     site-Id 1 acuon accept set service FW vpn 10 defaulwetion accept apply-pahcy
 site-lut tire wall-sites control-policy firewall-service out
```

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

Answer: B

Explanation:

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

www.atmicnetworks.com

Question: 99

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

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

Answer: D

Explanation:

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

Question: 100

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

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

Answer: B

Explanation:

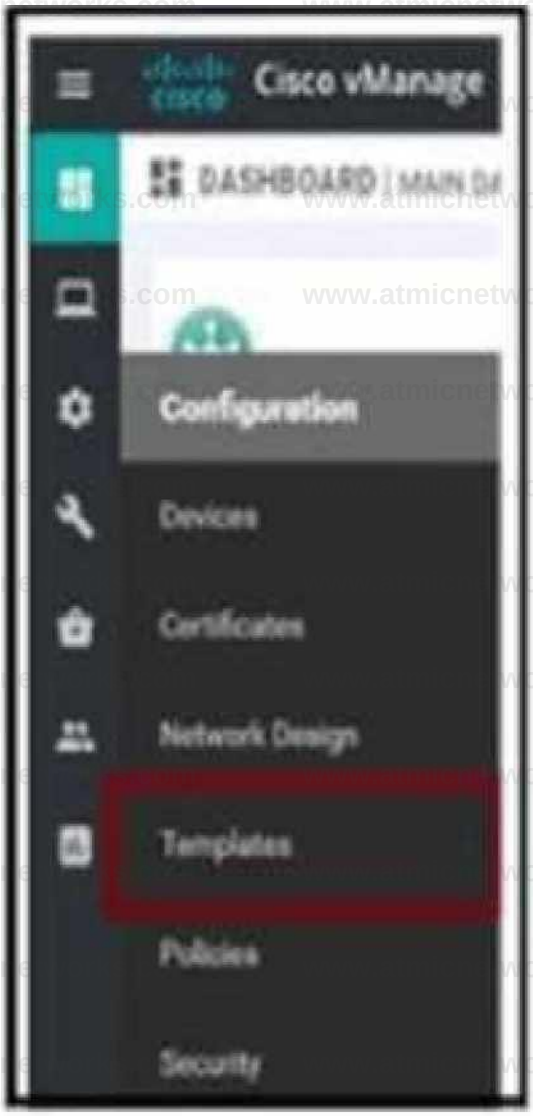
vEdge(config-vxrp)# track-prefix-list *list-name*

If all OMP sessions are lost, VRRPfailover occurs as described for the track-omp option. In addition, if reachability to all the prefixes in the list is lost, VRRPfailover 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: 101

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)


Cisco vManage
DASHBOARD | MAIN DA
Configuration
Devices
Certificates
Network Design
Templates
Policies
Security

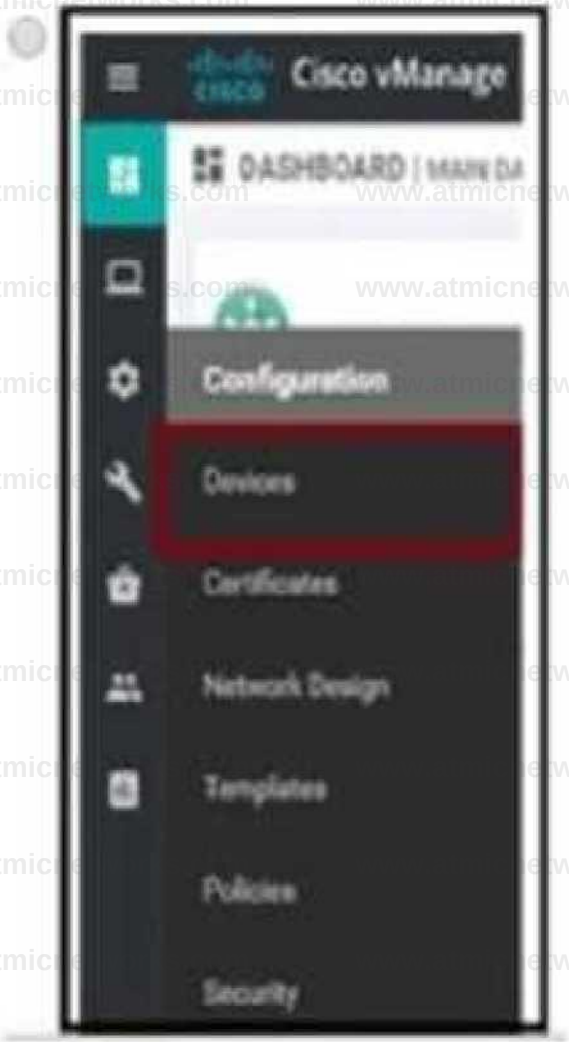
B)

Cisco vManage
DASHBOARD | MAIN DA
Monitor
Geography
Network
Alarms
Events
Audit Log
ACL Log

C)

Cisco vManage
DASHBOARD
Control Status (Total 5)
Control Up
Administration
Settings
Manage Users
Cluster Management

D)



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

Answer: D

Explanation:

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

Question: 102

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

A. HP ProLiant DL360 Generatton10 running HP-UX
B. Cisco ENCS 5000 Series
C. Sun SPARC Node running AIX

D. Cisco UCS
E. Sun Enterprise M4000 Server running Sun Solans

Answer: B,D

Explanation:

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

Question: 103

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

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

Answer: A

Explanation:

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

Question: 104

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

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

Answer: A

Explanation:

Question: 105

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

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

Answer: D

Explanation:

TCP Optimization

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

Question: 106

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

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

Answer: A

Explanation:

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

Question: 107

Refer to the exhibit.

```
                                                                                  PEER                    PEER
         PEER     PEER     PEER              SITE        DOMAIN PEER              PRIVATE  PEER            PUBLIC
LOCAL      REMOTE     REPEAT
INSTANCE TYPE     PROTOCOL SYSTEM IP         ID          ID     PRIVATE IP        PORT     PUBLIC IP        PORT
REMOTE COLOR     STATE           ERROR       ERROR      COUNT DOWNTIME
------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------
0        vsmart   tls      1.1.1.3          100         1      100.1.1.3         23456    100.1.1.3        23456
default          trying          DCONFAIL    NOERR      10001 2020-01-01T10:01:20+0000
```

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

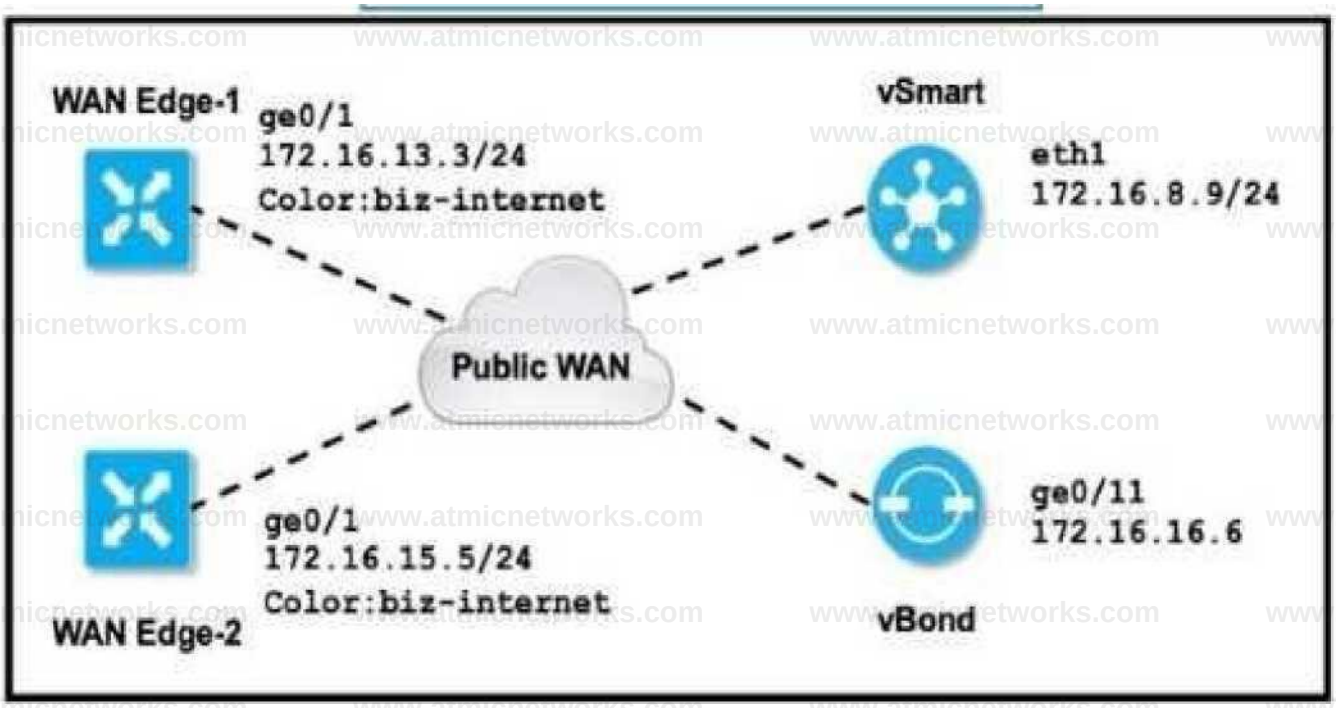
Answer: D

Explanation:

https://www.cisco.com/c/en/us/support/docs/routers/sd-wan/214509-troubleshoot-control- connections.html

Question: 108

Refer to the exhibit.



The tunnel interface configuration on both WAN Edge routers is:

```
vpn 0
  interface QtC'i hinnel^nwrface
    encapsulation lpMC color bii-lmemet ■howwvict dhtp jlfaMMWYIH dnt a:low-service temp naaliow-service
    jjtid no allow-service ntp no allow-iarvicE stun
```

```
no ihutdovm
```

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

```
vpn 0
 interfaca gaO/1
   Ip address 172 IMIHM

 ip route 0.0.0.0.u t72.i6J3.i

vpn 0
 interface geOd
   Ip address 172 16.13.3/24

 ^ routed OQu 17216.13.1

vpn 0
 interface geOM
   ip address 172.16.13.3/24

lpmt?D0.mi?:.16M

vpn 0
 interface geOM
   Ip address 172 16.14.6'24

 ip route 0.0 0.0,0172.16.8 1
```

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

Answer: B

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/02System_and_Interfaces/07Network_Interface_Configuration_Examples

Question: 109

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 ISO
    graceful-re start-timer 43200
```

```
omp
  timers
    adverb semen:-interval 1
    holdtime 180
    graceful-re st art-timer 43200
```

```
omp
  timers
    advertisement-interval 1
    holdtime 180
    graceful-re start-timer 720
```

```
omp
  timers
    advertisement-interval 60
    holdtime 60
    graceful-re start-timer 720
```

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

Answer: A

Explanation:

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

Question: 110

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

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

Answer: B

Explanation:

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

Question: 111

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 modem age core banking system
D. implementation of BGP across the enterprise routing for selecting optimal path

Answer: B

Explanation:

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

Question: 112

Refer to exhibit.

```
PEER     PEER     PEER              SITE        DOMAIN
PEER              PRIVATE  PEER              PUBLIC                                  LOCAL      REMOTE     REPEAT
INSTANCE TYPE     PROTOCOL SYSTEM IP         ID          ID     PRIVATE IP       PORT     PUBLIC IP        PORT    REMOTE
COLOR     STATE            ERROR      ERROR      COUNT DOWNTIME
-----------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------
0        vbond    dtls     0.0.0.0          0          0      192.168.0.231    12346    192.168.0.231    12346   default          tea
r_down       CRTREJSER  NOERR      9     2019-06-01T19:06:32+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

Answer: C,D

Explanation:

https://community.cisco.com/t5/networking-documents/sd-wan-routers-troubleshoot-control- connections/ta-p/3813237

Question: 113

Refer to the exhibit.

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

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

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

A. 9

B. 9000
C. 90000
D. 9000000

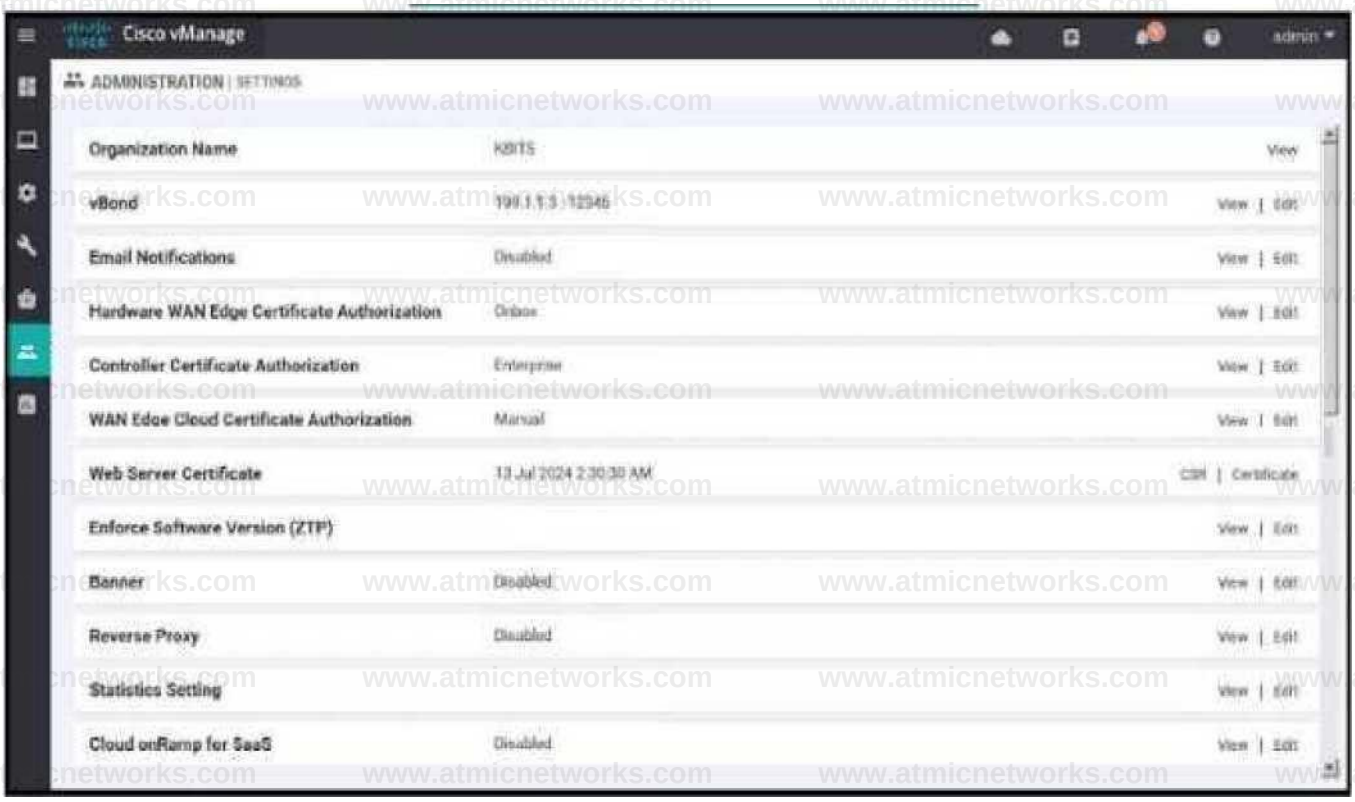
Answer: B

Explanation:

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

Question: 114

Refer to the exhibit.



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

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

Answer: A,E

Explanation:

www.atmicnetworks.com

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

Question: 115

Refer to the exhibit.

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 busts exceed 20 MB. Traffic should be redirected to the second WAN interface ge0/1. Which set of configurations accomplishes this task?

A)

```
peiloer bur*ly-tr«ttic
  zdU I... .h.
  bu«t aww
  wm«d 'it up
i^rf^-bjt pqiiwT-bflrirti^-tr^fis
  w-qucnc* ID
    Htefi
      PWT4" ip ■ ¹-$. I. '.■'■ 4
    ■Hzliutl iLcapl ^6]Lera bu r sly ■ 1 rif t L t ■ <tal*ult-nUU«i lectpr.
```

B)

```
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
```

C)

```
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
```

D)

www.atmicnetworks.com

```
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
```

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

Answer: C

Explanation:

```
policy
  policer bursty-traffic rate 1000000 burst 2000 0
    exceed remark
  access-list policer-bursty-traffic sequence 10
      mat ch source-ip 55.0.1.0/24 action accept
        policer bursty-traffic default-action accept
```

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

Question: 116

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

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

Answer: C,D

Explanation:

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

Question: 117

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

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

Answer: A

Explanation:

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

www.atmicnetworks.com

Question: 118

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

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

Answer: D

Explanation:

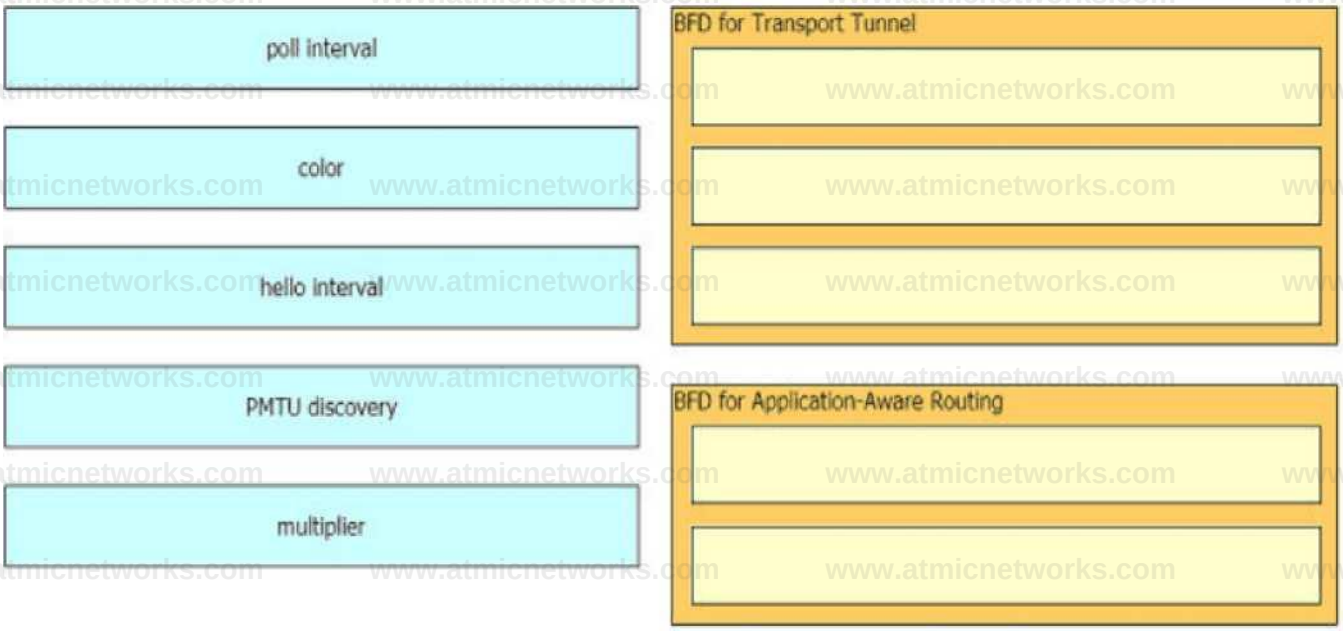
. Use the **auto** setting on any PoE port. The auto mode is the default setting.

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

Question: 119

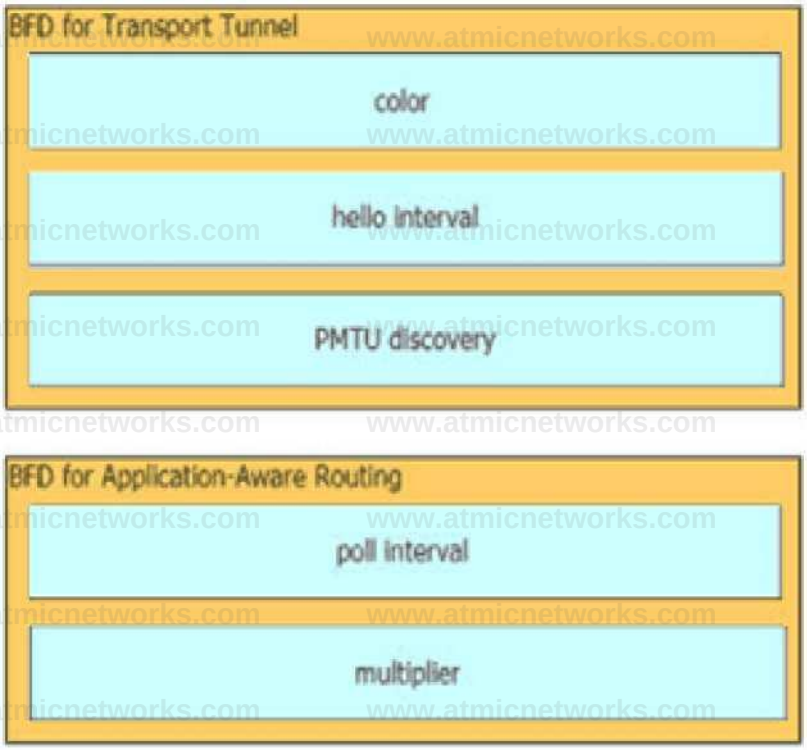
DRAG DROP

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



Answer:

Explanation:



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

Question: 120

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

A. Data
B. Orchestration

C. Management
D. Control

Answer: B

Explanation:

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

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

Question: 121

Refer to the exhibit.

```
/Edge-C loud?
/Edge-cloud#
/Edge-Cloud# vshell
v£dge~Cloud:~$ cd /var/log/ vEdge-Cloud:/var/log$ /Edge-C 1 oud:/var/1 og$ Is -1 total 28992
|-rw-r--r--    1  root    root    1441700  NOV  22  15:13  auth.log
|-rw-r--r--    1  basic   a dm          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  swscript^active.log
|-rw-r--r--    1  root    root        382  Nov  22  14:48  sw_script_previous.Io
|-rw-r--r--    1  root    root       2004  NOV  22  14:49  sw_script_synccdb.log
|-rw-- ..............  1  root    root      64064 Nov  22  15:07  tallylog
|drwxr-xr-x    2  root    root         60  Nov  22  14:48  t nip log
|-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
.'Edge-Cloud: /var/logS vEdoe-C loud: A ar loq$
```

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

```
logs
  audit disable
  netcon (disable

logs
  netconfdisable

 togging
 disk netconf-disable

logging
 disk
  audit-disable
  np lr nn f-H i t ah IP
```

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

Answer: B

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/config- cmd.html#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: 122

Refer to the exhibit.

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

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

Answer: D

Explanation:

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

Question: 123

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

A. 64
B. 128
C. 256

D. 8

Answer: B

Explanation:

In the Add Tenant window:

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

Question: 124

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

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

Answer: C

Explanation:

Centralized Policy

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

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

Question: 125

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

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

Answer: A

Explanation:

For data

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

Question: 126

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

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

Answer: D

Explanation:

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

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

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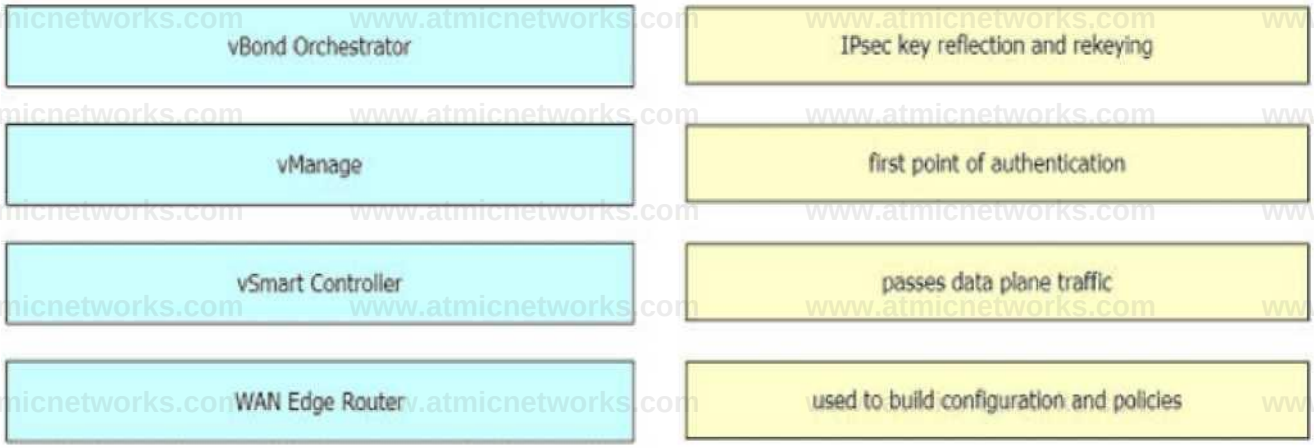
Question: 127

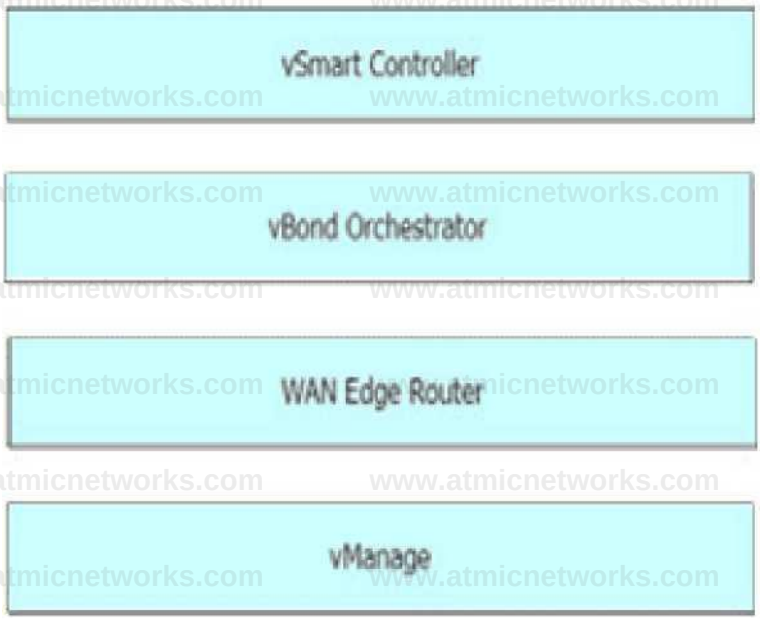
DRAG DROP

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



Answer:

Explanation:



Question: 128

Which two features does the application firewall provide? (Choose two.)

A. classification of 1400+ layer 7 applications
B. blocks traffic by application or application-family
C. numbered sequences of match-action pairs
D. classification of 1000+ layer 4 applications
E. application match parameters

Answer: A,B

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: 129

Refer to the exhibit.

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

m* 0.0.0.0/0 [251/0] via 10.1.9.2, 06:10:53
                     [251/0] via 10.1.9.3, 06:10:53
O          10.80.6.0/24
           [110/300] via 172.19.75.78, 20:35:33, GigabitEthernet0/0/2.10
           [110/300] via 172.19.75.66, IwOd, GigabitEthernetO/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, IwOd, GigabitEthernet0/0/l.ll
```

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.

Answer: B,C

Explanation:

Question: 130

Refer to the exhibit.

from-^mart data policy 1 ServirelsertitrnlPS^ direction fro ruse nice

Vpn lb I1

sequence 1

tu.itch destination ip 64.102.6.24" 52

■etna accept Ml service aeUvcl servica local dpbiih-arlinn accept

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

vpn 1
service netsvcl interface ipsed ipsec2

vpn-iist 1
count ServicePSed_275676046
from-vsmart Into vpn-iist i
vpn 1

vpn 0
service netsvcl interface ipsed ipsecZ

frotiHramirt lists vpn-iist 0
vpn 0

vpnl
service netsvcl interface ipsed ipsec2

fromvsmart lists vpn4l&t 1
vpnl

vpn 0
service netsvcl interface ipsed ipsec2

vpn-iist 1
oount ^ivicAPSitd_775STfln4$
frnm-vsmart fists vpn-iist 0

VDDJQ

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

D. Option D

Answer: C

Explanation:

Question: 131

Refer to the exhibit.

```
Site 1:
vpn 10
      service FW address 1.1.1.1

On vSmart
policy
 lists
  site-list firewall-sites
   site-id 1

apply-policy
 site-list firewall-sites control-policy firewall-service out
```

Refer to the exhibit, Which configuration routes Site 2 through the firewall in Site 1?

control-policy firewall-service sequence ID 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 delault-action accent

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

Answer: D

Explanation:

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

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Question: 132

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?

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```
vpn 0
router
 ospf
   redistribute omp route-policy OSPFRoutePolicy area 0
   interlace geO/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 typel

vpn 0
router
 ospf
   redistribute omp route-policy OSPF Route Policy area 0
   interface geO/2 exit
 lists
 prefix-list W2 Loopback
   ip-prefix 10.10.10.5/32
 j
 route-policy OSPF_Route_Policy
 sequence 1
   match
   aHrirpcc W7 I nnnhark

     metric-type typel
Wb I hl ft dipt ndhinbula mip rwh>p4Myi.0ltt Haute FoM tew 6
 Interfit* uvUtf
  *M
Mil
 PfflifcJll WV kn^nh*rk iMttrti 10,1011 tell

 fH*>potwM*P Rtfiiir Fuiitv
 MquinM 1
 Mlkh tdrinwHl Loogbith

 Mb* Mtfpi

  ■WHO IK
  ■wfnaJypt'tyP*!
vpp 10
```

UM **" IINIM WM M"1"
IIHIWI
a»pi trihMbut>< anq rootofoHa^ O#F ppute Foteev MN 4
intertill QIM IRII
MI
^TI.! h> *3 k.UUIJI^.1
Mte* iirtubU

rwte'MKv O>w HIMW Fofcri
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Ulp
IMUtMtflt rulni IMIW ^IIAy MFF RWfct PalKV m(interfit! Of 11J
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piri.i i|n W; |X4«bH<l
UHIIH i 10,1010^

touta-potea^ Dtn n^./aiify wqufnH 1 nun
mditiLhv.' mw&Mh

rtiwi K*MI
MI
Htta I#
■nitari rik» I^ptl

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

Answer: D

Explanation:

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

Question: 133

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

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

Answer: B

Explanation:

```
vedge#
vedge* vedge* request vedge-cloud activate chassis-number 19f2059b-5fdl-9027-a66S-24c33d223247 token 22*eKb3a8c22d8269725dlcb495b718|
```

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Question: 134

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

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

Answer: D

Explanation:

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

Question: 135

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

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

Answer: D

Explanation:

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

Question: 136

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

A. vManage
B. vSmart Controler
C. vBond Orchestrator

D. WAN Edge Router

Answer: B

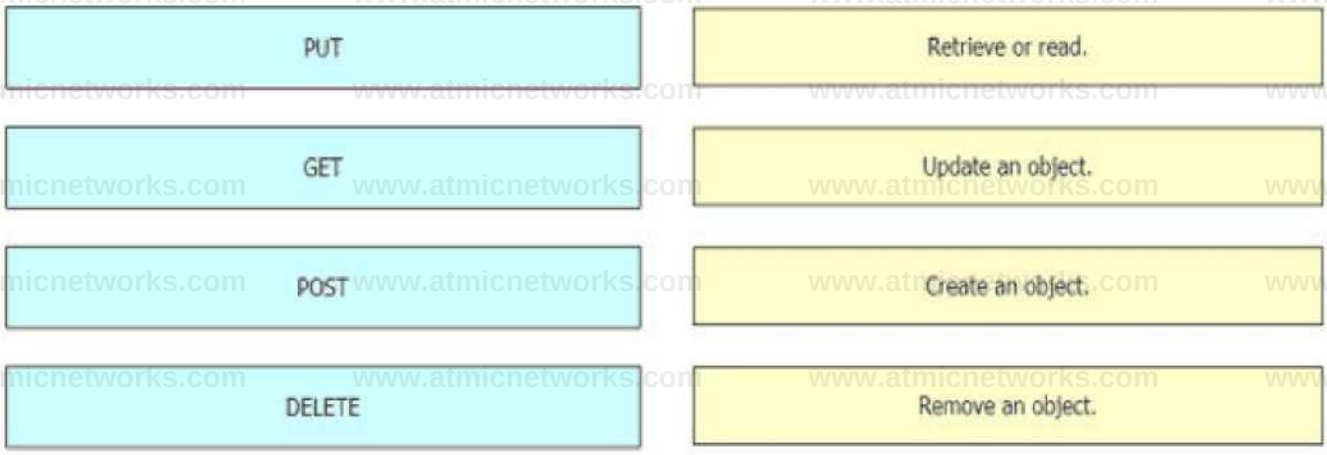
Explanation:

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

Question: 137

DRAG DROP

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



Answer:

Explanation:

GET: Get resource from the server.

POST: Create resource to the server.

PATCH or **PUT:** Update existing resource on the server.

DELETE: Delete existing resource from the server.

Question: 138

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

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

Answer: C

Explanation:

Runbook to Request and Install Cisco PKI Certificates

1. Verify that you have satisfied the prerequisites and that you have added the Smart Account credentials
2. Navigate to Administration ► Settings ► Controller Certificate Authorization and press Edit.
3. Select the radio button Cisco Automated (Recommended).

Question: 139

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

Answer: C

Explanation:

Netconf and CLI-Netconf is a standards-based protocol used by Cisco vManage to provision a Cisco vSmart Controller.

Question: 140

Which component is responsible for routing protocols such as BGP and OSPF in a Cisco SD-WAN solution?

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

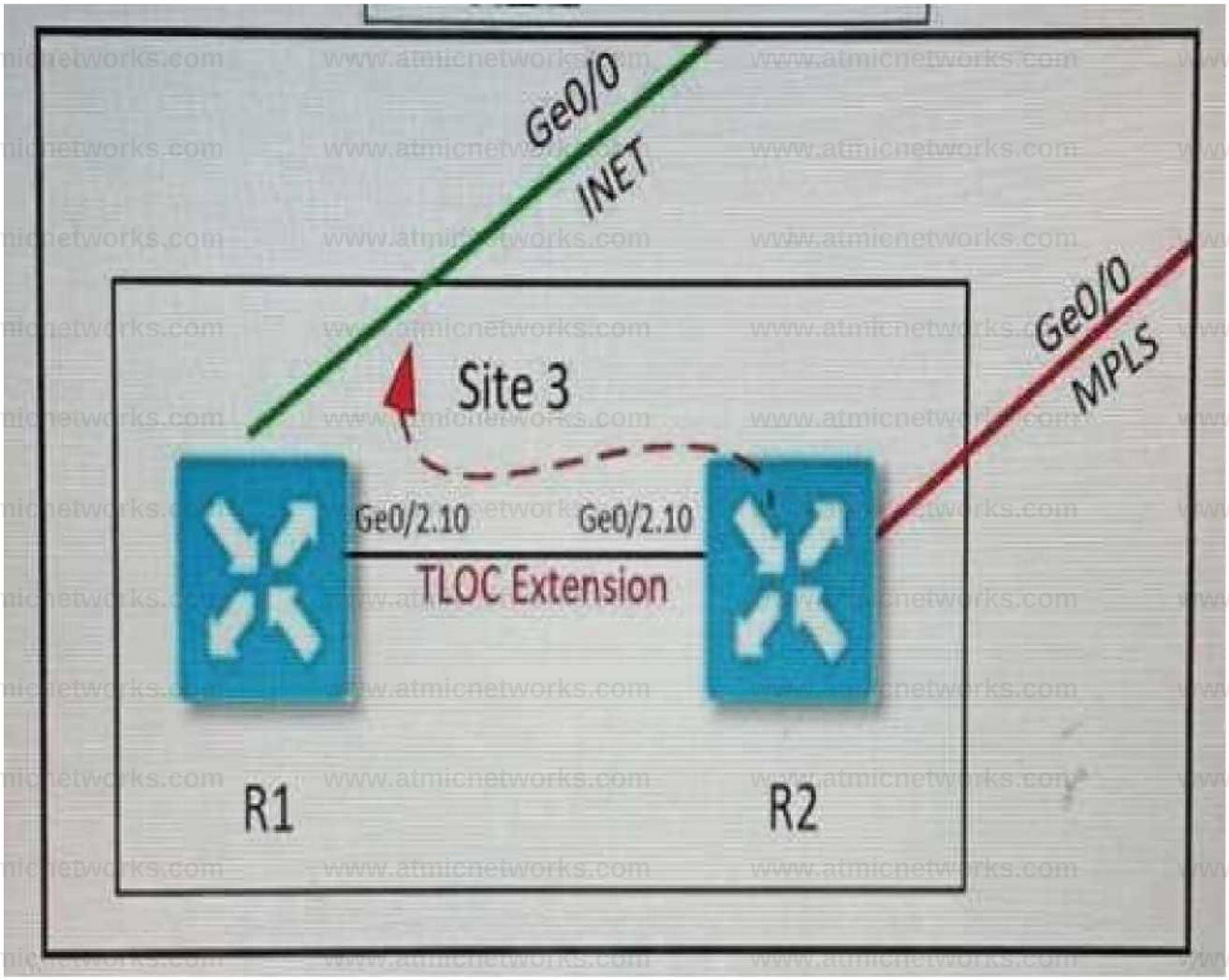
Answer: D

Explanation:

WAN Edge router - This device, available as either a hardware appliance or software-based router, sits at a physical site or in the cloud and provides secure data plane connectivity among the sites over one or more WAN transports. It is responsible for traffic forwarding, security, encryption, quality of service (QoS), routing protocols such as Border Gateway Protocol (BGP) and Open Shortest Path First (OSPF), and more.

Question: 141

Refer to the exhibit.



Refer to the exhibit. Which configuration extends the INET interface on R1 to be used by R2 for control and data connections?

A)

```
RI
lritvrfKt fl*Wi‘ M » hutdown

 *to t h utdcwn
lnt*rfac* je<M2 10
 lp jddnKt 43,.ij 43.2/30 iJpc^tUfliidngeD®

Ri
hnerhfld B*^
  intu 1SW no thiMte^n
```

```
Interfiled fl*O£ W i^iMwiiJa 43 43&N tiu-txtiMtan (fM
```

```
lM«rf»C« fr*O/2 n» ihutdown

Inttrf*c* f*W2 10 Ip *dd<*»* 43 43 43 mil fist-sHenkleri fdM
```

B)

```
Ri iniBrfjc* p*W?
Interface g*0/2 10
  Ip addrett 43 43 43,2130 do<*«xtMMton flvOC tunntHnterffr:*
    color publte'lMdmM


  interface 8*0/2
  Interfax* g*0£ 10
    |paHn»4343 43 IftO wnn«hlntorface
      cst^r puhlwJNMH**1
```

C)

```
Hl
 ifrtdrfK* Qı#0J3 mlu 1604
```

Answer: C

Explanation:

https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKRST-2091.pdf
Subinterfaces require a physical, parent interface to be defined in VPN 0, and also require the subinterface MTU to be four bytes lower than the physical interface due to the 802.1q tag. It is recommended to configure the parent physical interface for an MTU of 1504 to take care of this requirement.

Question: 142

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

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

Answer: B

Explanation:

Replicators

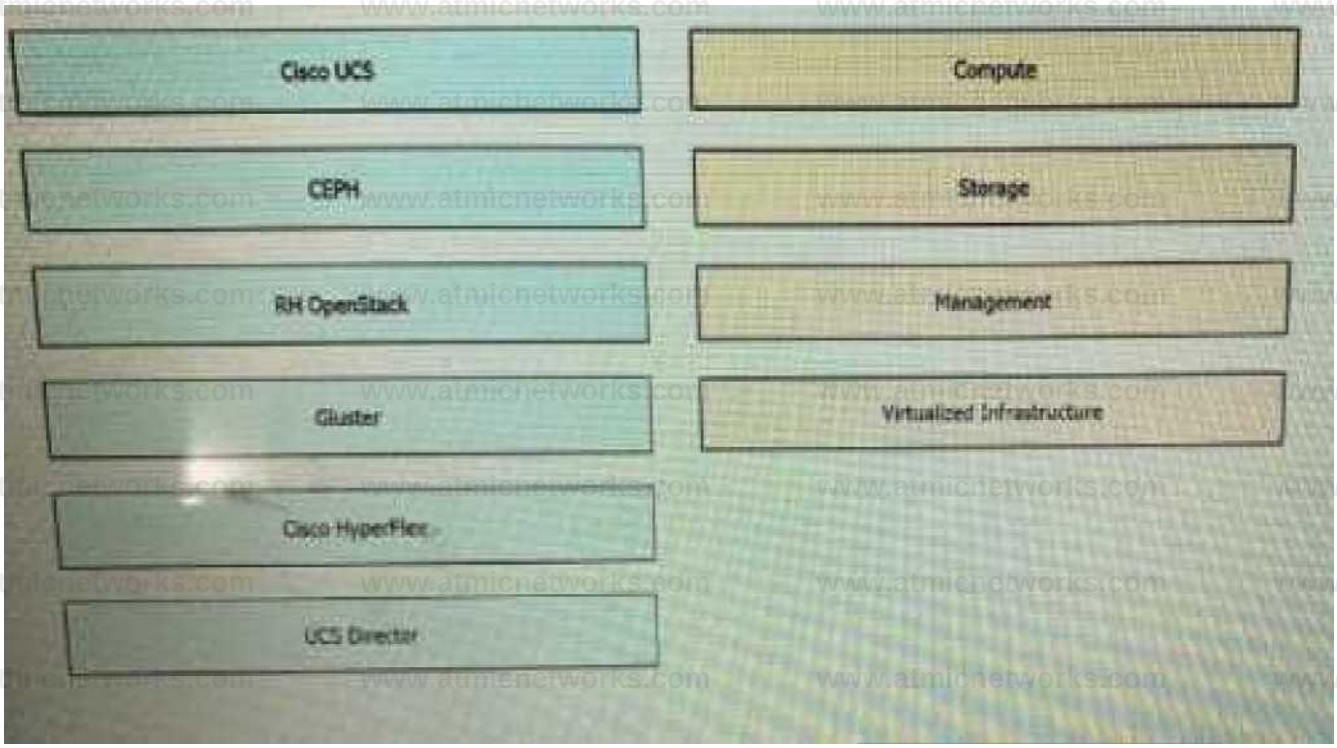
For efficient use of WAN bandwidth, strategic Cisco SD-WAN routers can be deployed and configured as replicators throughout the overlay network Replicators mitigate the requirement for a Cisco SD-WAN router with local sources or the PIM-RP to replicate a multicast stream once for each receiver. As discussed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

the PIM-enabled Cisco IOS XE SD-WAN routers that are in the same VPN as the replicator.

Question: 143

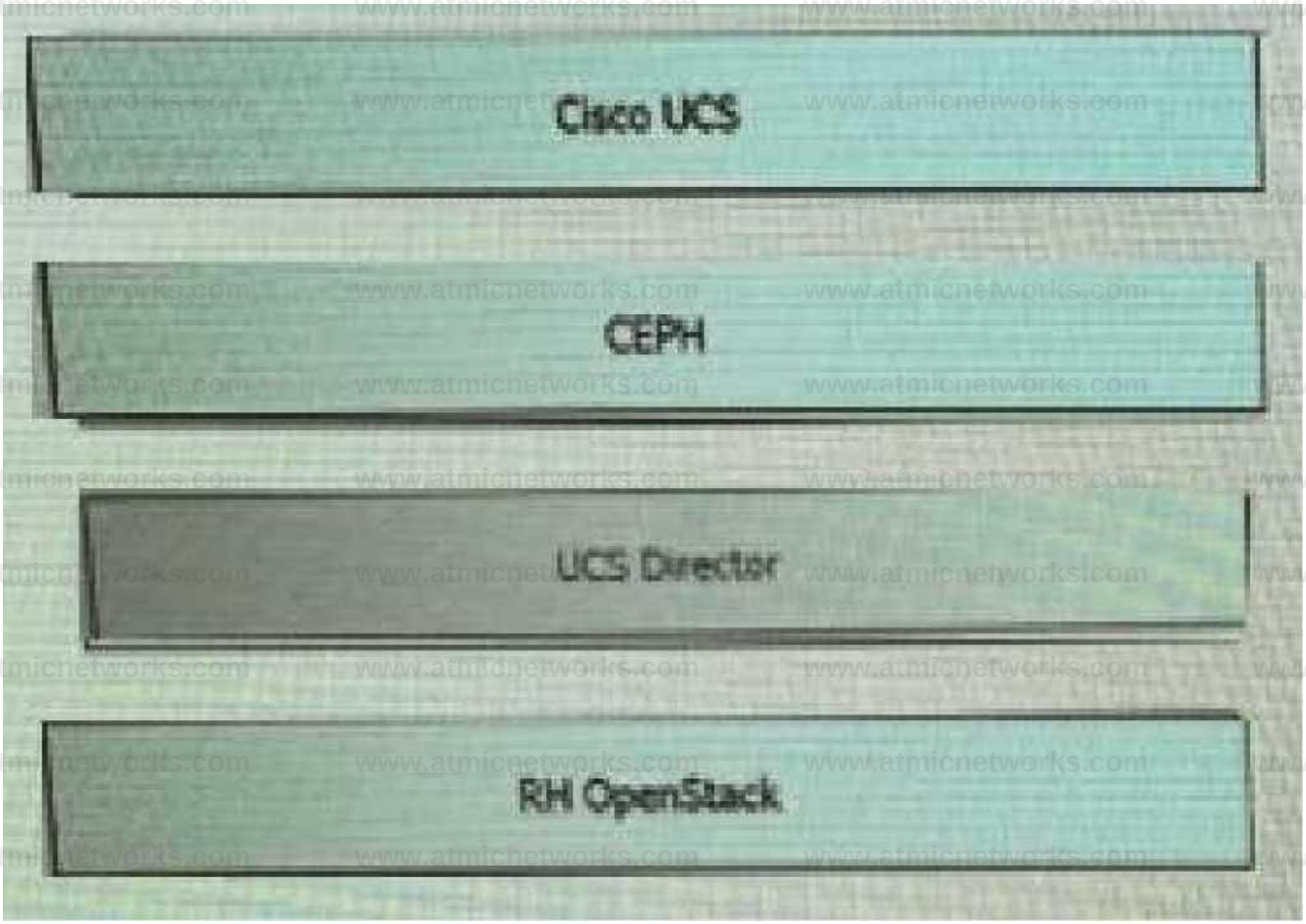
DRAG DROP

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



Answer:

Explanation:



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Cisco NFV Infrastructure Building Blocks

- Compute: Cisco Unified Computing System™ (Cisco UCS®) for a carrier class and reliable compute infrastructure.
- Storage: Cisco UCS hardware and CEPH provide reliable storage. The user has the options to introduce additional storage as capacity needs grow.
- Networking: Cisco Nexus® 9000 series hardware provides high throughput, low latency, and rich feature sets.
- Virtualized Infrastructure: Fully integrated Red Hat Enterprise Linux and Red Hat OpenStack Platform runs on top of Cisco Unified Computing System™ (Cisco UCS®). It is open source yet hardened and mature.
- Management: Cisco UCS Director functions as a unified management tool across multiple virtual environments. SDN controller is optional.

Question: 144

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

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

Answer: B,C

Explanation:

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

Question: 145

Which feature allows reachability to an organization's internally hosted application for an active DNS security policy on a device?

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

Answer: A

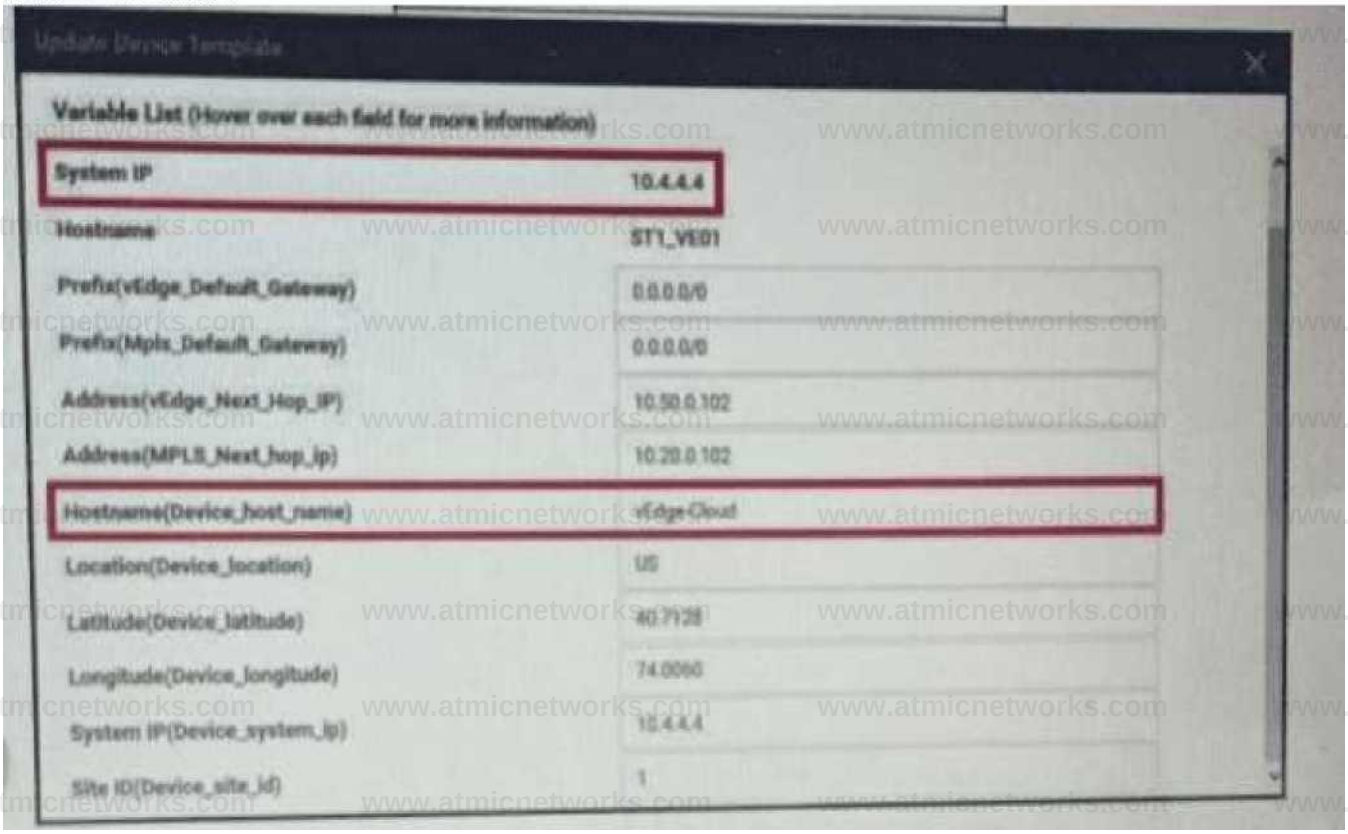
Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/ios-xe-16/security-book-xe/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: 146

Refer to the exhibit.



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)

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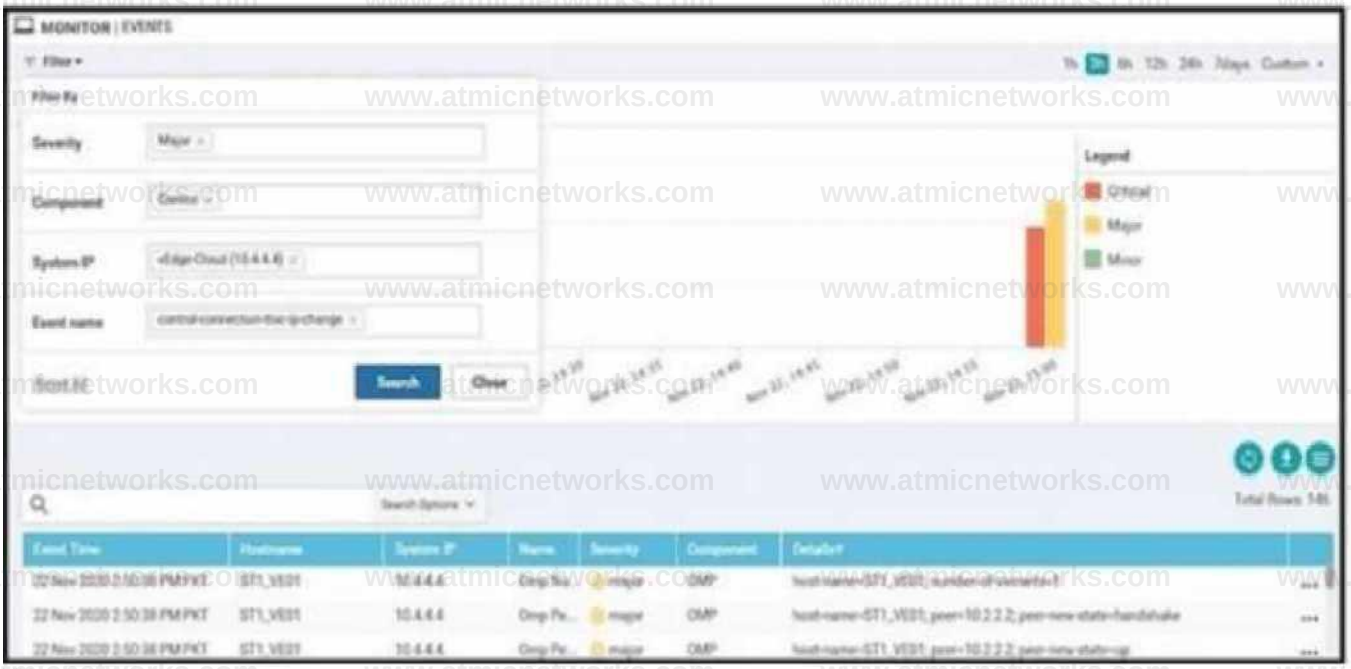
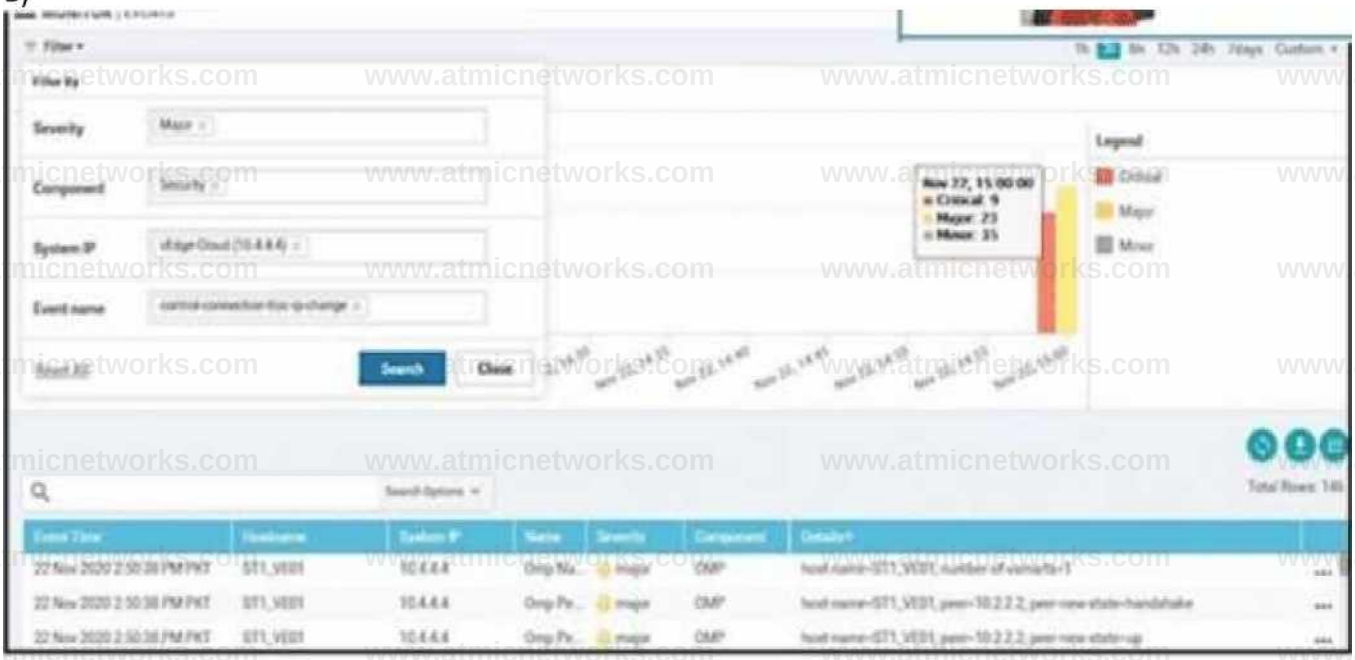
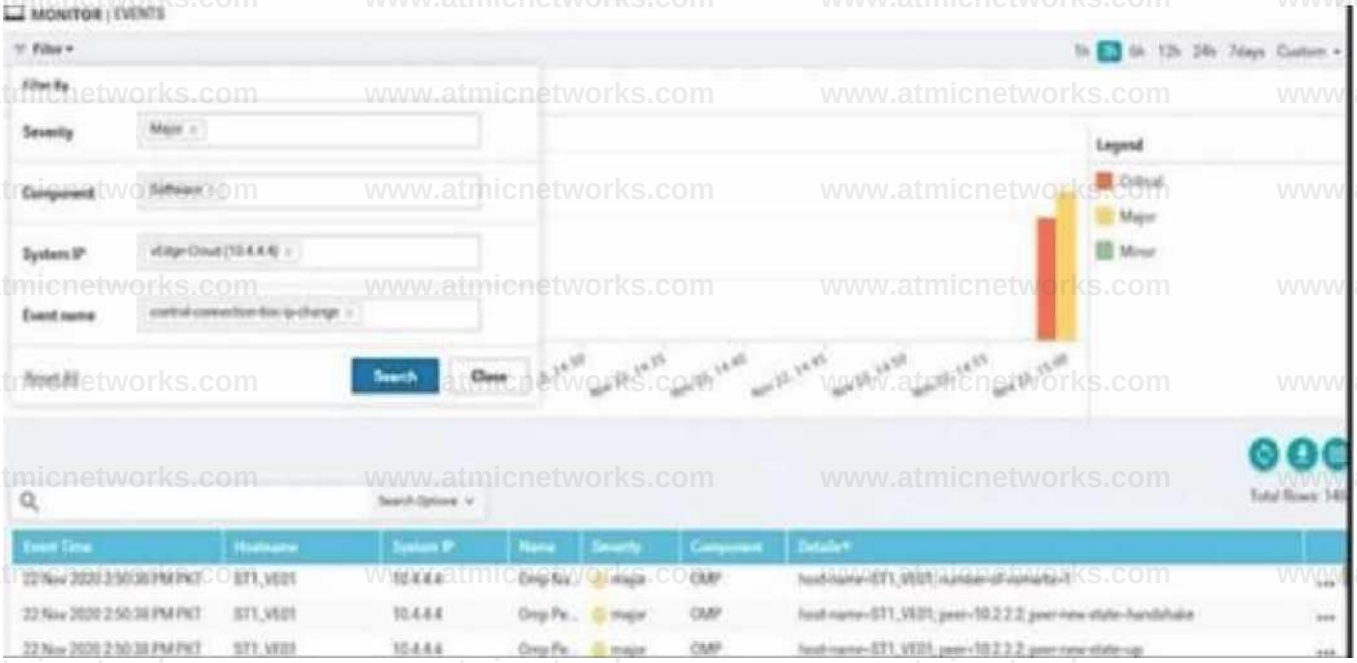


B)



C)



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

Answer: B

Explanation:

Question: 147

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 extensiontar.gz
D. one file for vManaga and one file for all other devices with extension .bin

Answer: C

Explanation:

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

Question: 148

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

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

Answer: B,D

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: 149

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 Chaning
C. Cloud onRamp for Colocation
D. Cloud onRamp for IaaS

Answer: C

Explanation:

https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cisco- sd-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 m colocation facilities

Question: 150

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

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

Answer: A,E

Explanation:

Supported Protocols

This section explains the protocols supported for unicast routing

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

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

Question: 151

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

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

Answer: B

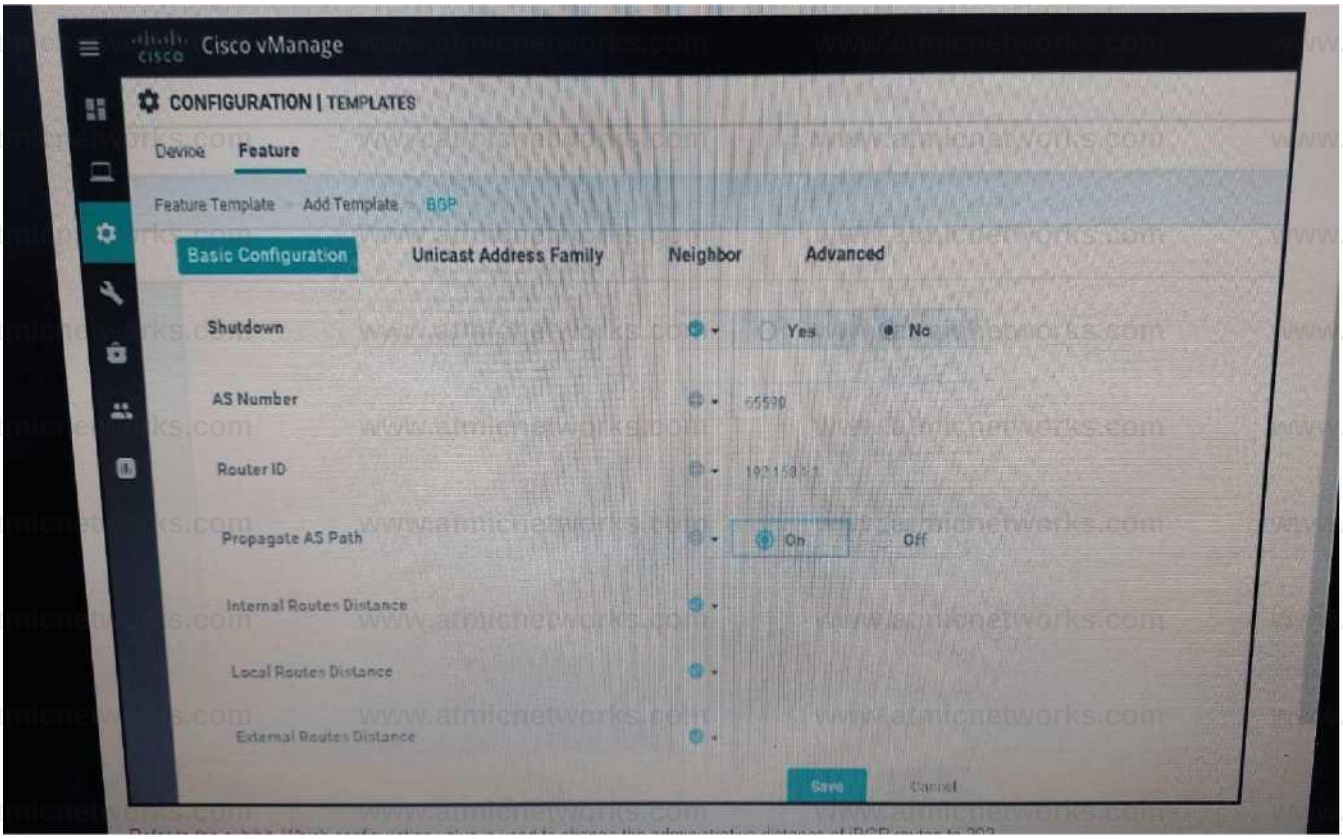
Explanation:

In the Add Tenant window:

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

Question: 152

Refer to the exhibit.



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

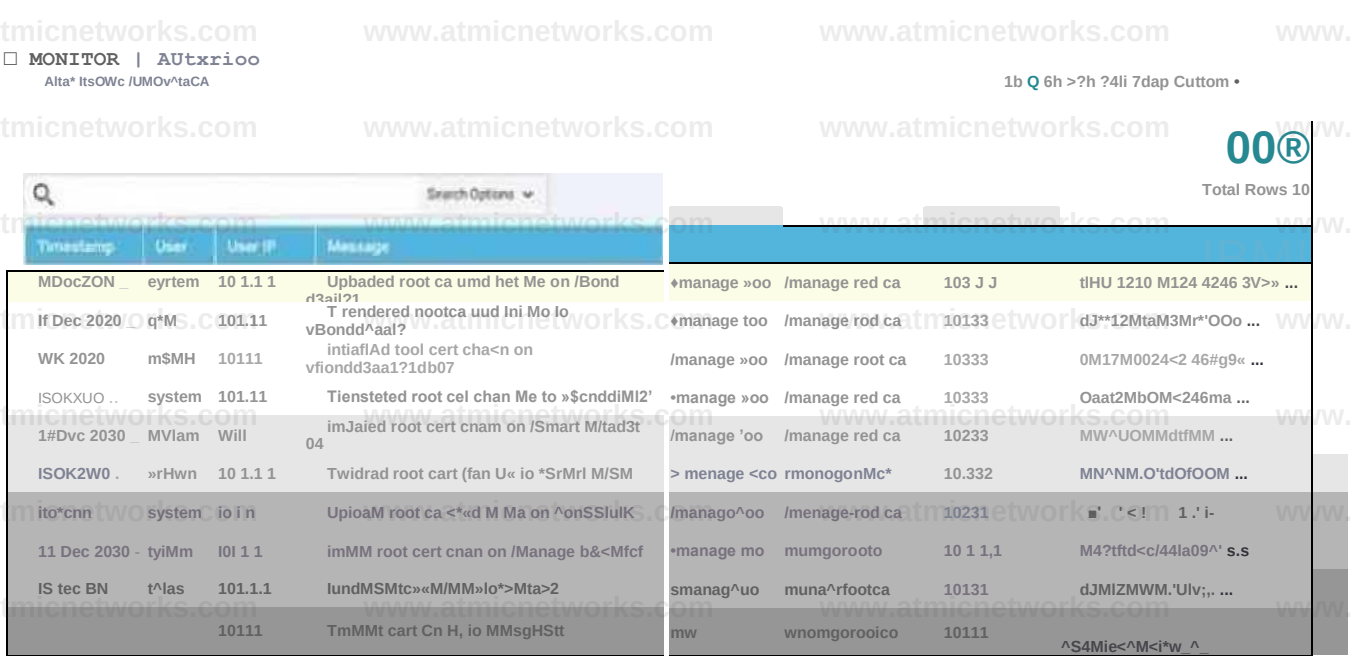
A. Configure internal Routes Distance to 20
B. Configure Propagate AS Path to off
C. Configure Local Distance to 20
D. Configure External routes distance 20

Answer: C

Explanation:

Question: 153

Refer to the exhibit.




```
vManage# show certificate installed

Server certificate

Certificate:
    Data:
        Version: 1 (0x0)
        Serial Number:
            dO:dl:fO:eO: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-6842d5cf-ce74-41a0-9ff5- 10e810f9ddab-
0.vm
        Subiect Public Kev 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

Stepn **Gorwat* ht** RMICA Certificate

Yttin|f*|<iptniil nq -xi&3 -nnw -nodfia -k*y llOiJTtX icy -shn2Cfi
**-days 1H0 **

**-•llibJ */M!l(/tMn/lriIMd4ll/(MIC/ate ^ DM AN 1 At - **

-Mt FOCTCA pM

8hp2: **install ire RaoEA** Certificate

vManage > Adminitlra'jM > Sell nq& > Cunbctac Ctn^cjlo Authonzai^n *
Symantec Alternated (RMonnwriwl)

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

Answer: C

Explanation:

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

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

Question: 154

What is a requirement for a WAN Edge to reach vManage, vBond, and vSmart controllers in a data center?

A. IGP
B. QoS
C. TLS
D. OMP

Answer: A

Explanation:

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

Question: 155

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

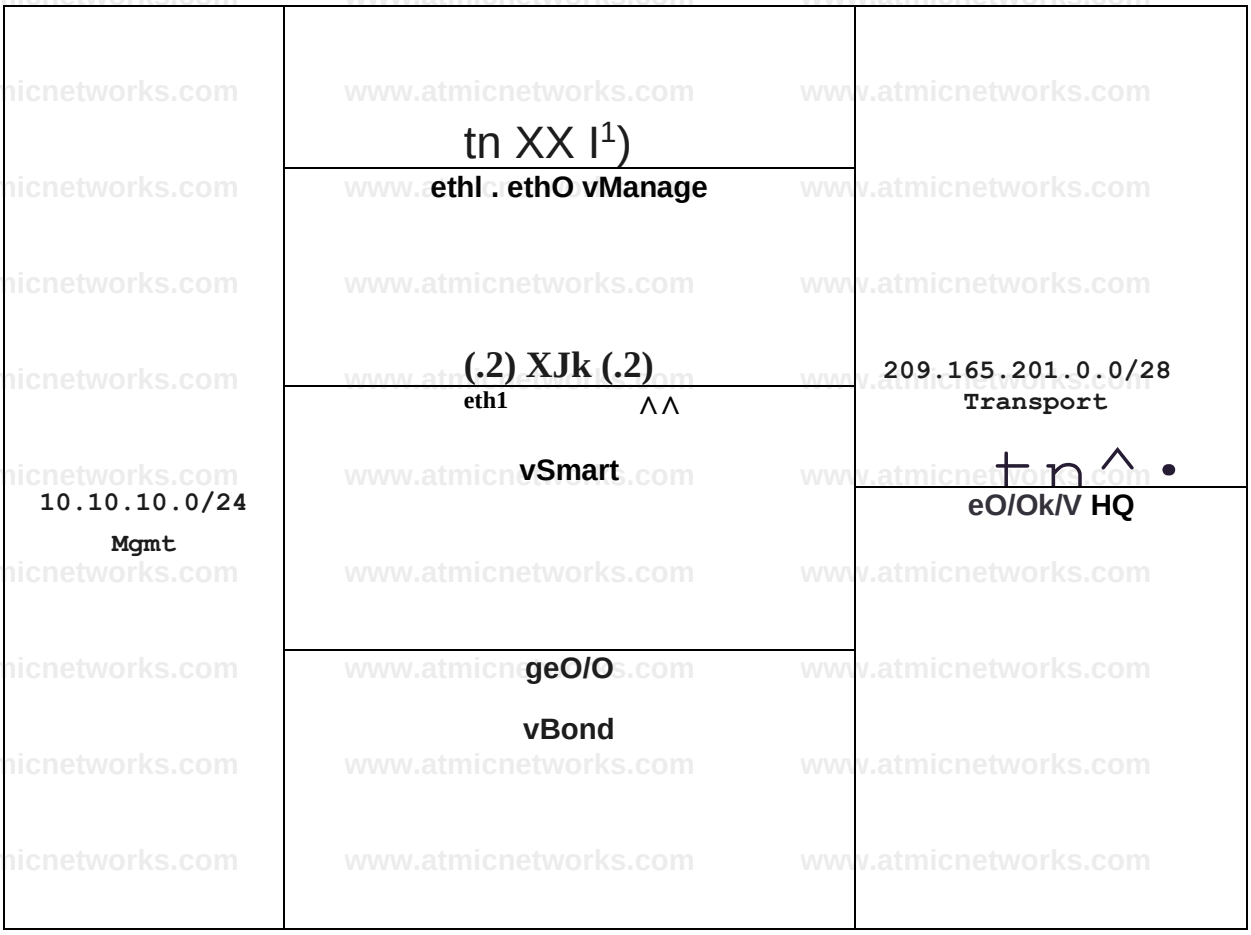
A. cloud-qos
B. service qos
C. cloud-mis qos
D. mis qos

Answer: A

Explanation:

Question: 156

Refer to the exhibit.



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

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

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 vipteta.com.
C. Remove the encapsulation ipsec command under the tunnel interface of vBond
D. Configure the encapsulation ipsec command under the tunnel interface on vManage

Answer: B

Explanation:

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

Question: 157

Refer to the exhibit.

```
vpn 1
service netsvd interlace ipsecl
```

```
fom-vsmari data-paliqy 1 ServieelsenionIPSec
  direction front-service
vpn4$t 1
  sequence 1
    match
      desttnafjon-ip 11 11/32
    action accept
     set
       service netsvcl
    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

Answer: B

Explanation:

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

Question: 158

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

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

Answer: A

Explanation:

Question: 159

What is the behaviour of vBond orchestrator?

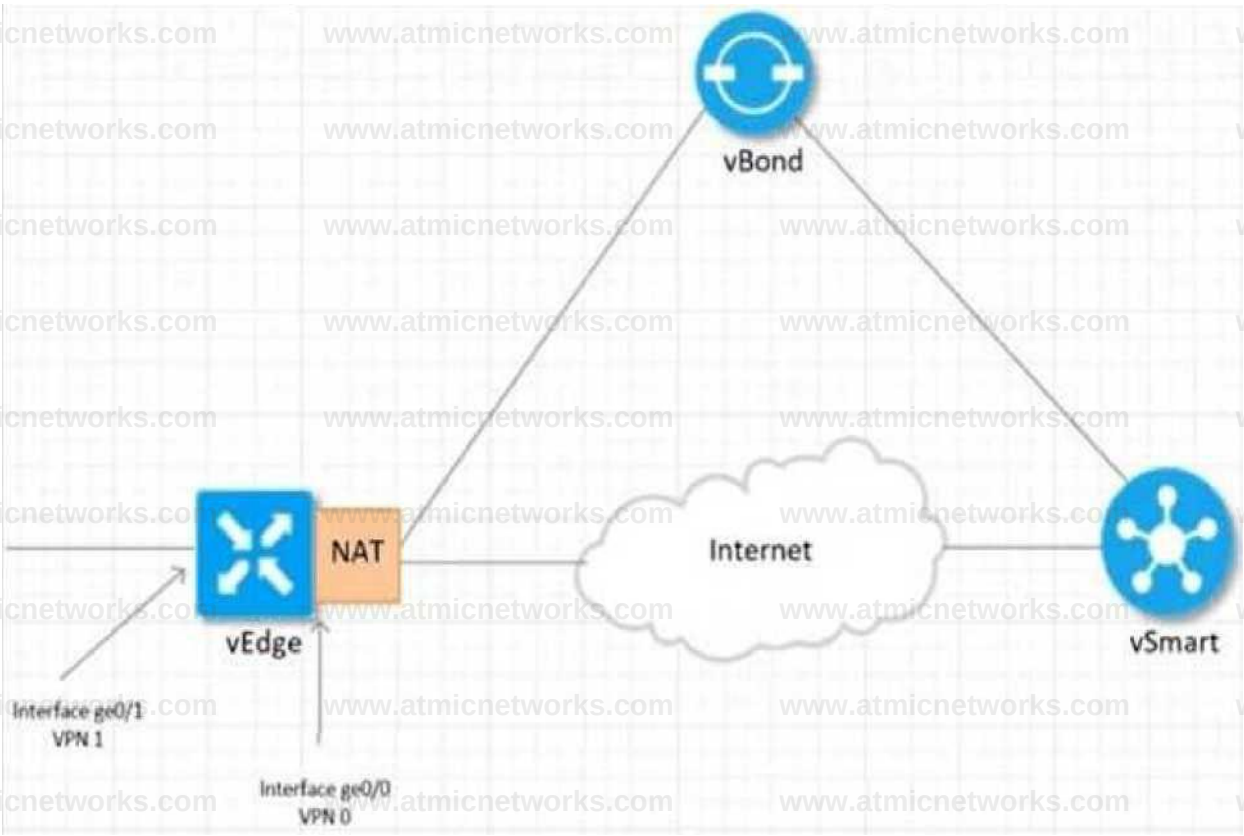
A. It maintains vSmart and WAN Edge routers secure connectivity state
B. it builds permanent connections with vSmart controllers
C. it updates vSmart of WAN Edge routers behind NAT devices using OMP.
D. It builds permanent connections with WAN Edge routers

Answer: A

Explanation:

Question: 160

Refer to the exhibit.



Refer to the exhibit Which configuration sets up direct Internet access for VPN 1?

vpn 1

interface grtH

nit

no shutdown

vpnO

ip route 0.0.0.0/0 vpn 1

vpn 1

interface ge(J/O nat

no shutdown

vpn 0

ip route 0-0 00 vpn 1

vpn 0

interface ge0!1

ip ML

no shutdown

vpn 1

tp route 0-0.0.0/0 vpn 0

□□XUXmiXIXIXIIXCXXXXXXXXXCCXZIXZXXXXIIIXIZI^MDDOHZXXXXXEOEXKISmniZEIIXXXXXXX

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

Answer: C

Explanation:

Question: 161

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 1000 0 00

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

interface interface-name vpn vpn-id
shaping-rate 1000 000

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

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

Answer: B

Explanation:

Question: 162

Refer to the exhibit.

FIX*	FIX*	MOA	1X11 DOMAIN raft	FAJVATt	FIX#	tUBLIC			LOCAL NILOTIC UFXAT
rm	MKWCOt	mnx	IF 10 ID	PXIVATI IF rwr	muc :r	iwr	LOCAL COW*	>TA7X	we* mo* cowrr
vbcnd	dUa		0 0	204.1<S.2M.2M 12346	204,165 200.230	12346	bi e-internet	tear down	CTOMMMIS NOW 14
vbcnd	dtla	*	0 0	200 165 201.137 12346	204.165 201.137	12346	bia^intamet	tear-down	CTOASNMtIS NOXAX 13

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

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

Answer: B

Explanation:

Question: 163

Which routing protocol is used to exchange control plane information between vSmart controllers and WAN Edge routers in the Cisco SD-WAN secure extensible network?

A. BGP
B. OSPF

C. BFD
D. OMP

Answer: D

Explanation:

Question: 164

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

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

Answer: A

Explanation:

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

Question: 165

What is an attribute of TLOC'

A. encryption
B. local preference
C. tag
D. service

Answer: C

Explanation:

Question: 166

An administrator must deploy the controllers using the On-Prem method while vManage can access the PnP portal from inside How are the two WAN Edge authorized allowed lists to be made available to vManage? (Choose two)

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

Answer: A,B

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.4/Configuration/Devices

Question: 167

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

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

Answer: A

Explanation:

Question: 168

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

polity
con (ml-policy Route^L taking sequence 1 match route
vpn-lltt VPN.73
prefix-Net Jtoylpv^PreflxUrt action accept
ex port−TO vpn di st VPN_6Q
sequence 11 match route vpndistWfOO pre fl a d i st _A ny I pvdPrefix List action accept
export-to vpn-Jist VPN_73 default-action accept

policy
control-policy RouWLeaking
sequence 1 match route VPO> p re fi x -1 i & t _Any I pvd Prefix Li BI export-to VPN^M
sequence 11 match route VPN_50 prefix diet .ArtylpydPrefiXLISt expOft-to VPNJ3
default-action accept

policy
control-policy Route-Leaking

```
sequence 1
 match route
 VPN-ALL
 pre ft x l i st _A ny I pv4 Pf efi x Li st
 action accept fl xpcrt-to VPN_ALL

policy
control-policy Route-Leaking
 sequence 1
 match route
 VPN-50 VPN-73
 prefix Ji st _AnyIpv4PrefixLiKt
 action accept
 export^ VFN_73VFN_50
```

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

Answer: A

Explanation:

Question: 169

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

A. Create groups of interest
B. Configure network topology.
C. Configure traffic rules.
D. Apply policies to sites and VPNs.

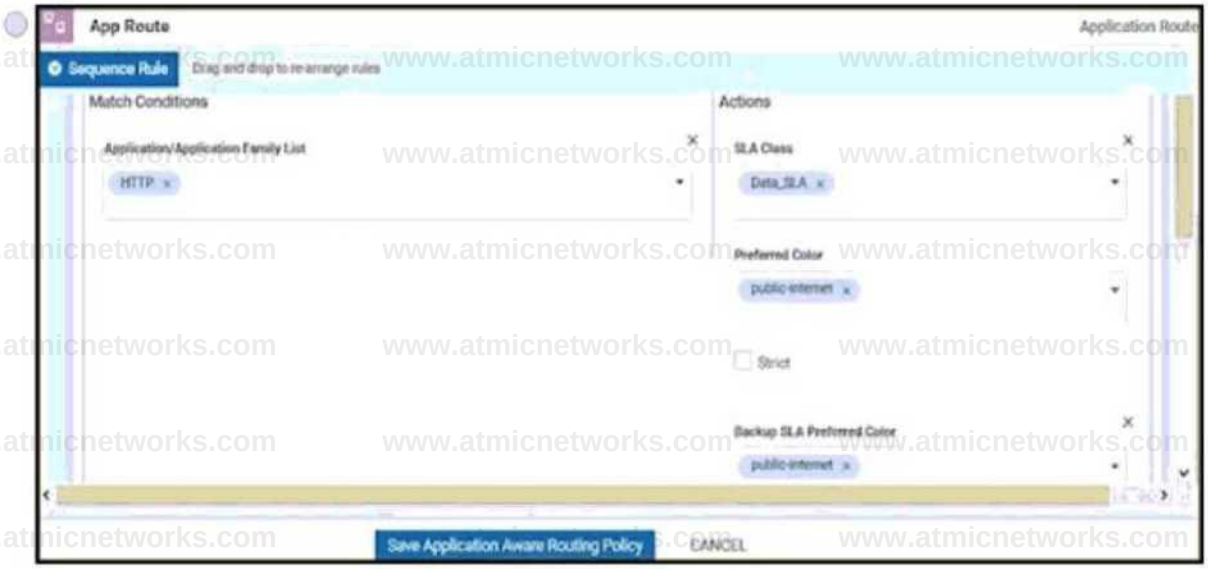
Answer: A

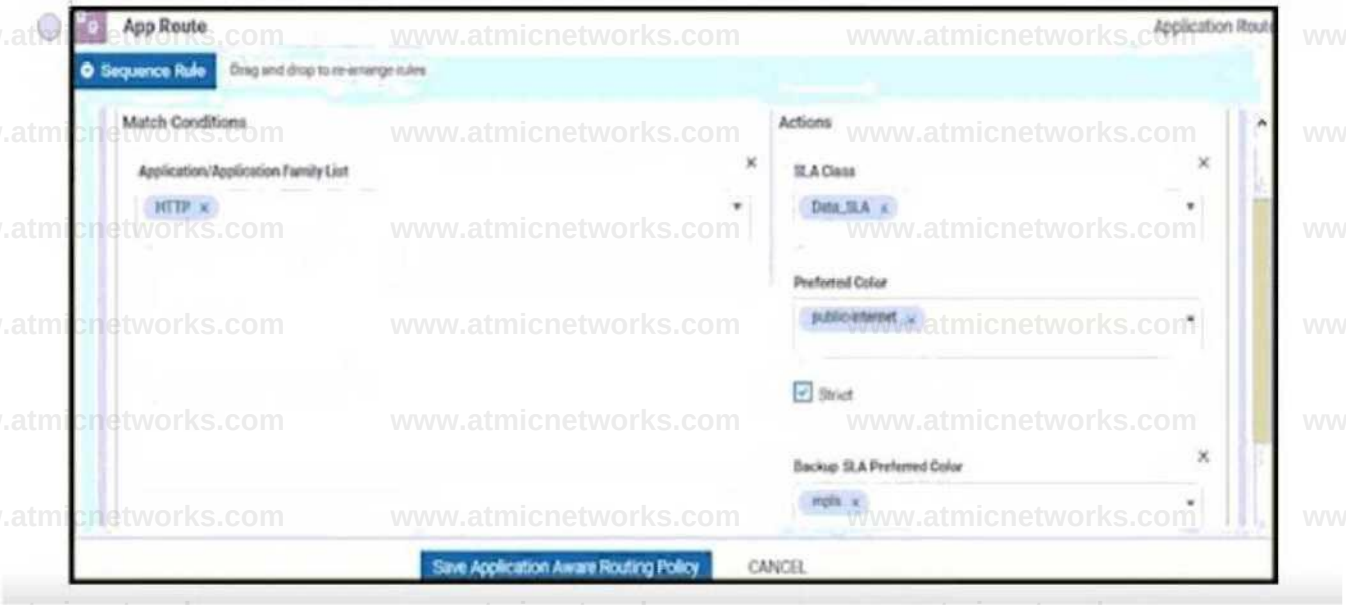
Explanation:

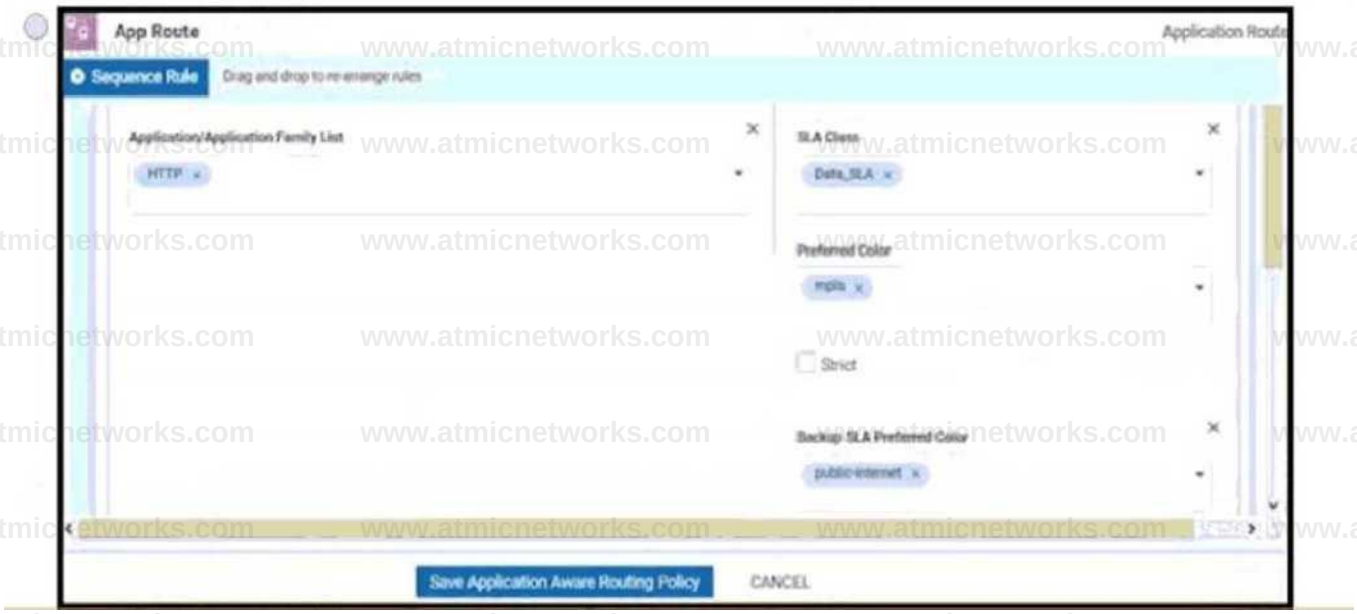
Question: 170

www.atmicnetworks.com

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







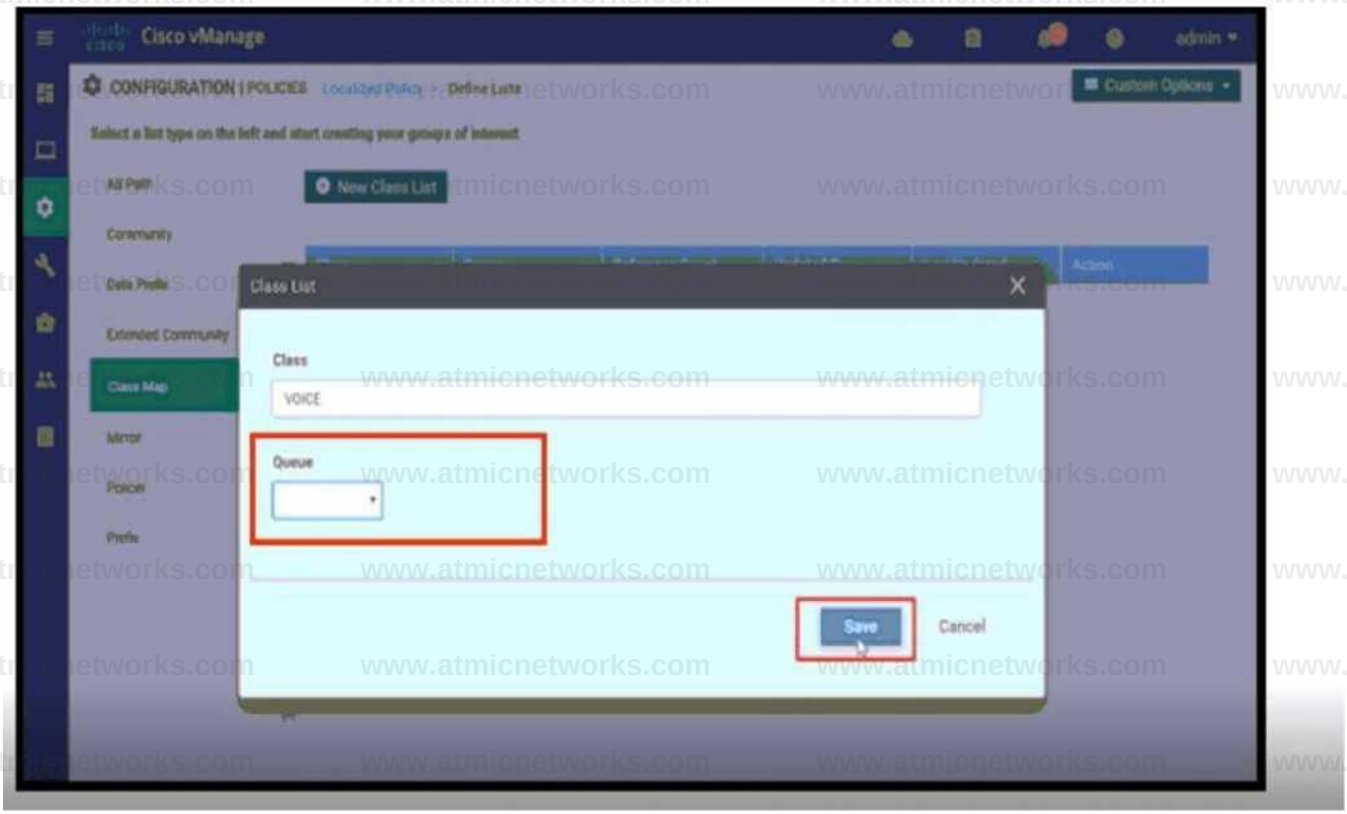
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Explanation:

Question: 171

Refer to the exhibit.



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

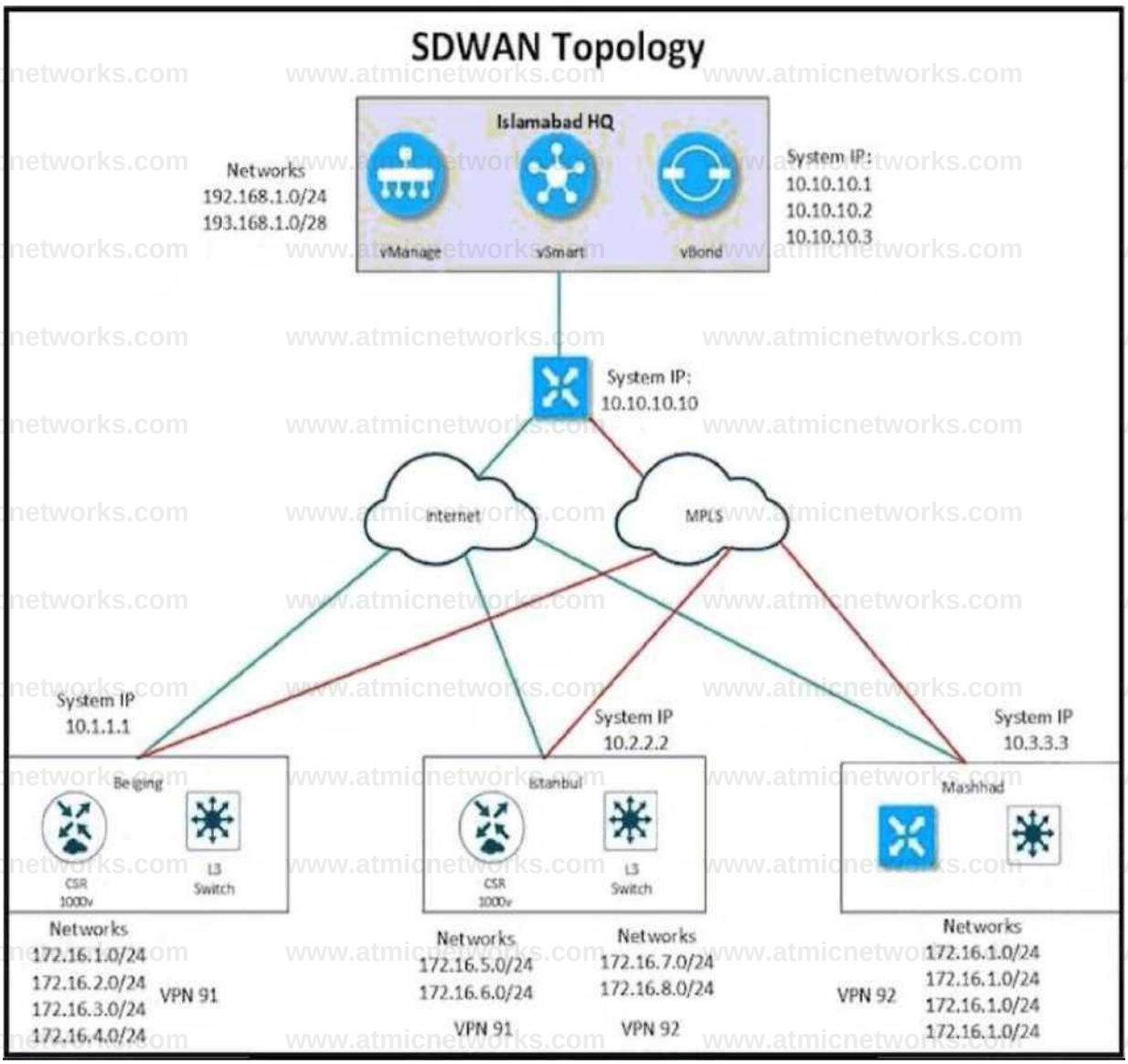
A. 0
B. 1
C. 2
D. 3

Answer: A

Explanation:

Question: 172

Refer to the exhibit.



Q Centralized Policy

CLI Policy

Lists

Topology

Traffic Policy

0 Localized Policy

CLI Policy

Lists

Forwarding Class/QoS

Access Control Lists

Route Policy

Refer to the exhibit The Cisco SD-WAN network is configured with a default full-mesh topology. Islamabad HQ and Islamabad WAN Edges must be used as the hub sites. Hub sites MPLS TLOC must be preferred when forwarding FTP traffic based on a configured SLA class list. Which policy configuration does the network

engineer use to call the SLA class and set the preferred color to MPLS?

A. Localized Policy, Route Policy
B. Centralized Policy, Traffic Policy
C. Localized Policy, Forwarding Class
D. Centralized Policy Topology

Answer: B

Explanation:

Question: 173

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

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

Answer: A

Explanation:

Question: 174

WAN Edge routers are configured manually to use UDP port offset to use nondefault offset values when IPsec tunnels are created. What is the offse range?

A. 1-19
B. 0-18
C. 0-19
D. 1-18

Answer: C

Explanation:

Question: 175

An engineer configures policing with a rate of 125 Bps and a burst rate of 8000 bits, as shown here:

```
policy policer pl
 rate
```

```
burst
 exceed drop i
access-list acH
sequence 1
match
source-ip 2.2.0.0/16
destination^ 10.110/24 100.110/24
destination-port 20 30
protocol 6 17 23

 action accept policer pl

 default-action drop

vpn 1                t
interface geO 4
description Policy ID: B413:A88D:76G7::4
ip address 10.20.24.15/24
no shutdown
access-list acll out
```

Which configuration completes this task?

A. Configure 125 for rate and 1000 for burst.
B. Configure 1000 for rate and 64000 for burst
C. Configure 125 for rate and 8000 for burst
D. Configure 1000 for rate and 1000 for burst

Answer: D

Explanation:

Question: 176

A customer has MPLS and Internet as the TLOC colors An engineer must configure conlroJIers with the Internet and not with MPLS Which configuration achieves this requirement on vManage?

A)

vpn 0 interface eLM
ip add res? 10.50.0.1'24 tunnel-interlace color mpis

B) **vpn 0 interface ethl**
ip address 10.50.0.1/24 tunnel-interface color public-Internet

C) vpn 0
I interface ethl
ip address 10.50.OT2*
tunnef-interface color Hi-Internet

D)

```
vpn 0
interface «h1
 Ip address 10 M 0.1 24 tunnel-interface color default
```

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

Answer: B

Explanation:

Question: 177

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

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

Answer: C

Explanation:

Question: 178

What is a benefit of using REST APIs?

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

Answer: B

Explanation:

Question: 179

How is TLOC defined?

A. It is represented by a unique identifier to specify a site in as SD-WAN architecture.
B. It specifies a Cisco SD-WAN overlay in a multitenant vSMART deployment.

C. It is a unique collection of GRE or iPsec encapsulation, link color, and system IP address.
D. It is represented by group of QoS policies applied to a WAN Edge router.

Answer: C

Explanation:

Question: 180

Which two criteria ate supported to filter traffic on a Cisco Umbrella Cloud-delivered firewall? (Choose two)

A. tunnels
B. site ID
C. URL
D. geolocation
E. protocol

Answer: A,E

Explanation:

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

Question: 181

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

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

Answer: A

Explanation:

Question: 182

What is the default value (in milliseconds) set tor the poll interval in the BFD basic configuration?

A. 300,000
B. 600,000

C. 900,000
D. 1,200,000

Answer: B

Explanation:

https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.2/Configuration/Templates/BF D

Question: 183

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

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

Answer: C,D

Explanation:

Question: 184

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

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

Answer: A

Explanation:

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Question: 185

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

A)

policy
data-policy TB vpn-list VPNJD sequence 1 match
s o u re e -d ala -prefill i ST SC **urw.Prtfi x destination*data-prefix*list**
De$t_Prefix action accept
set vpn 10 doc-list Hub-lLOGi default-action reject

tloc-list Hub_TLOCs
tloc 10 4.4 4 color mpls eneap IpWC preference 300
tloc 10.4.4.4 color pub lie-intern st «nup ipwc preference 600

B)

```
p&licy
da to-policy _TE
   vprl-iist VPNJC
    sequence 1 match
      source-<±ala-preftX*IiSt Saurce_PrefiX
      destination-data-prefix-list Dest_Prefix
      action accept
      nat use-vpn 0
      nat fallback
   default-action reject

Uoc-ltMHub.TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet eneap Ipsec preference 600
```

C)

```
policy
data-policy TE
vpn-list VPN.1D
sequence 1
      match
      source-data-prefix-list Source_Prefix
      desti natlan-data -prefi x -I i st De s t_Pre Hx
          action accept
      set
      vpn 10
      tloc-I i st Hub_TLOCs
default-action accept
r
tloc-list Hub_TLOCs
tloc 10 4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
```

D)

```
policy
data-policy IE
   vpn-list VPN JO
     sequence 1 match
```

source-data-prefix-list Source_Prefix destination-data-prefix-list Dest_Prefix action accept

set vpn 512 Hoc-list HubJLOCs default-action accept I tloc-list HubJLOCs Hoc 10.4.4.4 color mpls encap ipsec preference 600 tloc 10.4.4.4 color public-internet encap ipsec preference 300

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

Answer: C

Explanation:

Question: 186

A company must avoid downtime at the remote sites and data plane to continue forwarding traffic between WAN Edge devices if the branch router loses connectivity to its OMP peers Which configuration meets the requirement?

A)

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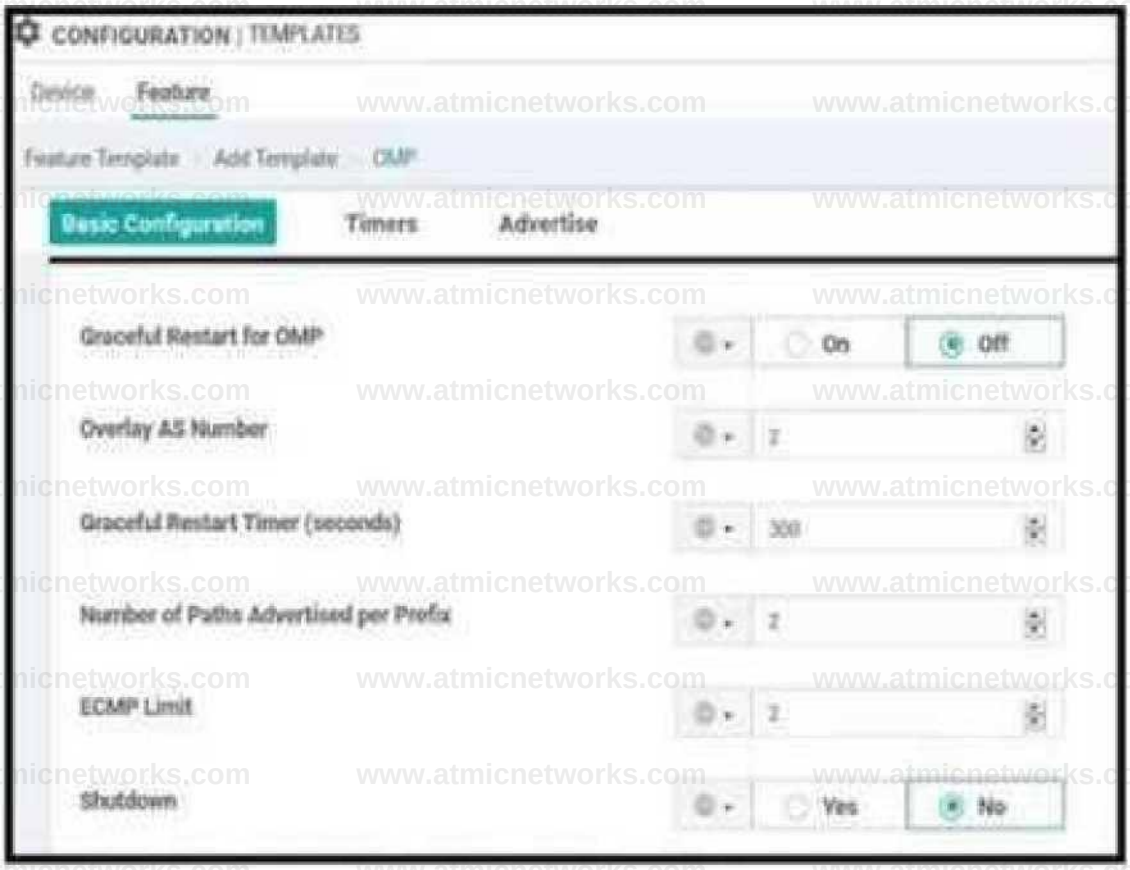
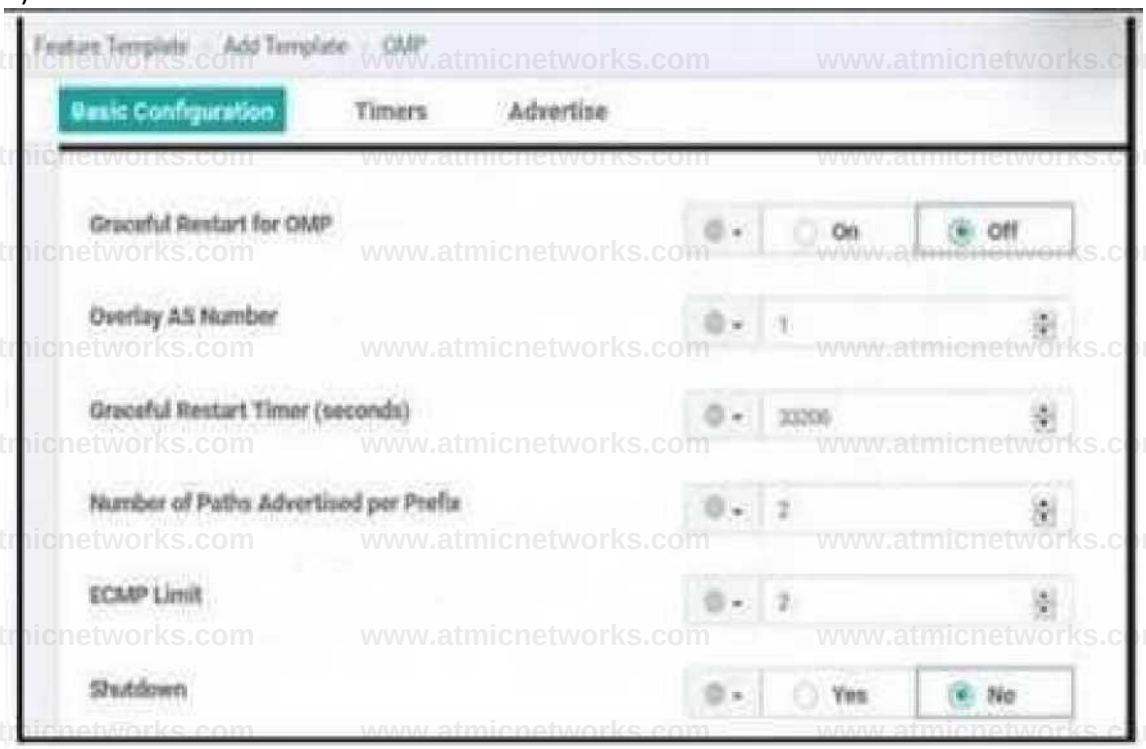
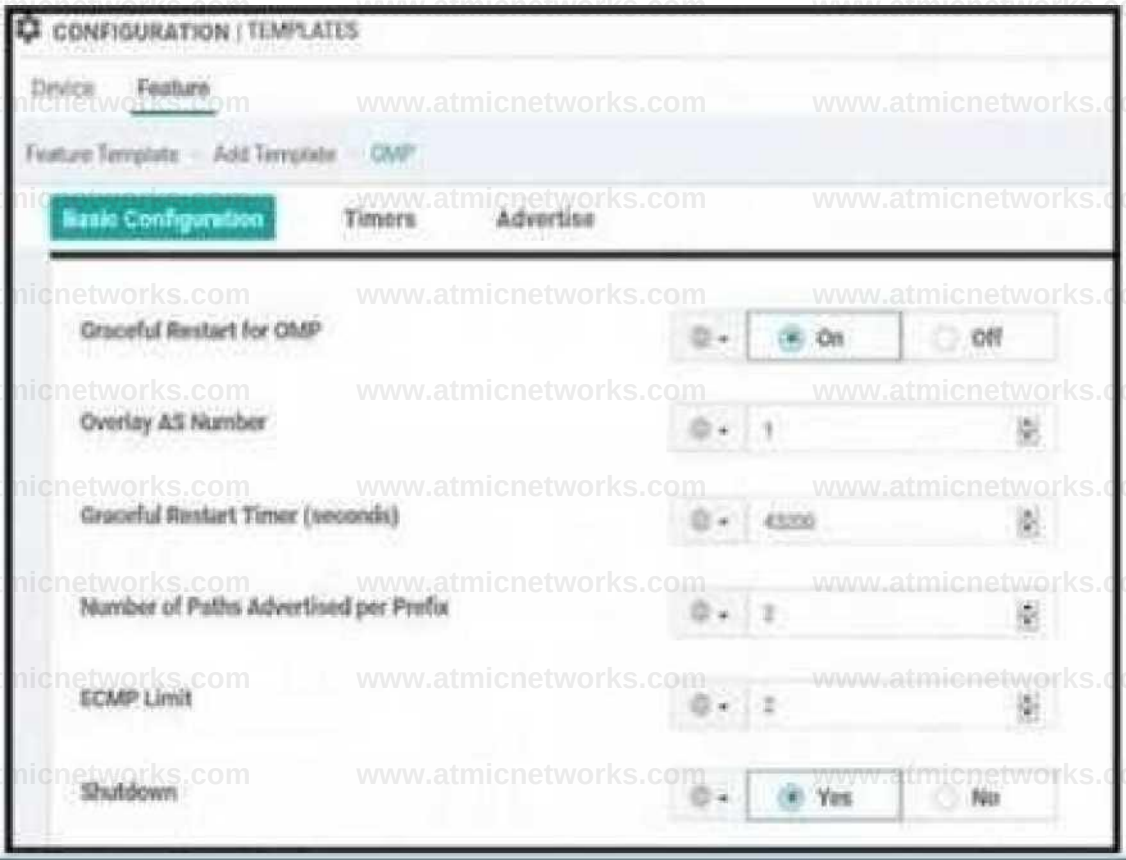


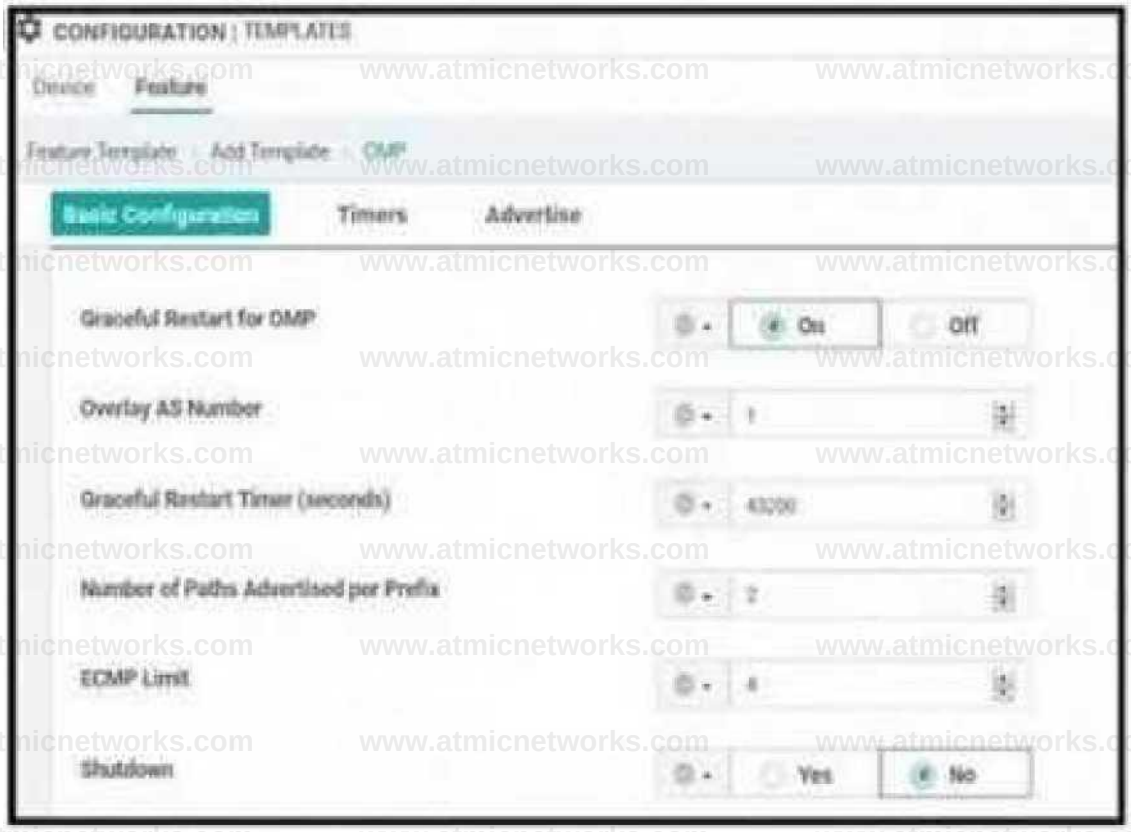
B)



C)



D)



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

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Answer: D

Explanation:

Question: 187

Which secure tunnel type should be used to connect one WAN Edge router to other WAN Edge routers?

A. TLS
B. DTLS
C. SSL VPN
D. IPsec

Answer: D

Explanation:

Question: 188

An engineer is configuring a data policy for IPv4 prefixes for a single WAN Edge device on a site with multiple WAN Edge devices How is this policy added using the policy configuration wizard?

A. In vManage NMS, select the configure ► policies screen, select the localized policy tab and click add policy
B. In vSmart controller, select the configure ► policies screen, select the localized policy tab. and click add policy
C. In vManage NMS. select the configure ► policies screen select the centralized policy tab and click add policy
D. In vBond orchestrator. select the configure ► policies screen, select the localized policy tab. and click add policy

Answer: A

Explanation:

Question: 189

Refer to the exhibit.

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

vpn 0
interface geD/O
ip address 10.50.0.101/30
tunfieHnterfac*
encapsulation grt
color public-internet
allow-ser^ct nip

ip route 0.0.0,WO 10 50.0.102

B)

vpn 0
interface geO/O
ip address 10.50.O.10V3O
tunnel-interface encapsulation ipsec color public-internet
restrict all a ^-service all allow-Hrvic* netccnf

ip route 0,0.0.0/010.50.0.102

C)

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

ip route 0.0.0.0/010.50.0.102

D)

vpn 1
Interface geO/O
ip address 10.50.0.105/30 tunnel-Interface encapsulation ipsec color public-internet restrict □ How-service all □How-service netconf

ip route 0.0.04/0 10.50.0.102

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

Answer: B

Explanation:

Question: 190

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

A)

TUNNEL
Tunnel Interface
On
Off
Color
Restrict
On
Off
Groups
Border
On
Off
Control Connection
On
Off
Maximum Control Connections
vBond As Stun Server
On
Off
Exclude Controller Group List
vManage Connection Preference
Port Hop
On
Off
Low Bandwidth Link
On
Off

B)

TUNNEL
Tunnel Interface
On
Off
Color
Restrict
On
Off
Groups
Border
On
Off
Control Connection
On
Off
Maximum Control Connections
vBond As Stun Server
On
Off
Exclude Controller Group List
vManage Connection Preference
Port Hop
On
Off
Low-Bandwidth Link
On
Off

C)

Miss

D)

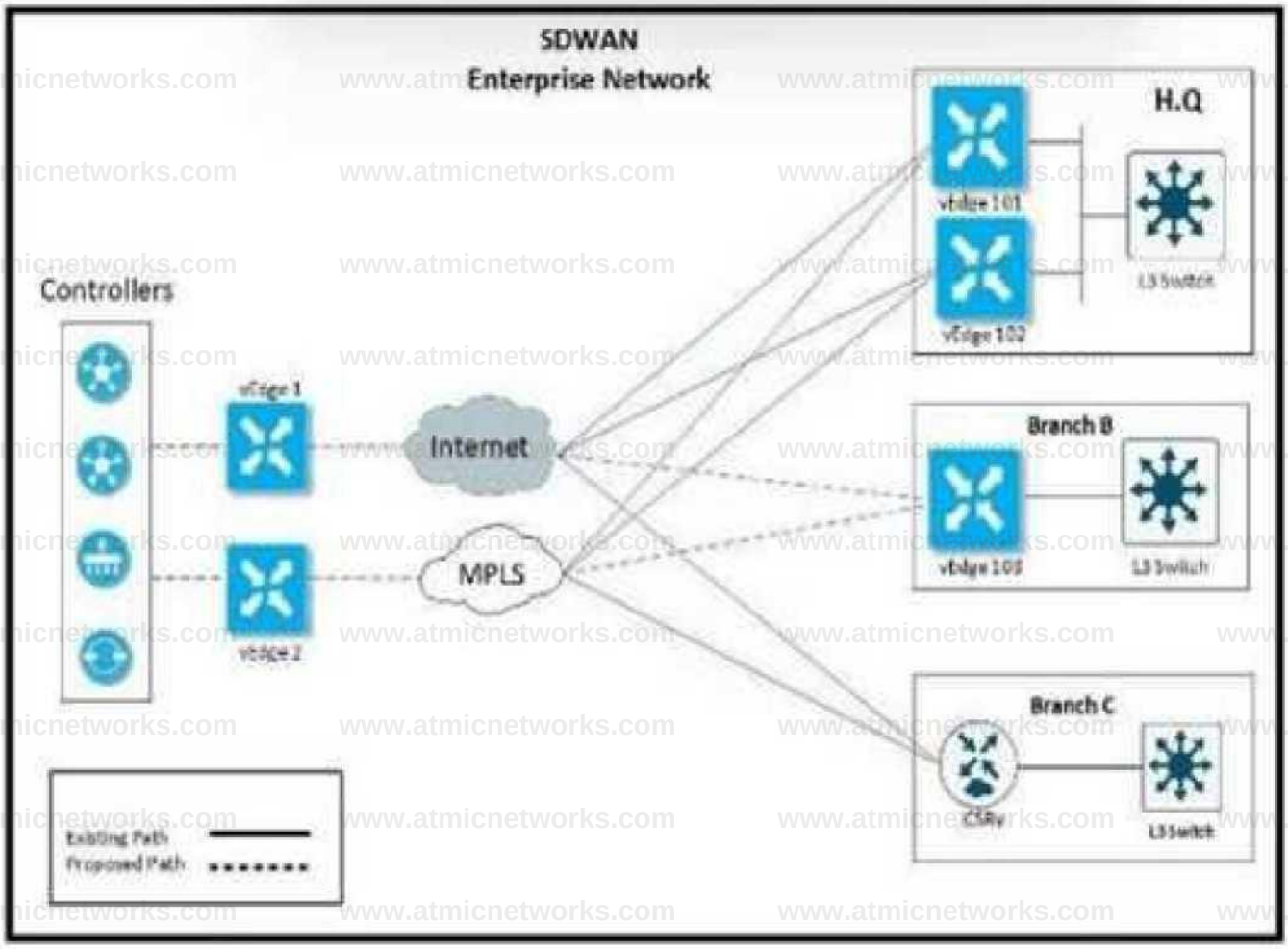
A. Option A B. Option B C. Option C D. Option D

Answer: A

Explanation:

Question: 191

Refer to the exhibit.



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

v Ip»h-1 y 5^rn:iyMc^
3flV CD n-|Qd*l v»dg»-cfoud
lwt-iiani ^Edgt-Cloud
iDCJt.as C
■tStWTFlp A 10.4 4 *
dWMin4d *M46 1
WQiniutijM-nMn* ABC (fork
imuo-x U$N«wy«rt vtoond
10 10.01 pe« 12146

amp
TO Shutdown jnafui-rttuit

wh M2 ini>rfa» »rhD
.p jddfHt IOLO.QLUN
I1Q tHutdbwfi

Which configuration meets the requirement?

A)

```
vpn 0
interface geO/D
  description ■" ' Internet Circuit ’ ’" ip
  address 2 09,16 5.20 0,225/30 tunnel-
  interface
    encapsulation ipsec color public-
    internet al low-service all

interface geOM
  description “’* MPLS ..... ip address
  10.10-0.101/30 tunnel-interface
    encapsulation ipsec color mpls allow-
    service all
```

B)

```
vpn 0
interface g«Q/D
  description ‘ ‘" Internet Circuit *“°
  ipaddress 209,16 5.200.22 5/30 tunnel-
  interface
    encapsulation ipsec
    color public-internet restrict allow-
    service all

interface ge0/1
  description '-’1 MPLS -"1 ipaddress
  10.10 0.101/30 tunnel-interface
  encapsulation ipsec color mpls
  restrict allow-service all
```

vpn 0
interface ye0'0
description..... Internet Circuit *"T1 ip address 209J6 5 200.22 5/30 tunnel-interlace
encapsulation ipsec color public-internet restrict allow-service ail

interface aeOH description "MPLS
ip address 10.10.0.101/30 tunnel-interface
encapsulation ipsec color mpl$ restrict jllow-service all

C)

vpn 0
interface ge0/0 description..... Internet Circuit ipaddress 2 09.16 5.20 0.225/30 tunnel-in terface
encapsulation ipsec color public-internet al low-service a lf

vpn 1
interface ge0/1
description "" MPLS ""* ip address 10.100.1 ni/30 tunnel-interface
encapsulation ipsec color mnls

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

Answer: A

Explanation:

Question: 192

What is the procedure to upgrade all Cisco SD-WAN devices to a recent version?

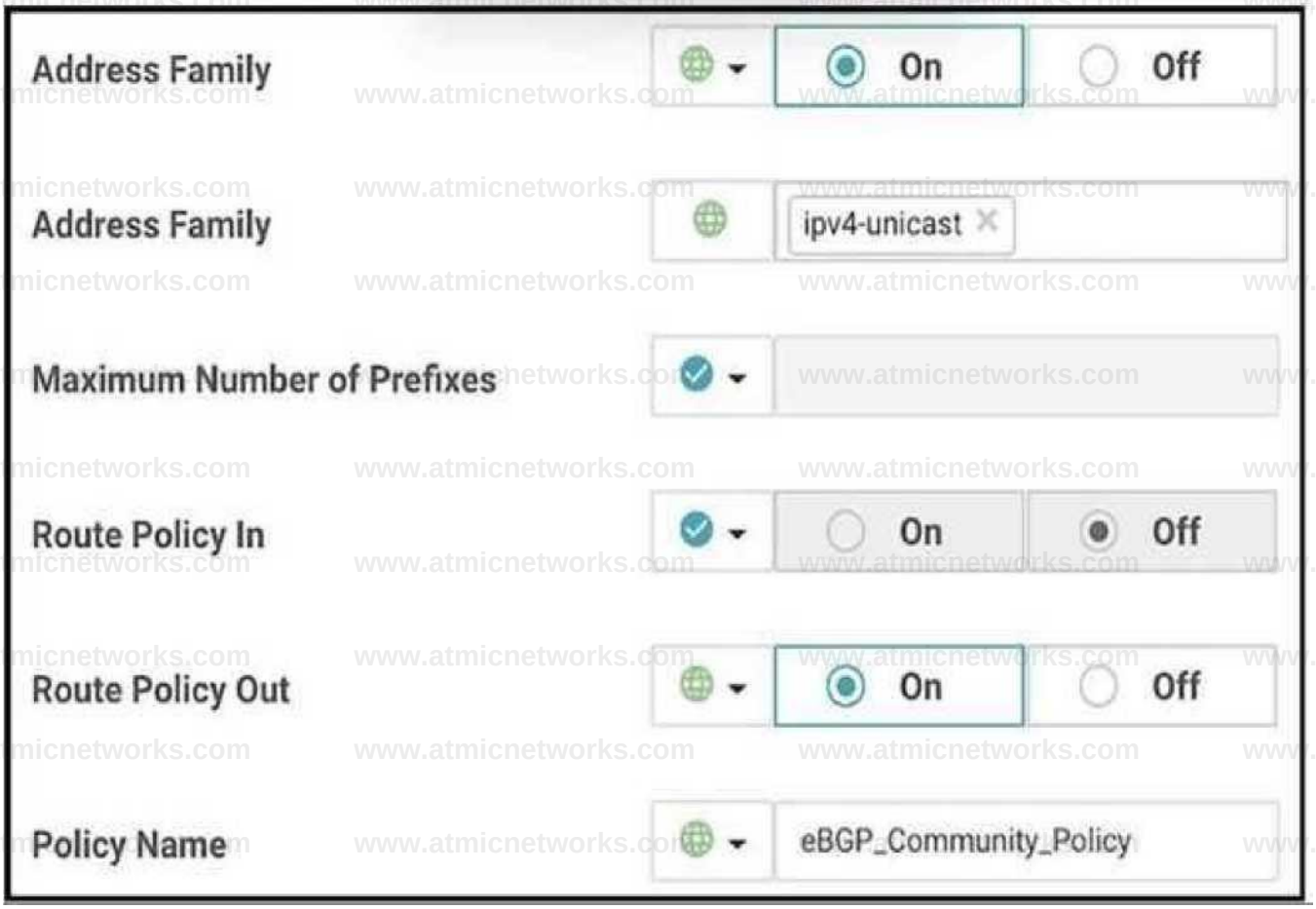
A. The upgrade is performed for a group of WAN Edge devices first to ensure data-plabe availability when other controllers are updated.
B. The upgrade is performed first on vManage, then on WAN Edge devices, then on vBond and finally on vSmart The reboot must start from WAN Edge devices.
C. Upgrade and reboot are performed first on vManage then on vBond then on 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.

Answer: C

Explanation:

Question: 193

Refer to the exhibit.



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

A)

```
policy
route-policy •BGP_Communlty_Po)lcy
    wqutuct 1 match address Community^P refix action acctpt let
      Gommunity 99^.6SW0 locabas
  default-action reject
Utts
  prefin-lKt Coinrnunity_PFefix
   ip-prefix 2 0.20.20.0724
   ip-prefix 21 21.21.^24
   ip-prefi( 22.22.22.0i'24
```

B)

```
policy
fouie-pohcy oBGP_Cdmrnufi impolicy sequence 1 match
    address COfnmur*iPty_P refill
```

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```
      action acctpt tel
       cacrirnijnity 939 :S5M0 no-ex port
    default-action accept
litis
   prefixJM Community Prefix
    ^prefix Z0.K.20 NW
    ^prefix 21 21 21 9 24
    ip-preflx 22 22,22,0'24
C)
policy
   xouie-pollcy tBGP_C«nmunity_Poficy
      sequence 1
      match
       address Commumry^Prefix
       action accept tel community 999:6 5030 focaku default-action reject
   lists
    prelix-lhf C<ifnrniunity_Prefix
     bp-prefix 2O.2C.2O.0-24
     ip-prefix 21.21.21.0/24
     tp-prefix 22.22.22.0/24
```

policy
routepoHcy *BGP_ConriniGniTy_Polic
wqueflCe 1
march
address CommunityJhvfli
action, accept
5*1
community 99fl:E5W0 no-expon. default-action accept lEfts
pretix-J^t Community Prefix
ip-pr«fix 2d .20.20.0/24
ip-prifix 21.21,21.0/24
iP'prefix 22.22.22.0/24

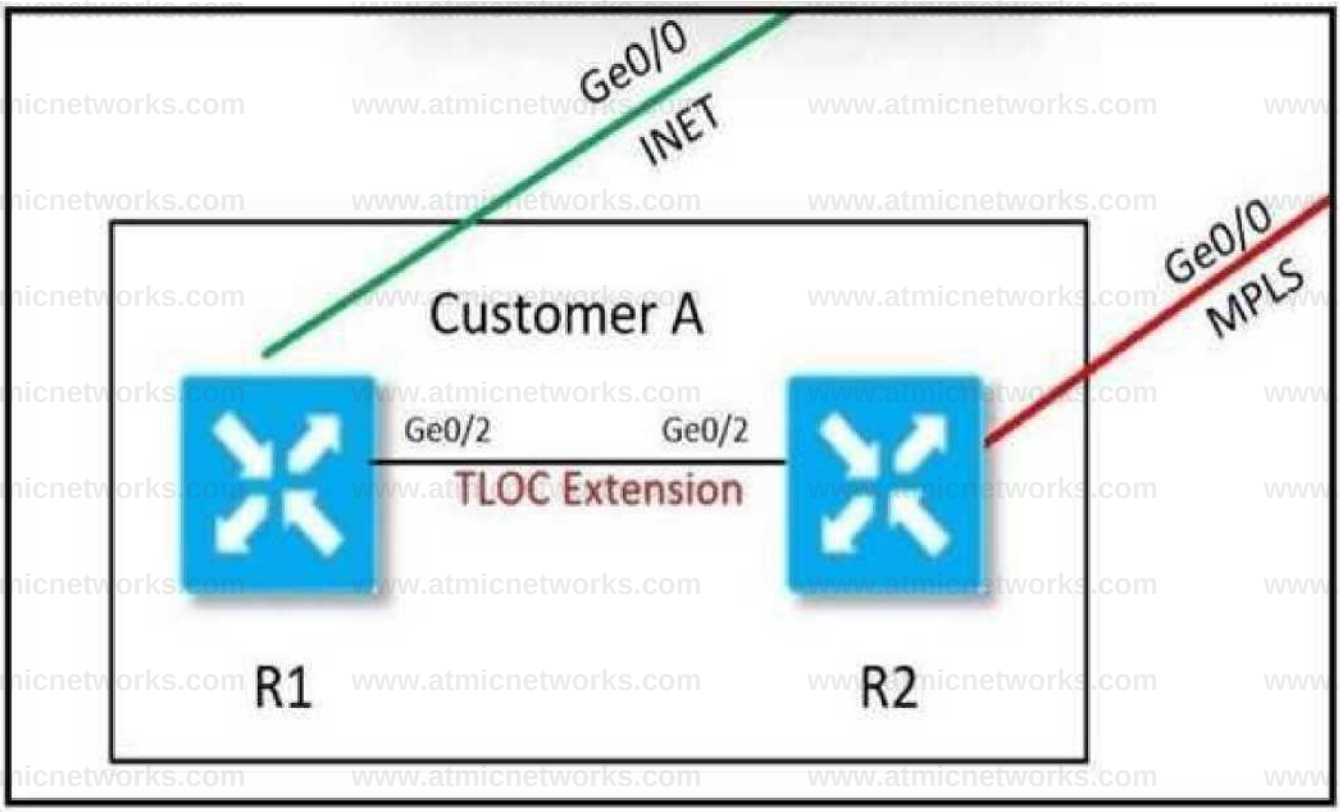
A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Explanation:

Question: 194

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)

Bl

```
interface geO/2
  ip address 34.34.34.1i'30
  tloc-extension 0aOH
  tunrel-interface
    color mpls
```

m

```
interface geO 2
  ip add ress 34.34.34.2/30
  doc-extension geG/D
  tunnel-Interface
    color public-1 memei
```

B)

```
interface geO'2
  ip address 34.34,34 J00
  thc-exlension gtftH

H2
interface geOlO
  ip address 34.34.34.2'30
  tunnel-Interface
    color mph
```

C)

```
vpn 0 router ospf
    redistribute omp route-polxy OSPF_Route_Poiicy area 0
    Interface geQ'2 exit lists
  prefix-list W2 Loopback
  ip-prefix 10.10.10.5'32
   route-policy OSPF_Route_Pollcy
   sequence 1 match
    address W2_Loopback

  action accept
    set
    metric 100
    metric-Type type!
```

D)

```
vpn 10
  name— Strvic* VPN 10 — router
   01 pf
     redistribute omp route-policy OSPF_Route_Policy
    area 0
     interface geO 2 exit
```

lists
prefix-list W2_Loopback
ip-prefix 10.10.10.5/32 i
route-policy OSPF_Route_Policy
sequence 1 match
address W2_Loopback

action acctot

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

Answer: D

Explanation:

Question: 195

What prohibits deleting a VNF image from the software repository?

A. if the image is stored by vManage
B. if the image is referenced by a service chain
C. if the image is uploaded by a WAN Edge device
D. if the image is included in a configured policy

Answer: D

Explanation:

Question: 196

Which two metrics must a cloud Edge router use to pick the optimal path for a SaaS application reachable via a gateway site? (Choose two.)

A. HTTP loss and latency metrics to the SaaS application
B. ICMP loss and latency metrics to the SaaS application
C. BFD loss and latency metrics to the gateway site
D. BFD loss and latency metrics to the SaaS application
E. HTTP loss and latency metrics to the gateway site

Answer: A,C

Explanation:

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

Question: 197

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 geO/1
Ip address 17X16X1)24
vpn 512
ip route 0.0.0.0/0 vpn 0

B)

vpn 1 ip route 0.0.0.010 vpn 1 Interface geO'O
ip address 172.10.1/24
Mt

C)

vpn 0 interface geO/O
Ipaddress 172.16.0.1/24 net
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 geO/1 ipaddress 17M6.O.1£4 net

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

Answer: C

Explanation:

Question: 198

Refer to the exhibit.

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vManaae

```
system
| system^ 10.11.11.1
  host-name vManaoe
  site-id 1
  dock hmezone Europe tendon
  vbond 11 1 1 3
  organization-name Cisco com
VDOO
  Interlace etni
   Ip address 11.1.11/24
   No shut
   Tunnel-mterface
   AJiow-servicc all
Ip route 00 0.0/0 11 1 1 254
```

v Smart

```
system
system-ip 1011111
host-name vSmarl
Site-id 1
dock timezone Europe/Rome
vbond 11 1 1 3
organization-name Cisco com
VoriO
Interface ethl
  Ip address 11.1.1 2/24
  No shut
  Tunnel-interface
  Al low-service all
JP joute M 9^          1 254
```

vBand

```
system
system-ip 10.11.11 3
host-name vManane
site-id 1
dock timezone Europelondon
vbond 11111 local
organization-name Cisco com
VDOO
Interface geO'O
 Ipaddress 11.1.13/28
 No shut
 Tunnel-interface
   Encapsulation ipsec
 Aiiow-service all
 Ip route 0 0 0 0/0 11 1 1 254
```

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

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

Answer: B

Explanation:

Question: 199

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

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

Answer: C

Explanation:

Question: 200

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

Answer: C

Explanation:

Question: 201

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

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

Answer: D

Explanation:

Question: 202

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

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

D. RHEL 6.7

Answer: D

Explanation:

Question: 203

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

A)

vpn 0
drl$ 208,67,222,222 primary
altow-servlce dn$
allow-service sshd al low-service netconf

B)

vpn 0
a Now-service dns allow-servlce sshd a Now-service netconf

C)

vpn 512
dos 208.67.22 2.222 primary
aitow-servlce tins allow-servlce sshd aUow*5«rvlce netconf

D)

vpn 512
at low-service dns
a How-service sshd
a How-service netconf

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

Answer: A

Explanation:

Question: 204

Which issue triggers the Cisco Umbrella resolver to toward DNS requests to the intelligent proxy?
Which issue triggers the Cisco Umbrella resolver to toward DNS requests to the intelligent proxy?

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

Answer: D

Explanation:

Question: 205

How many vCPUs and how much RAM are recommended to run the vSmart controller on the KVM server for 251 to 1000 devices in software version 20.4.x?

A. 4vCPUs. 16 GB
B. 4 vCPUs. 8 GB
C. 8vCPUs. 16 GB
D. 2vCPUs.4GB

Answer: B

Explanation:

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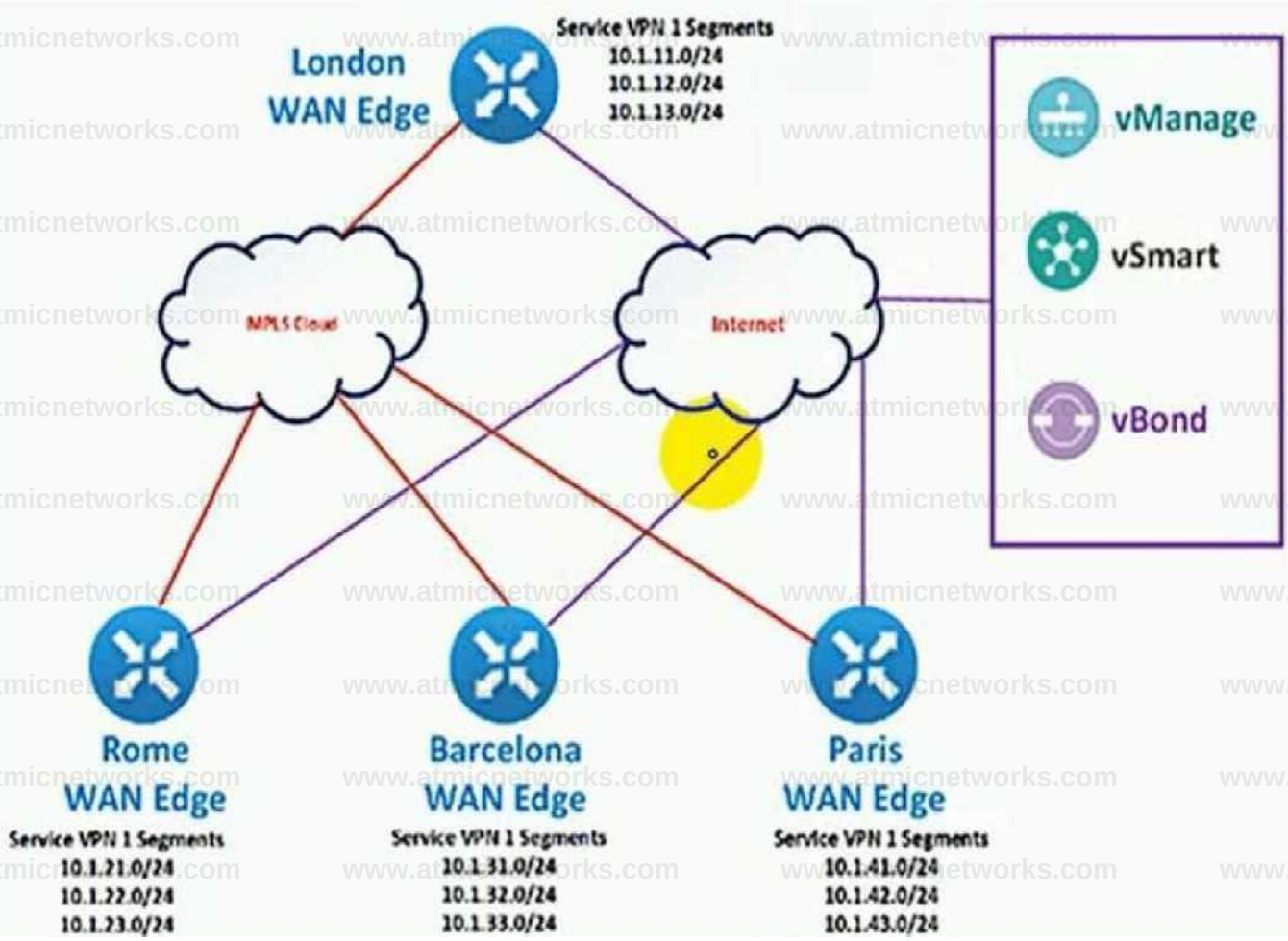
Question: 206

Refer to the exhibit.



The Cisco SD-WAN network is configured with a default full-mesh topology. An engineer wants Paris WAN Edge to use the Internet HOC as the preferred TLOC for MSN Messenger and AOL Messenger traffic.

Which policy achieves this goal?

A)

B)

C)

D)

Cw*iAi»4 p»*<y tacMrM^x

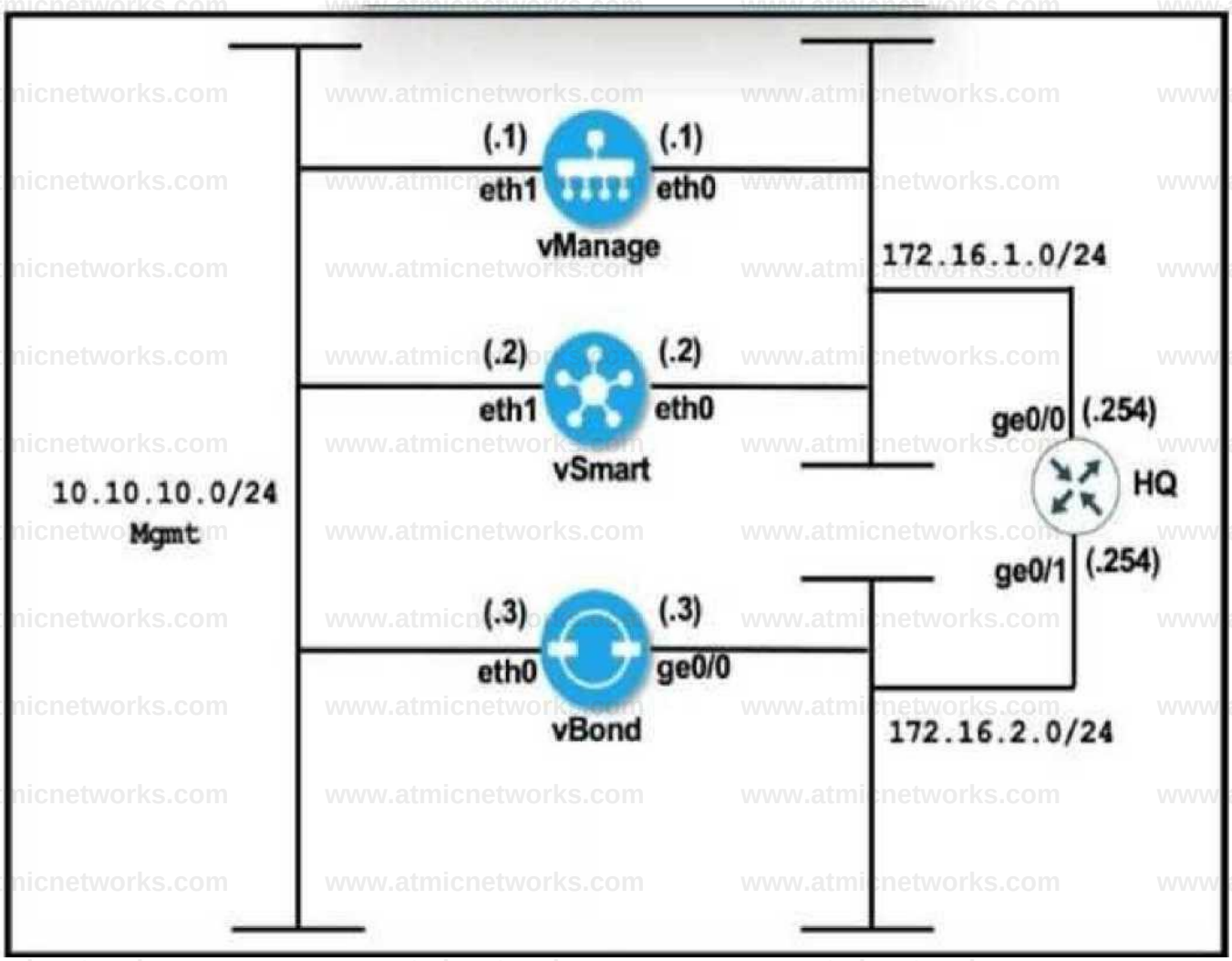
A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

Explanation:

Question: 207

Refer to the exhibit.




```
vManage

system
 system-ip 10.10.10.101
 host-name vManage
 site-id 1
 clock timezone Europe/London
 vbond 172.16.2.1
 organization-name Cisco.com

vpn 0 interface ethl
  ip address 172.16.1.1/24 no shut
  tunnel-interface
  allow-service all
 ip route 0.0.0.0/0 172.16.1.254

commit

vBond

system
 system-ip 10.10.10.103 host-name
 vBond site-id 1
 clock timezone Europe/Rome vbond
 172.16.2.1 local organization-name
 Cisco.com

vpn 0
 interface geO/O ip address
  172.16.2.1/24 no shut tunnel-
  interface encapsulation ipsec
  allow-service all
 ip route 0.0.0.0/0 172.16.1.254 i
commit
```

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

A. Configure the timezone on vBond to Europe/London.
B. Configure the encapsulation ipsec command under the tunnel interface on vManage.
C. Configure a default route on vBond pointing to 172.16.2.254.
D. Remove the encapsulation ipsec command under the tunnel interface of vBond.

Answer: C

Explanation:

Question: 208

An engineer must deploy a QoS policy with these requirements:

- policy name: App-police
- police rate: 1000000
- burst: 1000000
- exceed: drop

Which configuration meets the requirements?

vpvfa WHIG sequence 1 match
A. aooini youtube acton acctpt wt
police? App-police

policy
data-policy policy-name vpfbUst ft
F sequence 1 action accept set
police? App-police

vpn 10 interface fleO Oi'O
C. set
police? App-polict In default action accept

policy
- action accept ' Mt
police? App-police

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

Answer: B

Explanation:

Question: 209

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

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

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Answer: A

Explanation:

Question: 210

Refer to the exhibit.

```
policy
 lists
  !
  tloc-list dc-preference-east
   tloc 100.100.100.100 color mpls
encap ipsec preference 200
   tloc 101.101.101.101 color mpls
encap ipsec preference 400
  !
  site-list sites-region-west
   site-id 1-20
  !
  site-list sites-region-east
   site-id 21-40
  !
  site-list dc-sites
   site-id 100-101

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

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

A.

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

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

B.

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

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

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C.

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

D.

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

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

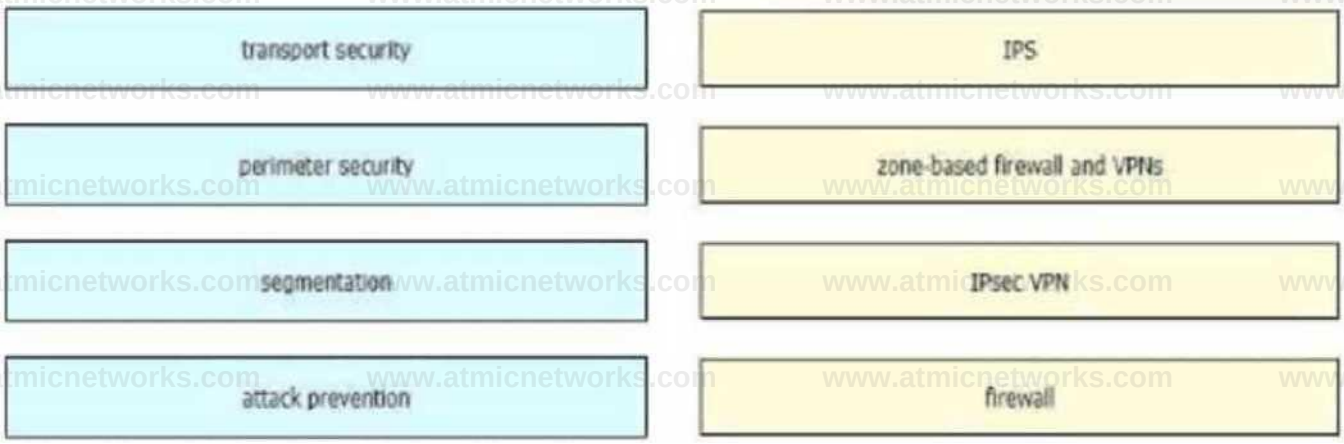
Answer: A

Explanation:

Question: 211

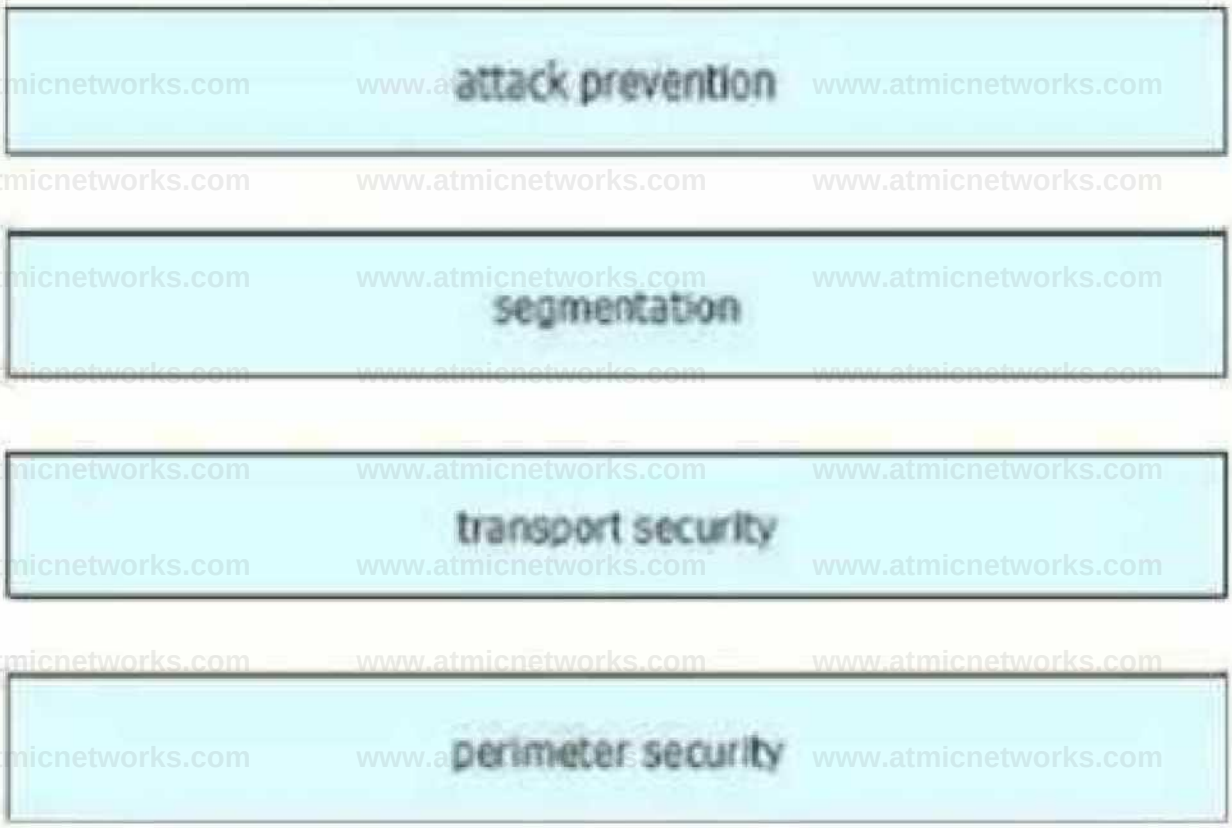
DRAG DROP

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



Answer:

Explanation:



Question: 212

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

vpn 0 interface ethl ip >d«HH mi.M^a A UfinMvlMtaa

alio^service uhd al low-service netconf M thtikfown

vpn Si J interface e*i $ ip address 199 1 11/28 " tunnel-interface allow-service »hd al low-service netconf

vpn 0 interface «ni ,- ip address Ifii.T.L 1/20 ' tutwel-iHtorftn ahoW'Service Hhd jl-aw-service nip

vpn M$ Interfwe *tM ip AMfMl 199 1 1 1/28 D tunnel-interface al low-service netconf no AlEpw-terVlH nio no al l ow-service stun

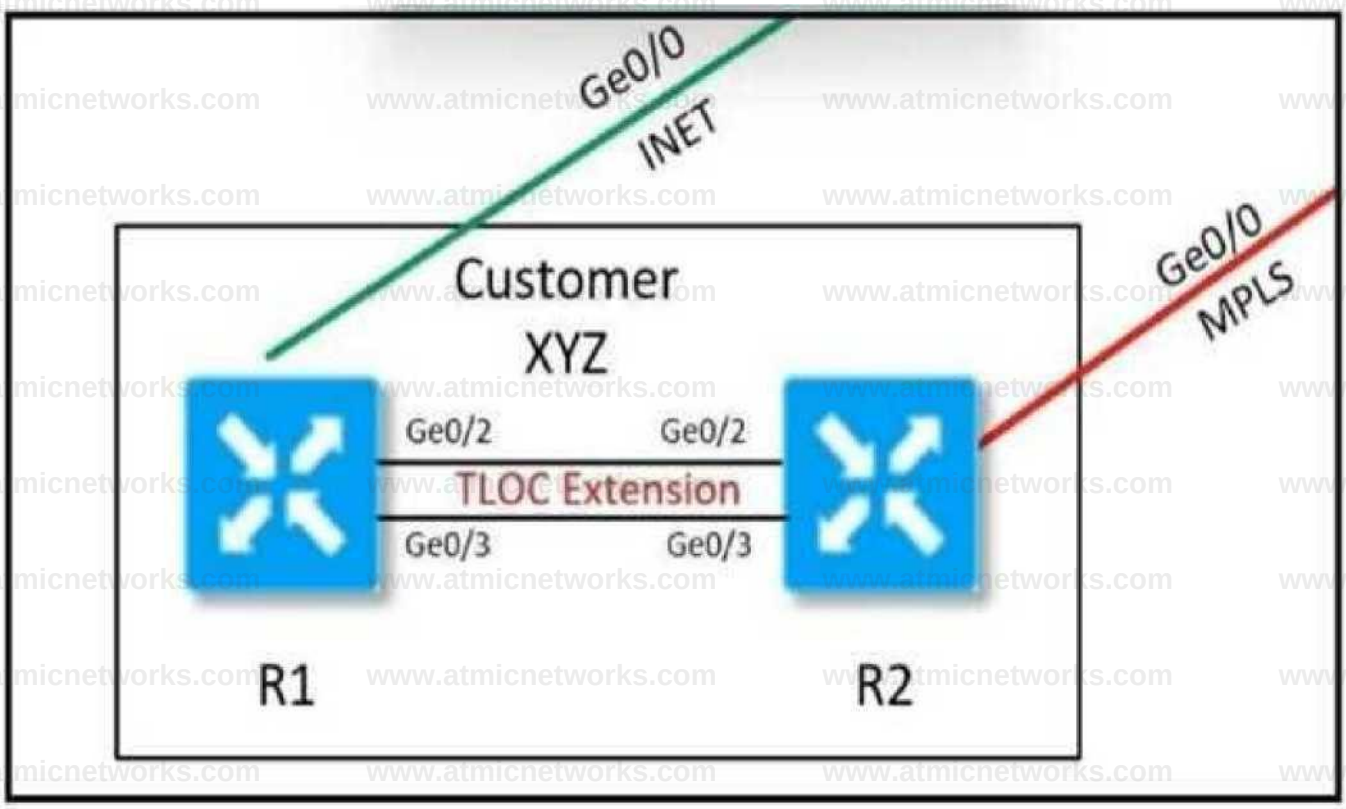
A. Option A B. Option B C. Option C D. Option D

Answer: A

Explanation:

Question: 213

Refer to the exhibit.



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

RI
fawta* QtOfS
ip addrtis 43 43 43 2,30
tiOMMftlIM H+0 0

IntvfaM oeO'3
Ip iddrm 3 4.34 34 V30
tuRnaMntorfact
cdw mp4?

interface grt'2
Ip address « 43 43 1/30
tunr*HnlM^3w
color p4jhiic-1.fi temst

inttrfx* 0*0^3
ip addrtii 34.34 34.130
tiec-ultmioneaWO
RI
interface geO'l

Ip address 43.43.434/30 doc-ejcwmlw o#0'0

Interface 0*0'3 ip address MM M UM
_ ti M-em n si on pt 0 ’ 0

R2
Interface jaO 2
ip address 43.43.43.13* tunnel-Interface
tolgr public-internet

interface ge0'3 ip address 34.MM 1/30

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```
RI
Interface geO 2
 ^ Mkfrwi4Xtt.4J.flM tloc-enteniiwi QPO D

Interface p*00
   ip address 34.34 34.AM
C. ti pc^uns: on geOO

R2
interface ge02
 Ip addreu 43.43.43 U»

 Interface 5*0 3
 Ip addrm 34 34 34 1'30

RI
Interface g*02
   P addreu 43.43.43100 tl PC* tension g^OO

 interface geOO ip rfdrtu 34.34.341^30 Titfw*Hnwftot color mpii
D
R2
interface g*0'2
 ip addriii 4 3.4 3 4 3.100
 TuntteHnwfac* color public-internet

interface 8*0 3 Ip addrm 34 34 34 ^M HoMxtenikin a*0 2
```

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

Answer: A

Explanation:

Question: 214

Which protocol is configured on tunnels by default to detect loss, latency, jitter, and path failures in Cisco SD-WAN?

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

Answer: B

Explanation:

Question: 215

An administrator wants to create a policy to add a traffic policer called "politer-ccnp" to police data traffic on the WAN Edge. Which configuration accomplishes this task in vSmart?

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

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

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

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

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

Answer: B

Explanation:

Question: 216

Which table is used by the vSmart controller to maintain service routes of the WAN Edge routers in the hub and local branches?

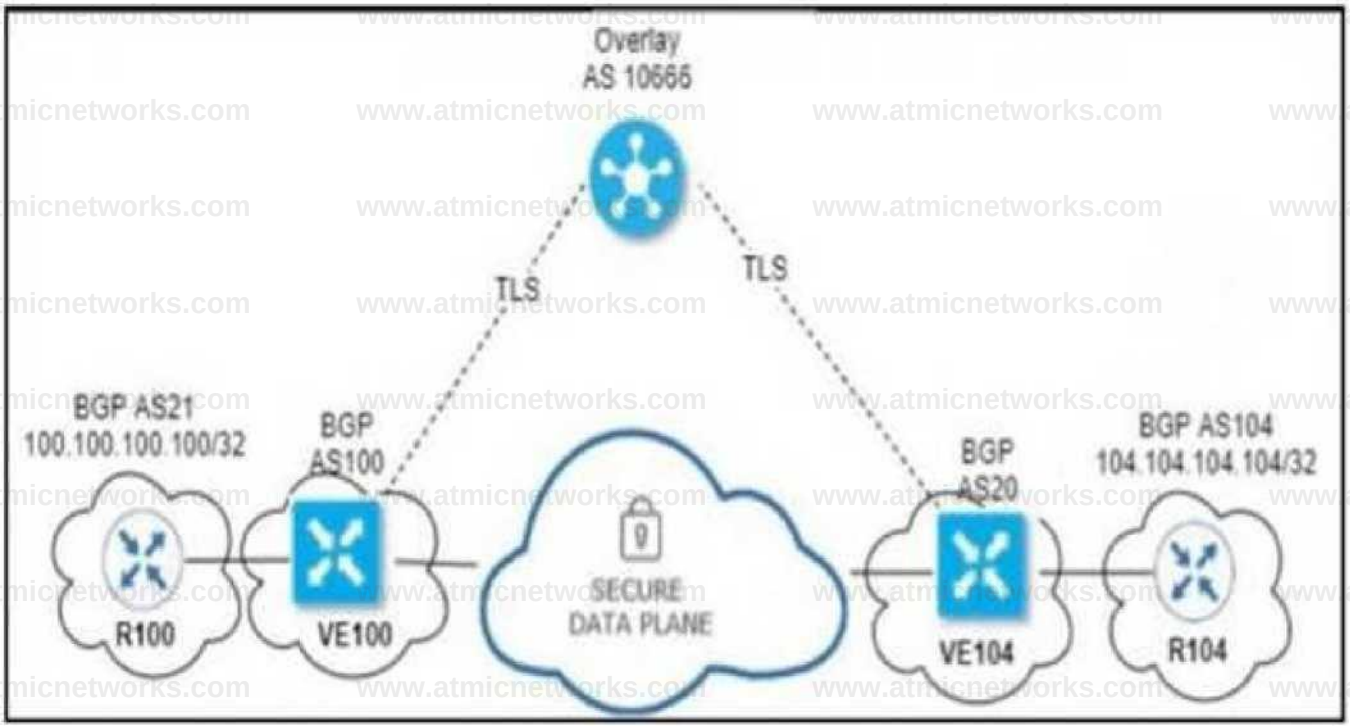
A. RIB
B. FIB
C. OMP
D. TLOC

Answer: C

Explanation:

Question: 217

Refer to the exhibit.



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

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

Answer: A

Explanation:

Question: 218

Which policy tracks path characteristics such as loss, latency, and jitter in vManage?

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

Answer: C

Explanation:

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

Question: 219

Refer to the exhibit.

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

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

A.

CONFIGURATION | CERTIFICATES
WAN Edge List
Controllers
Send to Controllers
Click Send to Controllers to sync the WAN Edge list on all controllers
Total Rows: 20
Device Model
Hostname
IP Address
vEdge Cloud
vEdge1
10.10.10.1
vEdge2
10.10.10.2
vEdge3
10.10.10.3
vEdge4
10.10.10.4
vEdge5
10.10.10.5

B.

CONFIGURATION | DEVICES
WAN Edge List
Controllers
Change Mode
Upload WAN Edge List
Export Bootstrap Configuration
Sync Smart Account
CLI mode
vManage mode
Total Rows: 20

C.

D.

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

Answer: A

Explanation:

Question: 220

Which two sets of identifiers does OMP carry when it advertises TLOC routes between WAN Edge

routers? (Choose two.)

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

Answer: A,C

Explanation:

Question: 221

How many subnets are necessary in Azure VNet for a WAN Edge device to function in the cloud deployment?

A. CSR is the WAN Edge device that is supported in the Microsoft cloud. The Microsoft underlay cloud fabric performs the management function.
B. There must be three subnets in VNet: management, public, and services.
C. One public subnet is required in VNet. The Microsoft underlay cloud fabric performs all of the routing functions for WAN Edge.
D. Public and services subnets are required in VNet. The Microsoft underlay cloud fabric performs the management function.

Answer: D

Explanation:

Question: 222

Refer to the exhibit.

An enterprise has hub and spoke topology where it has several VPNs. An engineer must allow users in VPN91 to reach users in VPN92 and VPN10 to reach VPN91 and VPN92. Which configuration meets these requirements?

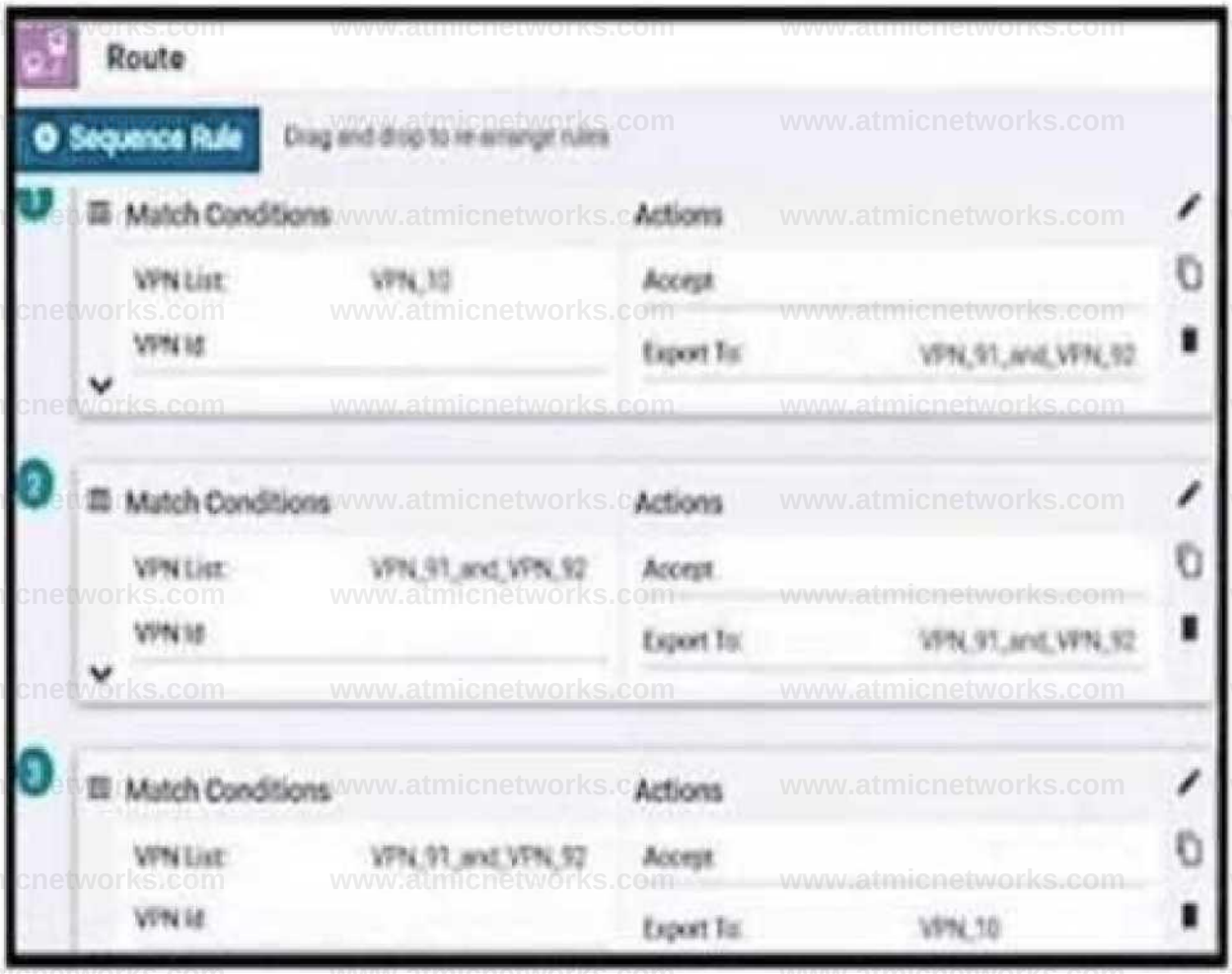
A.

Route
Sequence Rule
Drag and drop to re-arrange rules
1
Match Conditions
Actions
VPN List
VPN_91
Accept
VPN Id
Export To
VPN_92
2
Match Condition
Actions
VPN List
VPN_92
Accept
VPN Id
Export To
VPN_91
3
Match Condition
Actions
VPN List
VPN_91_and_VPN_92
Accept
VPN Id
Export To
VPN_10

B.

Route
Sequence Rule
Drag and drop to re-arrange rules
1
Match Conditions
Actions
VPN List
VPN_10
Accept
VPN Id
Export To:
VPN_91_and_VPN_92
2
Match Conditions
Actions
VPN List
All_9X_VPNs
Accept
VPN Id
Export To:
All_9X_VPNs
3
Match Conditions
Actions
VPN List
VPN_91_and_VPN_92
Accept
VPN Id
Export To:
VPN_10

C.



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D.

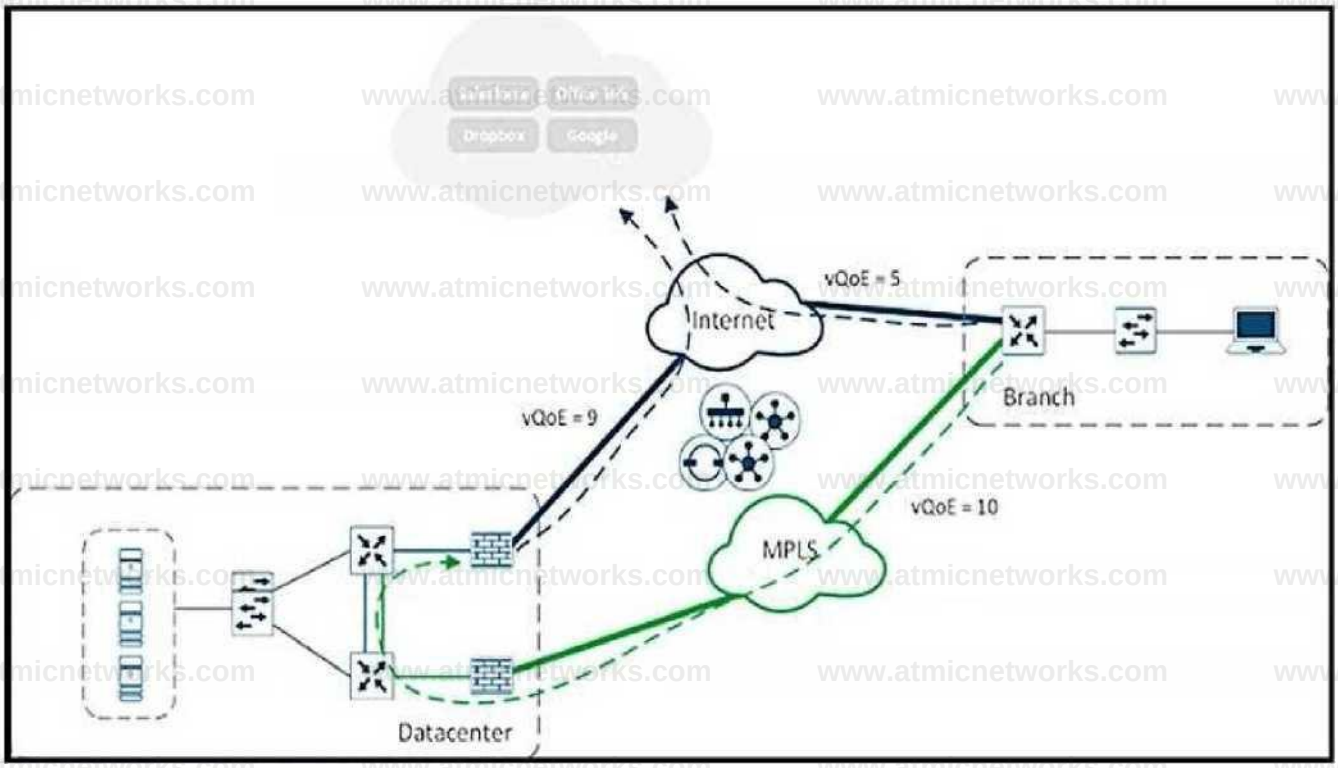
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Explanation:

Question: 223

Refer to the exhibit.



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

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

Answer: B

Explanation:

Question: 224

Which type of lists are used to group related items via an application-aware routing policy under the policy lists command hierarchy on vSmart controllers?

A. data prefix, she. and VPN
B. OSCP value, application, and VPN
C. data prefix, application, and SLA class
D. DSCP value, site, and VPN

Answer: C

Explanation:

Question: 225

An engineer builds a three-node vManage cluster and then realizes that multiple nodes are unnecessary for the size of the company. How should the engineer revert the setup to a single vManage?

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

Answer: B

Explanation:

Question: 226

Which routes are similar to the IP route advertisements when the routing information of WAN Edge routers is learned from the local site and local routing protocols?

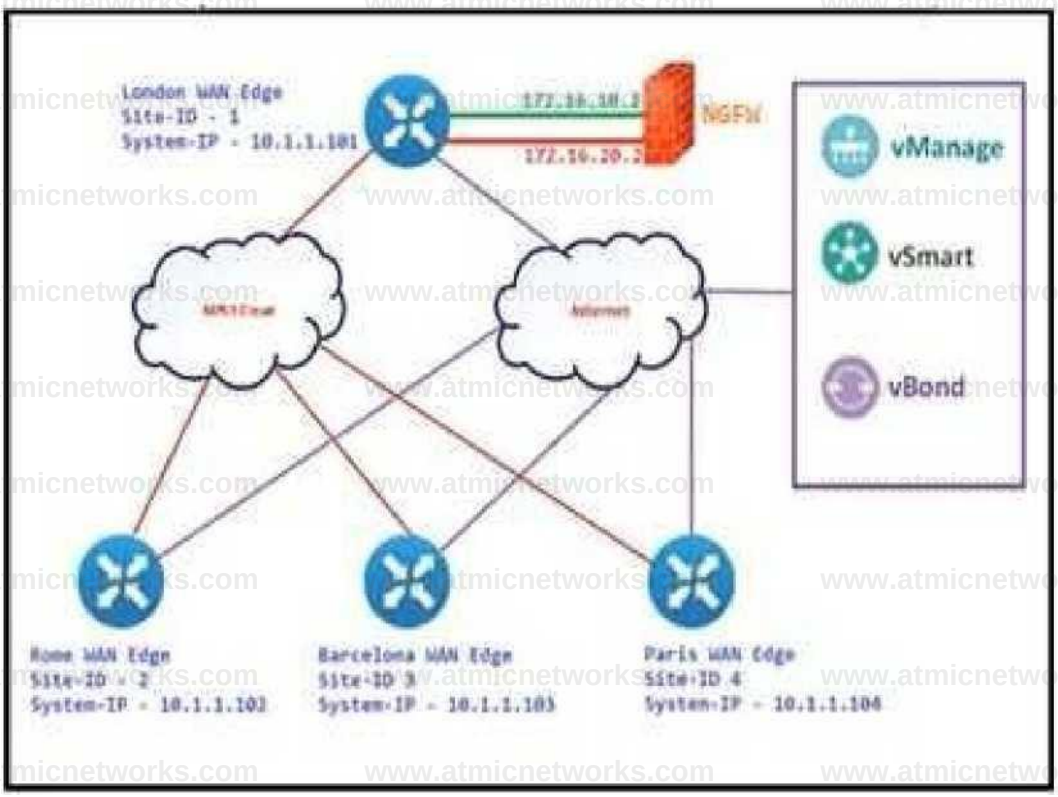
A. service
B. BGP
C. TLOC
D. OMP

Answer: D

Explanation:

Question: 227

Refer to the exhibit.



Refer to the exhibit. The Cisco SD-VYAN is deployed using the default topology. The engineer v/ants to configure a service insertion policy such that all data traffic between Rome to Paris is forwarded through the NGFW located in London. Which configuration fulfills this requirement, assuming that the Sen/ice VPN ID is 1?

A)

Lesion WAN **L^c**

```
vpn 1
  service natsvol address 172 16 10.2
  service n*tsvc2 address 172 16.20.2

pciky Oft*
   site-list ROME
    J it* 3 2
   sits-list PARIS
     sftHdi
 cotitro''policy NGFW-SI
   SWpjMWS 1 mitath rouh
      site-id ROME
    action accept
      sit service netsvcl vpn 1
   ieqii?ice 2
    match routs
      sitt-d PARIS
    action accept MI unde* n«svc2 vpn 1 dsfautbaefflon acctpt

appi^poKcy i> legist ROME control-policy NGFW-S- out

stt»4st PARIS
 control-policy NGFW-Si out
```

B)

LOfMOT '-Wi -
vpn 1
service neisvd adores 172 15.10 2
HT^W **nmvcj tMtw* 172 15.20 2**

uni
m-hit ROWE site-id 2 uta-liit PARIS nfe-d4 cchntrcf-pnlicy NATO'S!
WqUMU 1 **match rauh site id ROME action act** KT
uqLMnoi 2 **match** roule **tito-M** PARIS action ace apt default-action accept

aspl^pdrcy
liMlit **ROME CMfrol-poflicy** MSFW SI «rt

C)

gOt^ WAN E^e

ser/ice rW address 10.1 1 ' G1

PA-1-^**

ittvlct fWid3r*5i i01 1 tOi

vSniaff

lists

>iW4*t ROME

ute-d 2

4,1«-liit PARIS

ti^di

control-polity NGFW-SJ

Mqutmt 1 match route

Hit-id ROWE

action Script

set service netsvcl vpn 1

tequenct2

match ro™ trtr

id PARIS

action accept

Mt iirvlc* nmyc2vpn 1 default-action accept

apply-pdicv

site-list ROME

ciwitrpl-policy NGFW-5I out

SitV^iSt PARI?

wntrol-pollcy NOFW-3I out

D)

HL L. -NLJ..
tablet FWaddreu 10X1.101
RAWS Wi Edo?
wvict FW ad&Mi 101 1 101
v^m^f ■ ■■ ■■?
policy
ltf&
tiffin «CW
sHaUd 2
iita-hst PARIS slt*4d4
wtrot-policf N0W5J
sequence 1 match rout* ill*-id ROME
□ebon accept
MqtWKt 3 mJteh PMM site-id PARIS action
ucq>< default-action accept
appty-poUey
intuit! ROME cowol-pollcy NGFW*SI out

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

Answer: A

Explanation:

Question: 228

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

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

Answer: C

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Explanation:

Question: 229

What are two attributes of vRoute? (Choose two)

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

Answer: A,B

Explanation:

Question: 230

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

A)

```
data-policy SOW DIA
   vpnJiji VPN 172
    sequence 1
     match
      wurc#4p 172.16,0.01'16
       destination-ip 172.16.0.0/16

    sequence 2
     match
      5aurcfr^ataH5r«fix4^t DIA
     action accept
      nat uw-vpn 0

    default-action accept
```

B)

```
daw-pclrcy SOW DiA vpn-JistVPN172 sequence 1 match
     source-ip 172.16.0.0/16
   action accept T
   sequence 2 match
     so uret-tfata-prefix-list DIA action accept nat use-vpn 0
```

default-action accept

C)

dati'pohcy SOW DIA vpn-list VPN172 sequence 1

match

source-ip 172.16.0.0/16 destination-ip 172,16.0.0/16 action accept

sequence 2 match

source-data-prefix^lst DIA action accept nat use-vpo 0

i

default acton accept

D)

data policy SOW DIA vpnJls[VPN172 sequence 1

match

source-ip 172J6.MH6

desti nations p 172.16.0.0^6

Sequence 2 match

source-da u-prefix-tut DIA action accept

<Jef JUK-action accept

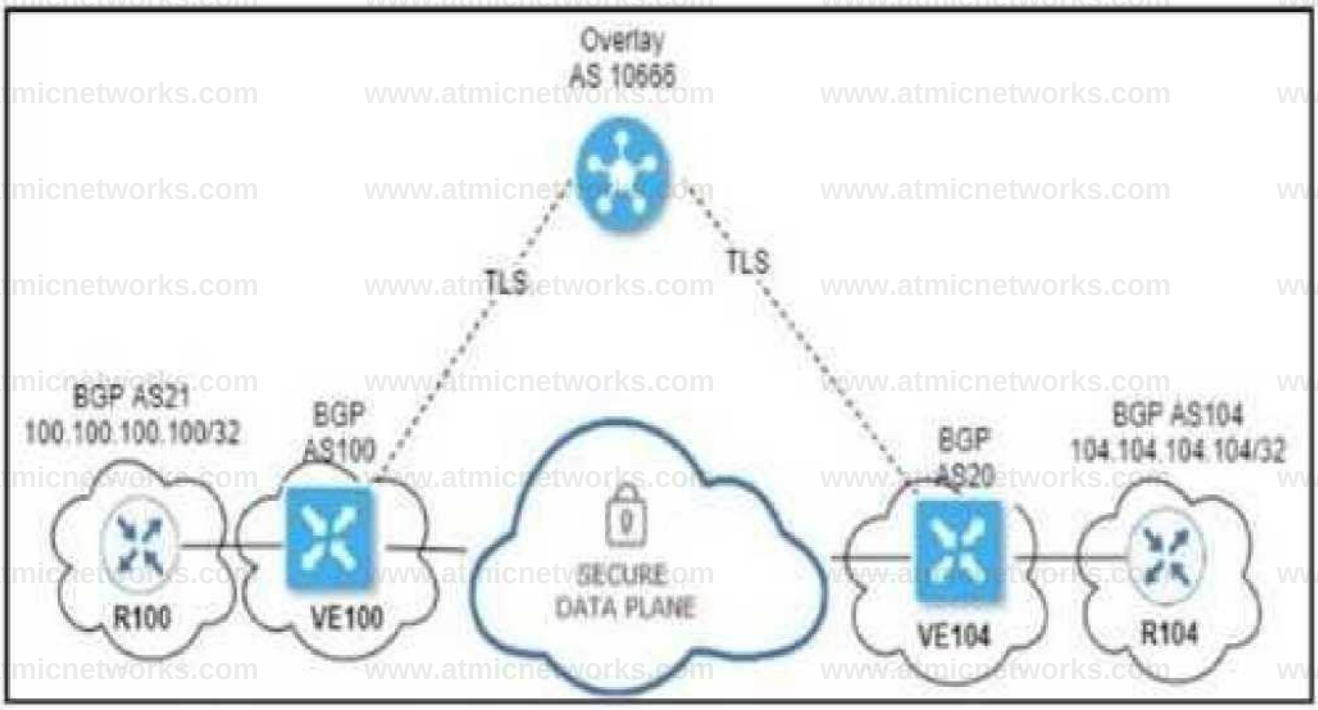
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Explanation:

Question: 231

Refer to the exhibit.



Refer to the exhibit. An ongineer configured OMP with an ovorlay-as of 10666. What is tho AS-PATH for prefix 104.104.104.104/32 on R1007?

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

Answer: A

Explanation:

Question: 232

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

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

Answer: D

Explanation:

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Question: 233

An engineer must configure two branch WAN Edge devices where an Internet connection is available and the controllers are in the headquarters. The requirement is to have IPsec VPN tunnels established between the same colors. Which configuration meets the requirement on both WAN Edge devices?

WAN Edge 1

vpnO
interface ye 0'0
ip address 10.Q.0.1/24
Ipv6 dhcp-client tunnel-interface color biz-internet restrict
encapsulation ipsec

WAN Edge 2

vpn 0
interface gfrWO
Ip address 10.0 0.2/24
ipv6 dhcp -client tunnel-interface color default encapsulation ipsec

WAN Edge 1

Vpn 0
interface geO/0
ip address W.C,0.1/24
Ipv6 dhcp<Hent tunnel-interface color default encapsulation ipsec

WAN Edge 2

vpn 0
interface geO/O
Ip address 10,0-0.2/24
ipvG dhcp-ctfent
tunnel-interface
color default encapsulation ipsec

WAN Edge 1

vpn o
interface geO?O ip address 10.0,0,1/24 lp^ dticp-client **tunnel -interface**
color public-internet restrict encapsulation ipsec

WAN Edge 2

vpn 0
interface geOfO

Ip address 10.0.0.2/24
IpvO dhcp-client tunnel-interface color gold restrict encapsulation ipsec

WAN Edge 1

vpn 0
interlace ge(V0
Ip addies 10.0.0.1/24
Ipv6 ri hep-client tunnel-interlace color gold restrict encapsulation
Ipsec

WAN Edge 2

vpn 0
Interface geO/O
Ip address 1MA2/24 IpvG dhcp-clienl tunnel-interface color gold
restrict encapsulation ipsec

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

D. Option D

Answer: D

Explanation:

Question: 234

Which IP address must be reachable by a WAN Edge device for the ZIP process to work?

A. 10.1.1.1
B. 4.4 4.4
C. 172.16.1.1
D. 8.8.8.8

Answer: D

Explanation:

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Question: 235

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

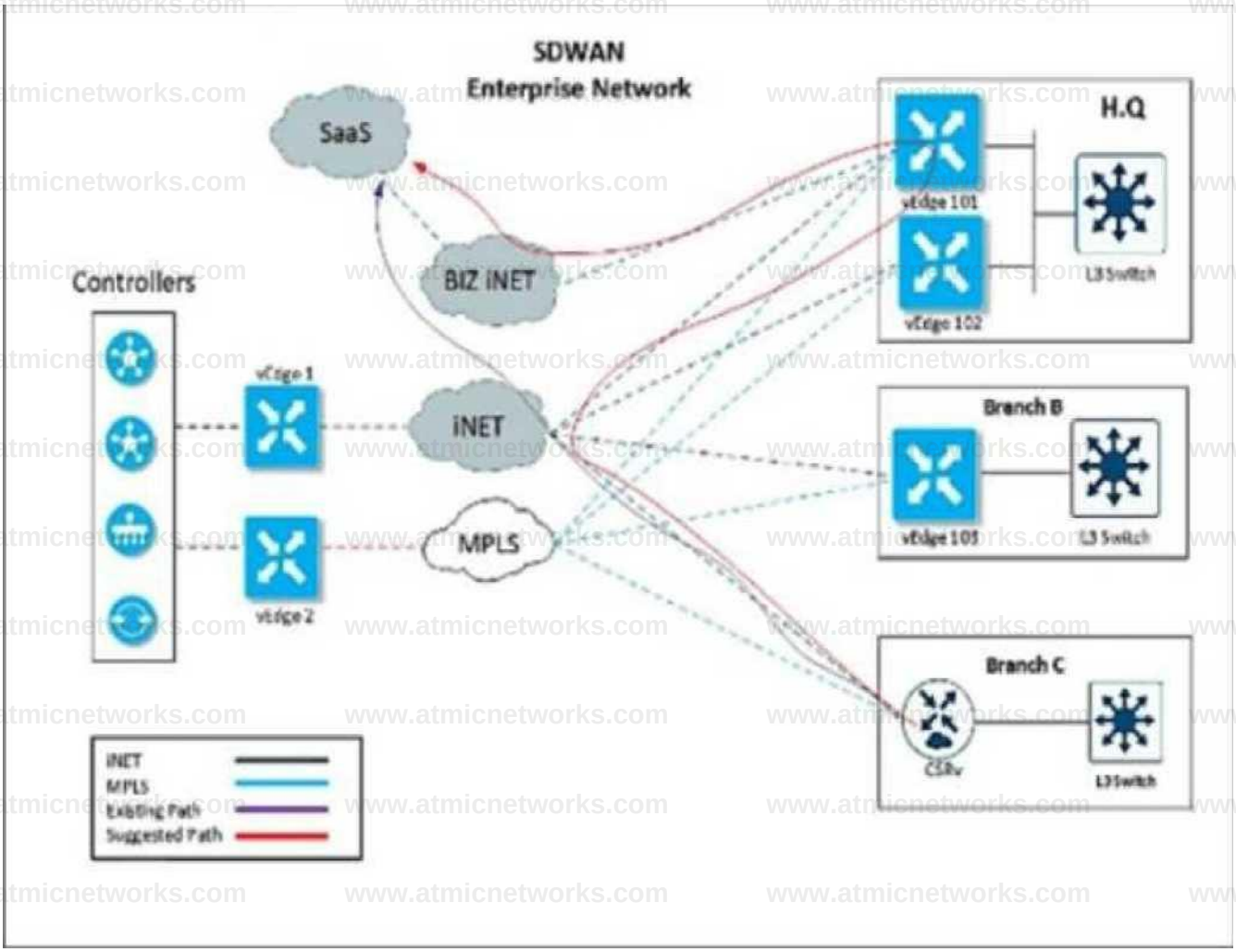
A. vAnalytics
B. vManage NMS
C. vBond Orchestrator
D. Cisco DNA

Answer: B

Explanation:

Question: 236

Refer to the exhibit.



Refer to the exhibit. An enterprise decides to use the Cisco SD-WAN Cloud onRamp for SaaS feature and utilize H.Q site Biz iNET to reach SaaS Cloud for branch C. currently reaching SaaS Cloud directly. Which role must be assigned to devices at both sites in vManage Cloud Express for this solution to work?

A. H.Q to be added as Gateway and Branch as DIA.
B. Branch to be added as Client Sites and H.Q as DIA.
C. Branch to be added as DIA and H.Q as Client Site.
D. H.Q to be added as Gateway and Branch as Client Site.

Answer: B

Explanation:

Question: 237

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

A. QoE

B. OMP

C. BGP
D. BFD

Answer: D

Explanation:

Question: 238

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

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

Answer: C

Explanation:

Question: 239

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

B)

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C)

D.

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

Answer: A

Explanation:

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Question: 240

Which controller is used for provisioning and configuration in a Cisco SD-WAN solution?

A. vBond
B. Manage
C. WAN Edge router
D. vSmart

Answer: B

Explanation:

Question: 241

Which policy configuration must be used to classify traffic as it enters the branch WAN Edge router to be put into the desired output queue?

A)

```
Policy
 class-map
  class pl queue 2
```

B)

```
qovmap QMap
qos-scheduler p1
```

C)

```
Policy
  qos-schedulei QOS
  class pl
  bandwidth-percent 20
  buffer-percent 20
  drops red-dr op
```

D)

```
Policy access-list QoS sequence 1 match destination-ip 10,0.0.0/8
```

1

action accept class pt

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

Answer: D

Explanation:

Question: 242

Which routing protocol has the highest default administrative distance?

A. OMP
B. external EIGRP
C. IS-IS
D. IBGP

Answer: A

Explanation:

Question: 243

An engineer creates this data policy for DIA for VPN 10:

data-pohcy DIA
vpn hit VPN 10
sequence 10
match
d«1in^WKM4-prafiK4ifl INTERNAL **NETWORKS**

action accept

Which policy sequence enables DIA for external networks?

sequence 5 milch

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SQurce-ip 0.0.0.0-0

action accept
nat use-vpn 0

sequence 5
match
deMin ahorvip 0 0 0,0/0

action reject

default-action accept

sequence 20 match
destination-ip 0 0 0 0/0
1
action accept
nal use-vpn 0

sequence 20
match
source-ip 0 0 0 0*0

action reject

default-action accept

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

Answer: C

Explanation:

Question: 244

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

A. VPN 512

B. any VPN number selected

C. services VPN range 0-511 D. VPNO

Answer: D

Explanation:

Question: 245

An enterprise is continuously adding new sites to its Cisco SD-WAN network. It must configure any cached routes flushed when OMP peers have lost adjacency Which configuration allows the cached OMP routes to be flushed after every 24 hours from its routing table?

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○

Basic Configuration | Timers | Advertise

Graceful Restart for OMP	On	Off
Overlay AS Number	24	
Graceful Restart Timer (seconds)	43200	
Number of Paths Advertised per Prefix	4	
ECMP Limit	4	
Shutdown	Yes	No

○

Basic Configuration | Timers | Advertise

Graceful Restart for OMP	On	Off
Overlay AS Number	1	
Graceful Restart Timer (seconds)	86400	
Number of Paths Advertised per Prefix	3	
ECMP Limit	4	
Shutdown	Yes	No

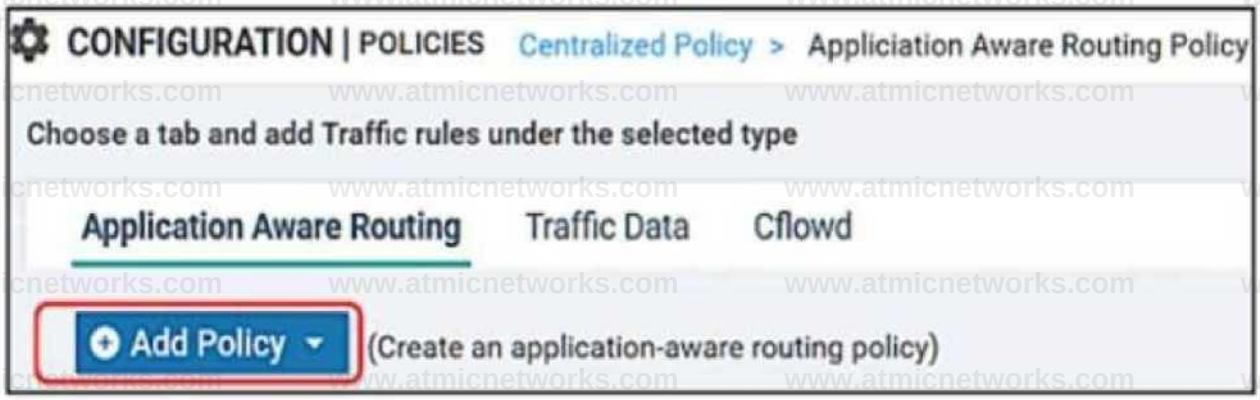
A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Explanation:

Question: 246

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



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

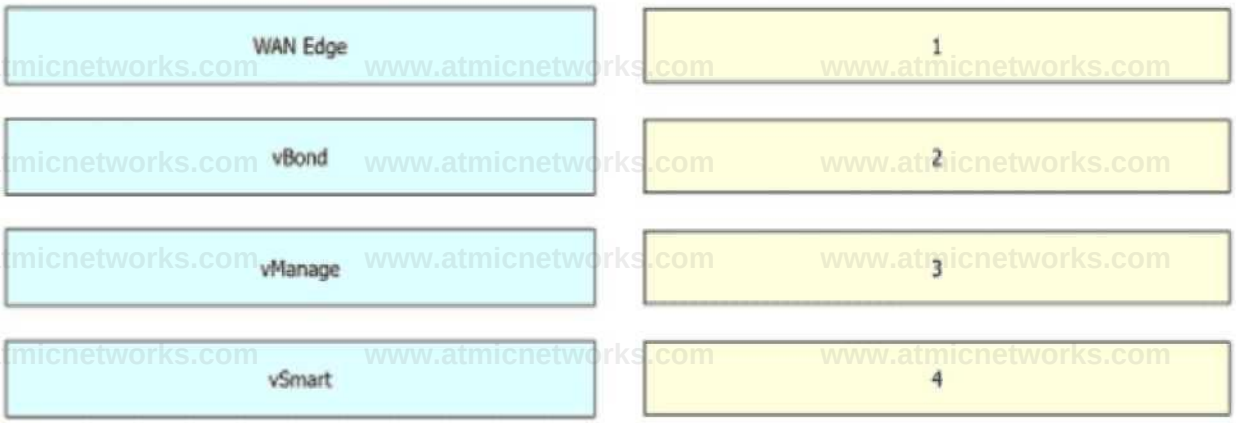
Answer: A,B

Explanation:

Question: 247

DRAG DROP

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



Answer:

Explanation:

Question: 248

Which device information is required on PNP/ZTP to support the zero-touch onboarding process?

A. interface IP address
B. system IP address
C. public DNS entry
D. serial and chassis numbers

Answer: D

Explanation:

Question: 249

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

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

Answer: C

Explanation:

Question: 250

Which protocol is used to propagate multicast join requests over the Cisco SD-WAN fabric?

A. ARP
B. Auto-RP
C. OMP
D. IGMP

Answer: D

Explanation:

Question: 251

Which two REST API functions are performed for Cisco devices in an overlay network? (Choose two)

A. distributing a Snort image among devices
B. attaching a device configuration template
C. managing connections for smart licensing
D. monitoring device certificates
E. querying a device and aggregating statistics

Answer: B,D

Explanation:

Question: 252

Which OMP route is selected for equal OMP route preference values on WAN Edge routers?

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

Answer: A

Explanation:

Question: 253

Refer to the exhibit.

Refer to the exhibit A user has selected the options while configuring a VPN Interface Ethernet feature template What is the required configuration parameter the user must set in this template for this feature to function?

A. The "IP MTU" field must be increased from the default value of 1500 to support the additional overhead.
B. The "Shaping Rate (Kbps)" field must be configured with a value
C. The "Adaptive QoS" field must be set to "on"
D. The "Bandwidth Downstream" field must be configured with a value

Answer: B

Explanation:

Question: 254

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

A. Array

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

Answer: B,C

Explanation:

Question: 255

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

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

Answer: D

Explanation:

Question: 256

Which platform cannot provide IPS and URL filtering capabilities?

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

Answer: B

Explanation:

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Question: 257

An enterprise has these three WAN connections:

public Internet

business internet

MPLS

An engineer must configure two available links to route traffic via both links. Which configuration achieves this objective?

omp no shutdown route-limit 2

omp no shutdown send-path-limit 2

omp no shutdown Overlaps 2

omp no shutdown ecmp-bmit 2

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

Answer: B

Explanation:

Question: 258

Which component is used for stateful inspection of TCP, UDP. and ICMP flows in Cisco SD-WAN firewall policies?

A. zones
B. sites
C. subnets
D. interfaces

Answer: A

Explanation:

Question: 259

Refer to the exhibit.

ni« rm	MIR PROIOCOI	Uli WIN IP	Mil ID	WAIN ID	Pill PRIVAII IP	Pill PtlVAVI PORI	HU MUC	IP P0I1	MI* PUMK	UK* UKO*	SI AH	IRMO*	I RAM	IOC AI «UNI
	dtK	I# 144	1	•	1444	IW	14.1.1	1744/	go 14		Up	HMD	MM RI	4S
VMjrJ^C	dtB	1KI.I.7		1	?.».»	1347	J.l.J.	1M0	gold		W>	HMD	MM RI	/•
wr>fp	dtl*	io i.i ;	1	1	>444	DM/	>444	1714/	ltoi*		up	UVD	NOIM	00

Refer to the exhibit. An engineer is troubleshooting a control connection issue on a WAN Edge device that shows socket errors. The packet capture shows some ICMP packets dropped between the two devices. Which action resolves the issue?

A. Recover the vManage controller that is down m a high availability cluster
B. Change the system IP or restart the VWN Edge 4 the system IP is changed
C. Remove IP duplication in the network and configure a unique IP address
D. Recover vBond or wart for the controller to reload which could be caused by a reset

Answer: C

Explanation:

Question: 260

Which platform is a Cisco SD-WAN virtual platform?

A. Cisco ISR 4000
B. Cisco Nexus 1000V
C. Cisco CSR 1000V
D. Cisco ASR 1000

Answer: C

Explanation:

Question: 261

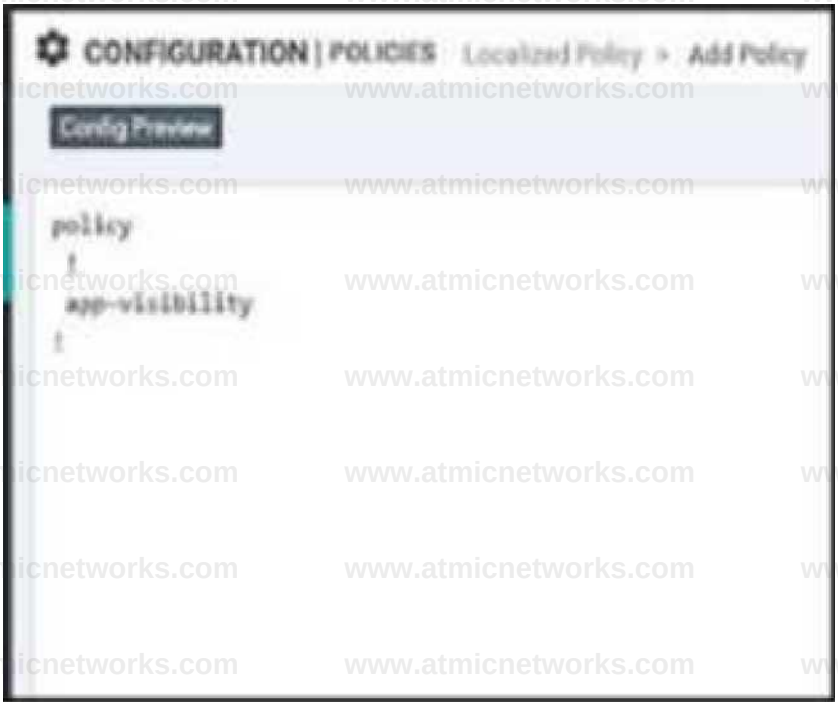
An organization wants to discover monitor and track the applications running on the WAN Edge device on the LAN Which configuration achieves this goal?

[1] CrWOVMjfWrt

n OtkltHfd

Q Maxtor

0 CatfxMorian



□ vAAii^ta

■«]M^

3 DuJitoerd

0 COhFIGURATION *OiCllt rr MP^j

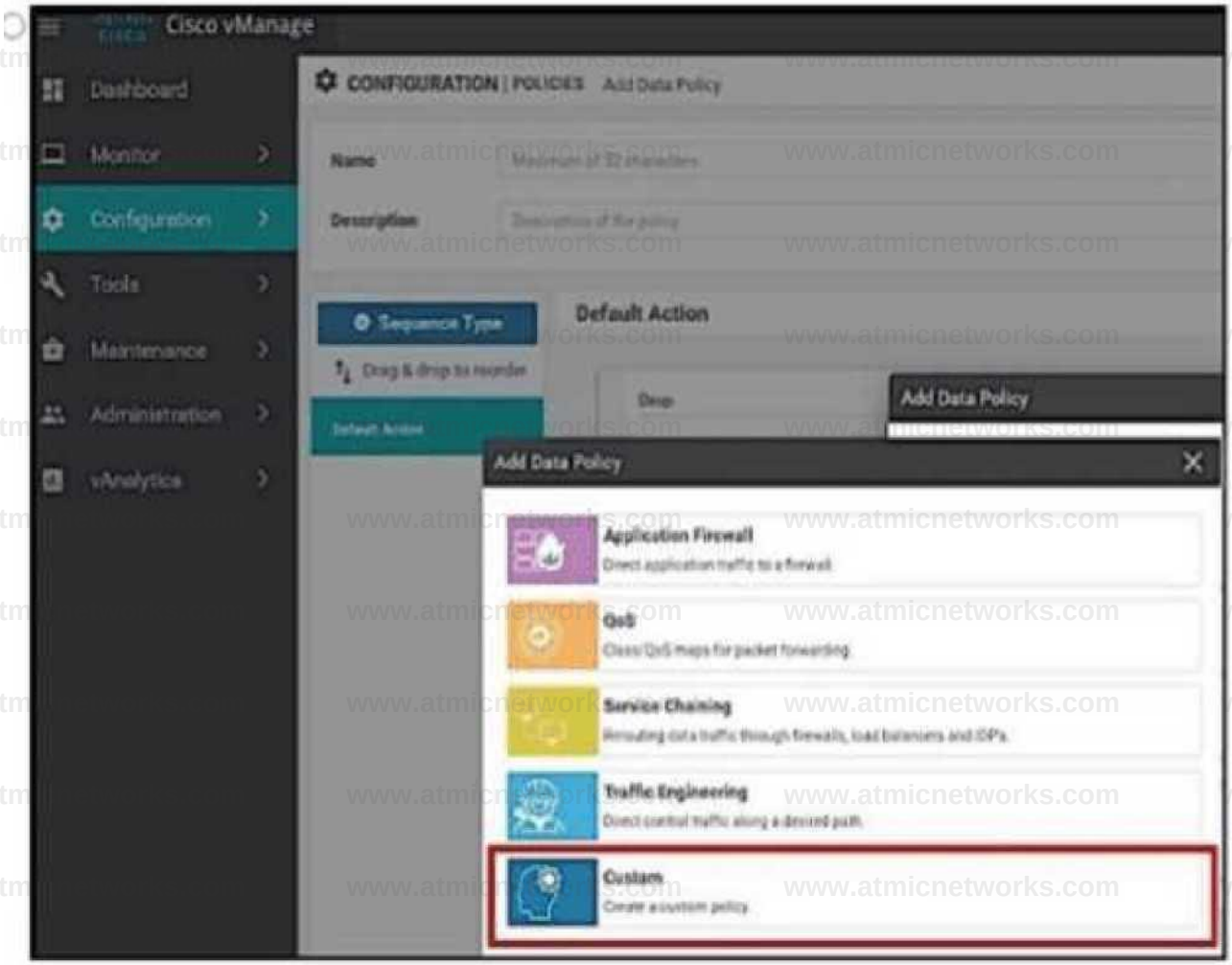
MOTW

H^y
Jf-fLr bid

Q vA/wiybc*

Wil*! **Wt

t



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

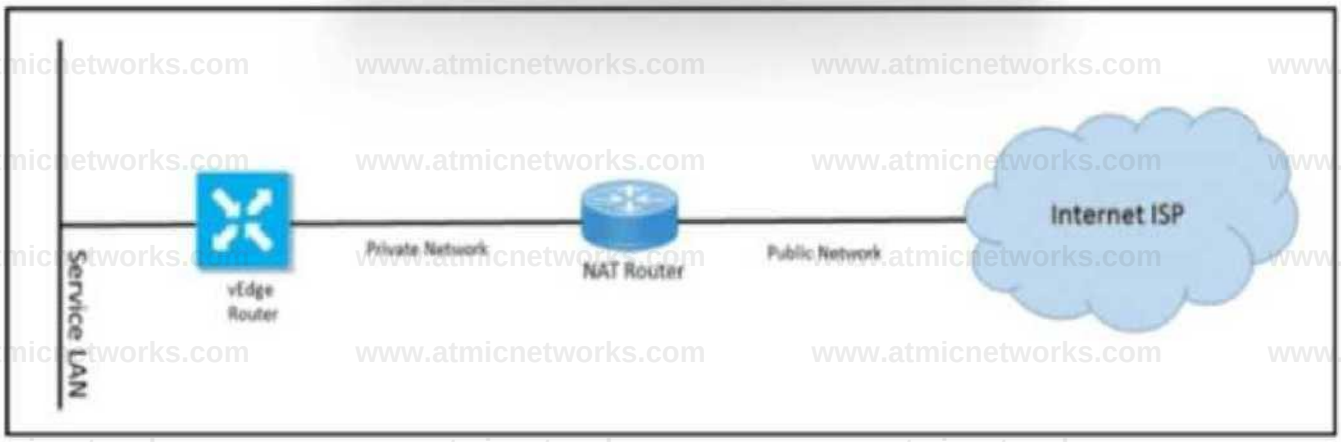
D. Option D

Answer: B

Explanation:

Question: 262

Refer to the exhibit.



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

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

Answer: A

Explanation:

Question: 263

An engineer modifies a data policy for DIA in VPN 67. The location has two Internet-bound circuits.
Only the web browsing traffic must be admitted for DI
A. without further discrimination about which transport to use.
Here is the existing data policy configuration:

data-policy DIA

vpn-Hst VPN-67

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sequence 10
match
destination-data-prefix4ist IN TERN AL-NETWORKS

1

default-action drop

Which policy configuration sequence meets the requirements?

sequence 5
match
destination-port 80 443
destination-ip 0.0.0,0 0

action accept
nat use-vpn 0

sequence 20
match
destination-port 80 443
source-ip 0.0.0.0/0

J

action accept
set
locaMloc-Nst
color blz-Internet

sequence 20
match
destination-port 80 443

destination-ip 0.0.0.0/0

action accept
nat use-vpn 0

(sequence 5
match
destination-port 80 443
source-Ip 0.0.0.0/0
i ■
action accept
set
local-tloc-list
color blz-Internet

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

Answer: A

Explanation:

Question: 264

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

A. site ID
B. preference
C. VPN

D. TLOC
E. origin

Answer: B,C

Explanation:

Question: 265

Which percentage for total memory or total CPU usage for a device is classified as normal in the WAN Edge Health pane?

A. more than 80 percent usage
B. less than 70 percent usage
C. between 70 to 90 percent usage
D. more than 90 percent usage

Answer: B

Explanation:

Question: 266

Which configuration component is used in a firewall security policy?

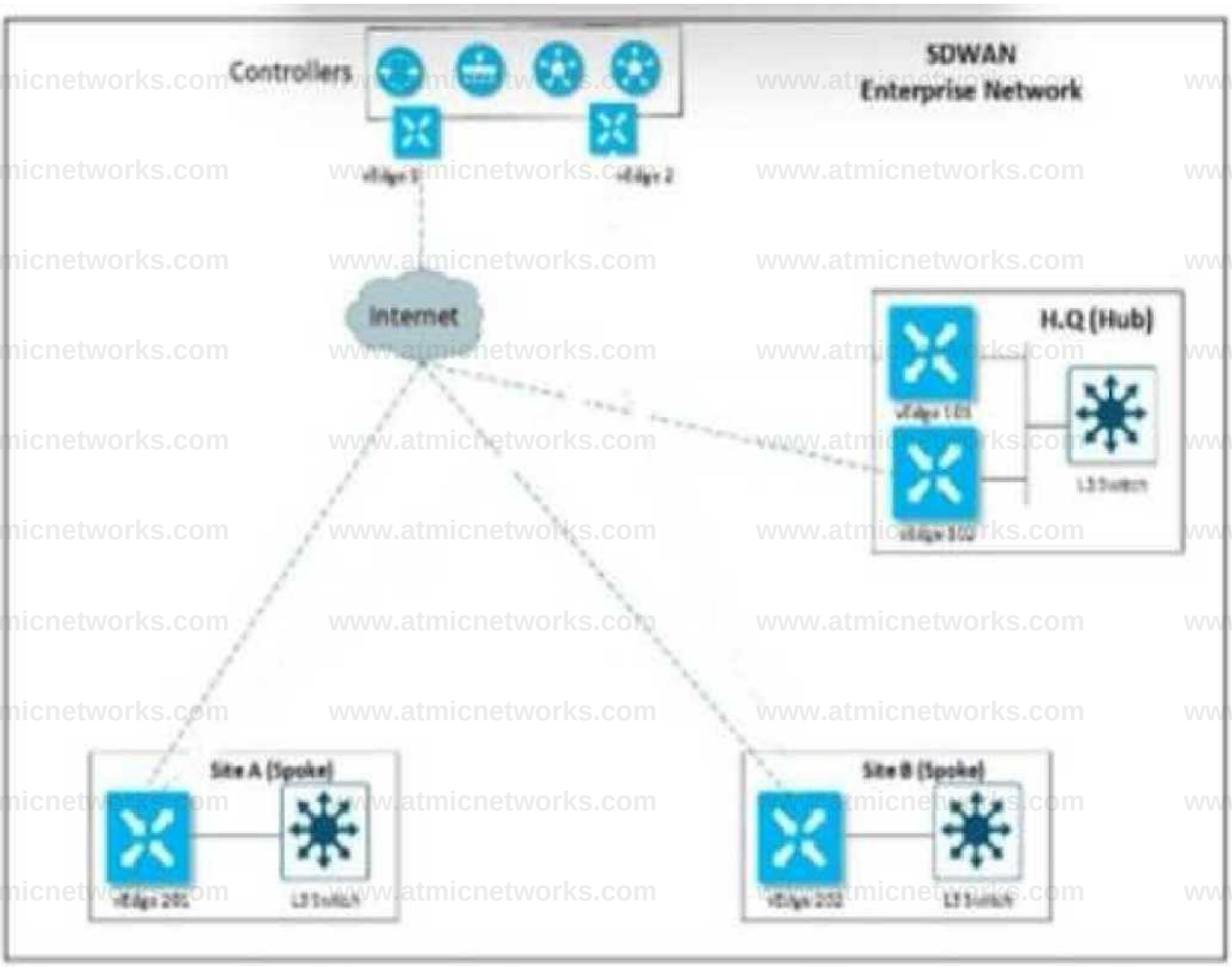
A. numbered sequences of match-action pairs
B. application match parameters
C. URL filtering policy
D. intrusion prevention policy

Answer: A

Explanation:

Question: 267

Refer to the exhibit.



Refer to the exhibit An engineer must configure a QoS policy between me hub and site A (spoke) over a standard internet circuit where traffic shaping is adjusted automatically based on evaiiabk» bandwidth

Which configuration meets the requirement?

HHh sdwin Interact GlgabiiEth*mt1 qa£-jdjpu*e
nenod 90
dcwFiilrMm (NO
downstream rifige Ei MO 1MM
upttHOm GOOD
upstream Wlgt 4000 16000 nit
TUrttieLttflirfacr
•n:jps Nation ipMC Wight I
color pub ic-lnTtmet
Hp iitf-rwfitataUi
VfTUFwgKdnnKtloft-prefmi'ce 5 illow-wrvice eU

^" iSpg^i

IntarfKB &Q#>i(BfrrMCl
qoi-oddpirvt
(wood 40
downstream 1Q0W
downitMMi w$« MMO 12300
upstream 9000
upsiream rang* 5000 16000 uk
tiniri-irterfat*
•ncspsulsiion ipsec weight I optor mpls
(HI Ijit-rpwrt-Circuit
vrnariage-ctinrifctlon-preft'ence 6 dlwratnric* ai

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Hub

ad wan

interface GigabitEthernetl qos adaptive period 90 downstream 8000 downstream range 6000 10000 upstream 8000

upstream range 4000 16000 exit

tun net Jnterface

encapsulation ipsec weight 1

color pubiic Internet no la st resort <kt urt vmanage-connecbon-preferenca 5 show-service all

Sly AlSjiokvj

sdwen

interface GigabitEtherneti qos-adaptive period 90 downstream IOGO

downstream range 6000 10 0 0 0

upstream 8000

upstream range 4000 16000 exit

tunnel-interface

encapsulation ipsec weight 1 color public internet no lasbresort-circuit

vmanage-connecbon-preterence 5 allow servtce all

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

Answer: D

Explanation:

Question: 268

Refer to the exhibit.

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

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

Answer: C

Explanation:

Question: 269

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

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

D. from 1 to 48

Answer: C

Explanation:

Question: 270

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

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

Answer: A,D

Explanation:

Question: 271

Which two performance data details are provided by Cisco SO-WAN vAnalytics? (Choose two)

A. jitter loss and latency for data tunnels
B. application quality of experience score from zero to ten
C. detail on total cost of ownership for the fabric
D. certificate authority status (health and expiration dates) for all controllers
E. view devices connected to a vManage NMS

Answer: A,B

Explanation:

Question: 272

How are policies deployed on cloud-tiosted Cisco SD-WAN controllers?

A. Policies are created on vSmart and enforced by vSmart
B. Policies are created on vSmart and enforced by vManage
C. Policies are created on vManage and enforced by vManage.
D. Policies are created on vManage and enforced by vSman

Answer: A

Explanation:

Question: 273

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

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

Answer: C

Explanation:

Question: 274

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

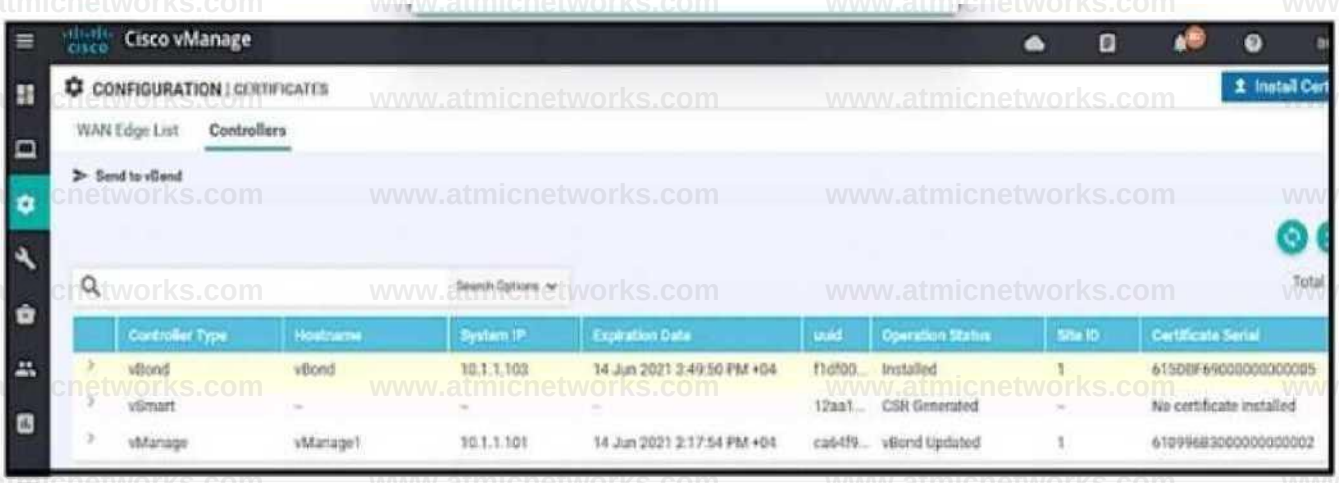
A. .txt
B. .pdf
C. csv
D. xlsx

Answer: C

Explanation:

Question: 275

Refer to the exhibit.



Refer to the exhibit vManage and vBond have an issue establishing a connection to vSmart Which two actions does the administrator take to fix the issue? (Choose two)

Install the certificate received from the certificate server.

A. Manually resync vManage and vBond
B. Reconfigure the vSmart from CLI with the proper Hostname & System IP
C. Delete and re-add vSmart Click Generate and validate CSR
D. Request a certificate from the certificate server based on the CSR for the vSmart

Answer: C,D

Explanation:

Question: 276

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

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

Answer: C

Explanation:

Question: 277

How should the IP addresses be assigned for all members of a Cisco vManage cluster located in the same

data center?

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

Answer: A

Explanation:

Question: 278

An engineer must avoid routing loops on the SD-WAN fabric for routes advertised between data center sites Which BGP loop prevention attribute must be configured on the routers to meet this requirement?

A. same OMP overlay-as on WAN Edge routers of all data centers
B. static routing on al WAN Edge routers instead of BGP
C. same BGP AS between all WAN Edge routers and CE routers
D. same BGP AS between all CE and PE routers

Answer: A

Explanation:

Question: 279

Which protocol advertises WAN edge routes on the service side?

A. EIGRP
B. OSPF
C. BGP
D. ISIS

Answer: B

Explanation:

Question: 280

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

A)

vpn 10
nama — SoHrict VPN 10 *“ omp**
redistribute cwnocted

B)
omp no shutdown growfuHt start jav*rt]» connected

C)
omp
no shutdown pattU-rtnoH tedtur but* connoctta

D)

vpn 10
nam* — SoMct VPN IO **omp**
advortno connected

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

Answer: D

Explanation:

Question: 281

What are the two functions of vSmart? (Choose two)

A. It orchestrates connectivity between WAN Edge routers using policies to create network topology
B. It ensures that valid WAN Edge routers can build the control pane connectivity

C. It uses TLOCs to uniquely identify the circuit interface to control plane and data plane information D. It validates that the WAN Edge trying to join the overlay is authorized to join.
E. It builds control plane connections with WAN Edge routers using ILS or UILS

Answer: D,E

Explanation:

Question: 282

Which two actions are necessary to set the Controller Certificate Authorization mode to indicate a root

certificate? (Choose two)

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

Answer: C,D

Explanation:

Question: 283

Refer to the exhibit.

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

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

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

Answer: A

Explanation:

Question: 284

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

A. Triple DES
B. IPsec

C. AES-128
D. AES-256 GCM

Answer: D

Explanation:

Question: 285

A customer has 1 to 100 service VPNs and wants to restrict outbound updates for VPN1 Which control policy configuration restricts these updates?

A)

i.

>44

,■.-■■■■■ f VPN7-1W **fvpr** 2-1**lX;**

r ■]k l ■ .i ^-. v r el4f **^2- 1ft)**

fttqiMAM 10 lutTi rude **vpiJll VPN?'**WO r

, --ir '4«1

i|*tei!l-Ktan ««$!>

B)

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

C)

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

D)

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

A. Option A

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

Answer: C

Explanation:

Question: 286

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

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

Answer: A

Explanation:

Question: 287

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

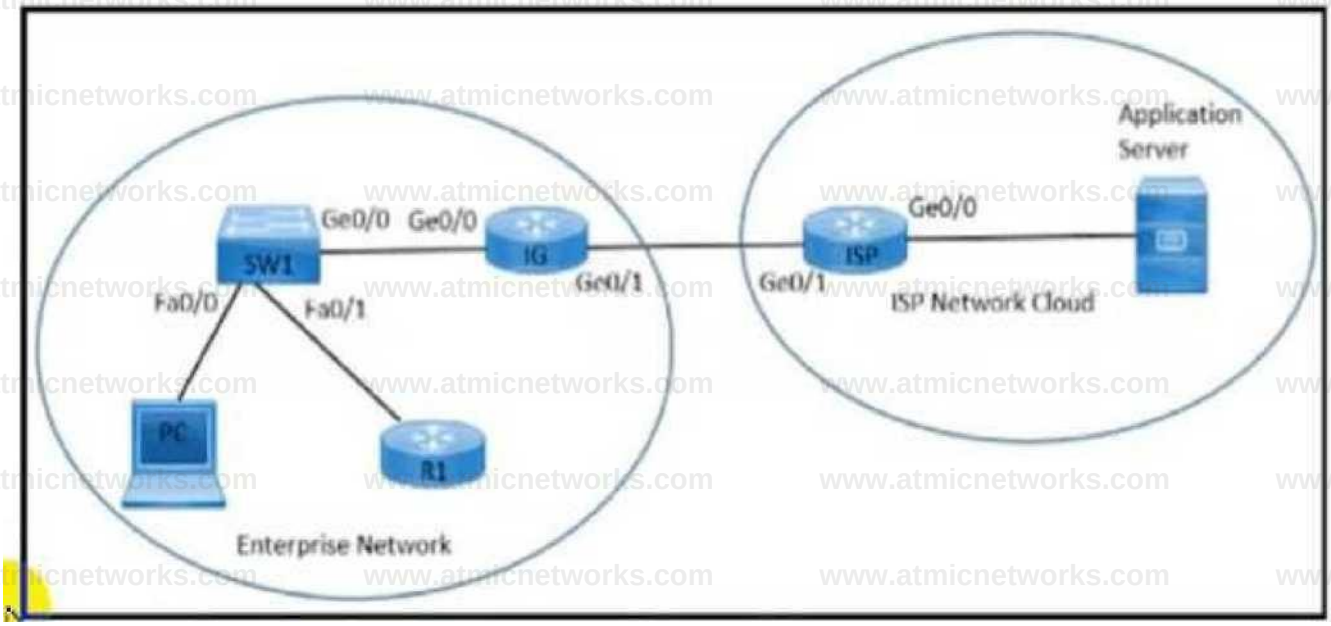
A. Policy changes propagation stops
B. Statistics collection stops
C. BFD peering between WAN Edge devices are unestablished
D. Creation of templates is impossible
E. IPsec tunnels tear down for WAN Edge devices.

Answer: A,B

Explanation:

Question: 288

Refer to the exhibit.



Refer to the exhibit. An enterprise network is connected with an ISP network on an 80 Mbps bandwidth link. The network operation team observes 100 Mbps traffic on the 1Gig-ISP link during peak hours Which configuration provides bandwidth control to avoid traffic congestion during peak hours?

A)

policy-map CUS PMAP
class CUS CHAP
police HObOMQ 3 00000

interface gigabitethmrii 0/0
description ~ TO SW
ip address 100J0-5 25 5.255.25 5 0
se^ice-oobcy input CUSjPMAPd

B)

poHey-rrap SHAPE^MAP class dus-dtfadt
shape average 80000000

Interface gigabtttthemet 0.1
description ' TO i SP
ip address 10 0 20 5 255 255 255 0
Mvktfrpfrllcy output SHAPE^MAP

C)

policy-map CUS PMAP
danCUS CMAP police #mmo 3 0 0000

interface g-gabitethemet 0/0

description " TO ISP*"
ip address 10.0.20.1 255 255 255 0
service policy input CUS_PMAP

D)

policy-map SHAPE_MAP class class-default
shape average 800000 0

Interface gigsbJtethemet 0/1
description" TO IGrack &4^5 A NJ J GT JU '

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

Answer: B

Explanation:

Question: 289

Which VManage dashboard is used to monitor the next-hop reachability between two devices traversing through OMP for a service VPN'

A. Troubleshooting > App Route Visualization
B. Troubleshooting > Tunnel Health
C. Troubleshooting > Simulate Flows
D. Troubleshooting > Packet Capture

Answer: C

Explanation:

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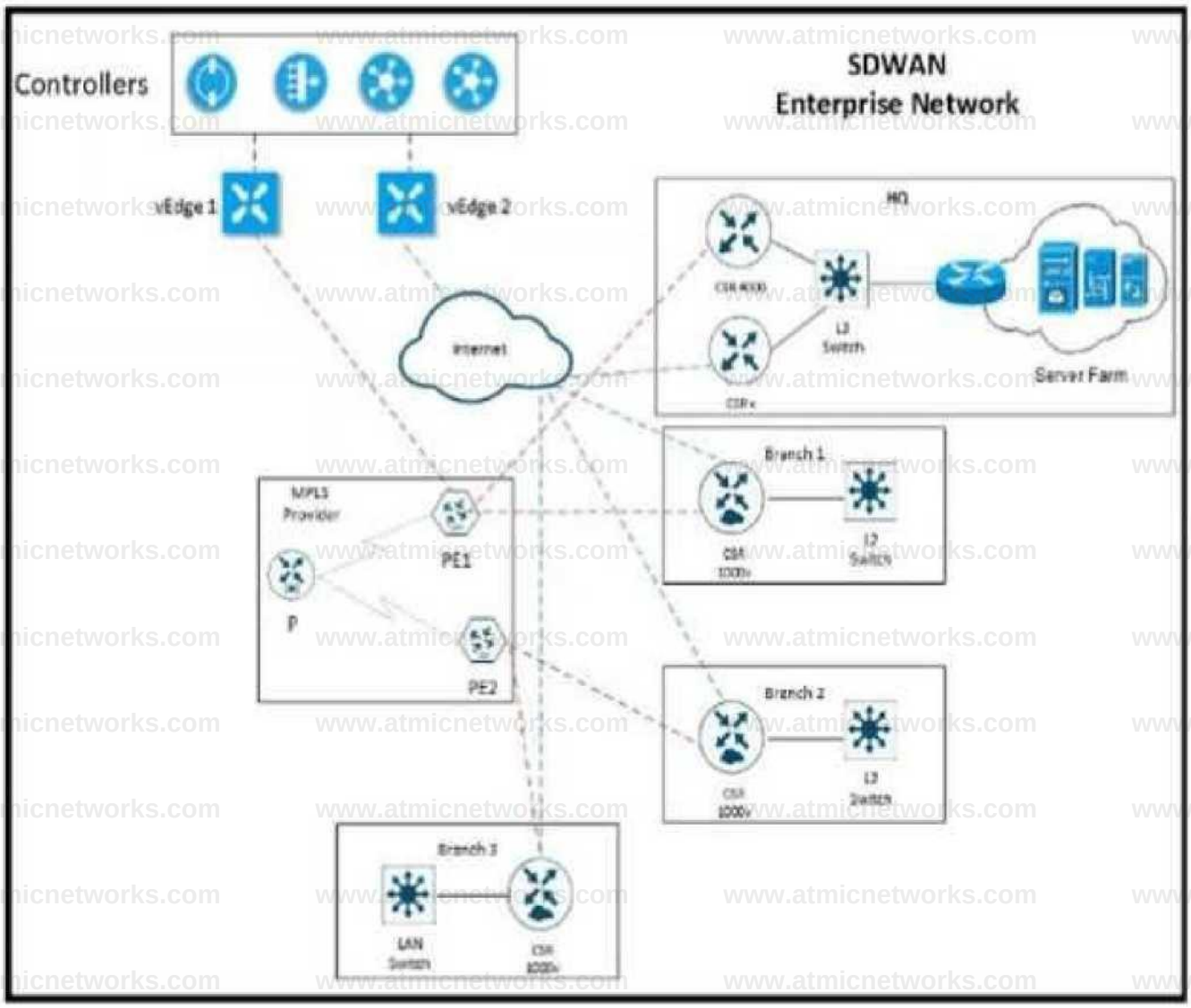
Question: 290

Refer to the exhibit.



Refer to the exhibit The network team must configure El GRP peering at HQ with devices in the service VPN connected to WAN Edge CSRv. CSRv is currently configured with

vlptela-system: system device-model vedge-cloud host-nam CSRv
location CA
system-ip 104.44
domain-id 1
site-id 1
organization-name ABC clock timezone US'Newyork vbond 10.10.0J port 12345

omp
no shutdown
graceful-restart

Which configuration on the WAN Edge meets the requirement*?

A)

vpn 0
interface peOfO
description "^ I nt* met Circuit'^ ip address m 165 200 229*30 tunnel-interface
encapsulation ipsec
color public-internet altowservice all

router
aw
address-family ipv4-unicast mad mum-path paths 4 network 10.0.0 0 28
red^trbule omp

vpn 312
interface ethO shutdown

B)

vpn 0
InltrfK* Q*O.'O
description *" Internet Circuit ™" Ip address 500 16 5 200 220 30 tunnel-interface
•ncaptutMlon ipra color publ c intern er aBow-service aU

router
•^T
address-family tpv4-unicast maximum-path paths 4 network 1C 0 0.0-28

```
        redistribute omp

vpn 512
  interface ethO shutdown
```

C)

```
vpn 0
Interface geC'D
   deicr-phan ^ Internet Circuit" ”' ip Jddntw 709 166 2 Q 3 229'30 tunnel-
   interface
    encapsulation ipsec color pdbbc^nterrttt allow-service alt

vpn 1
   router
     •W
      address-family  ipv44Miust  maximum-path  paths  4  network  10.0  0.0'2$
        redistribute omp

Interface geC l
   IpaddrtM i&a o 123

vpn 512
  Interface wiQ shutdown
```

D)

```
¥pn 0
vpn 1
interface geCO
   description.....Internet Circuit ip Address 2 09.165 2 00 229'30 tunfiei'irlerface
    encapsulation ipsec color public –IF ternet Ai Foodservice a ll

   router
    •iflrp
      address family ipvA-unicast mjxNTiunvFJth paths 4 network 10 0 0 0/2S
        redistribute ftnp

interface geCt
   Ip Address 10.0.01^5

vpn 512
interface «h0 shutdown
```

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

Answer: C

Explanation:

Question: 291

What is the order of operations for software upgrades of Cisco SD-WAN nodes'

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

Answer: D

Explanation:

Question: 292

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

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

Answer: D

Explanation:

Question: 293

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

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

Answer: A

Explanation:

Question: 294

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

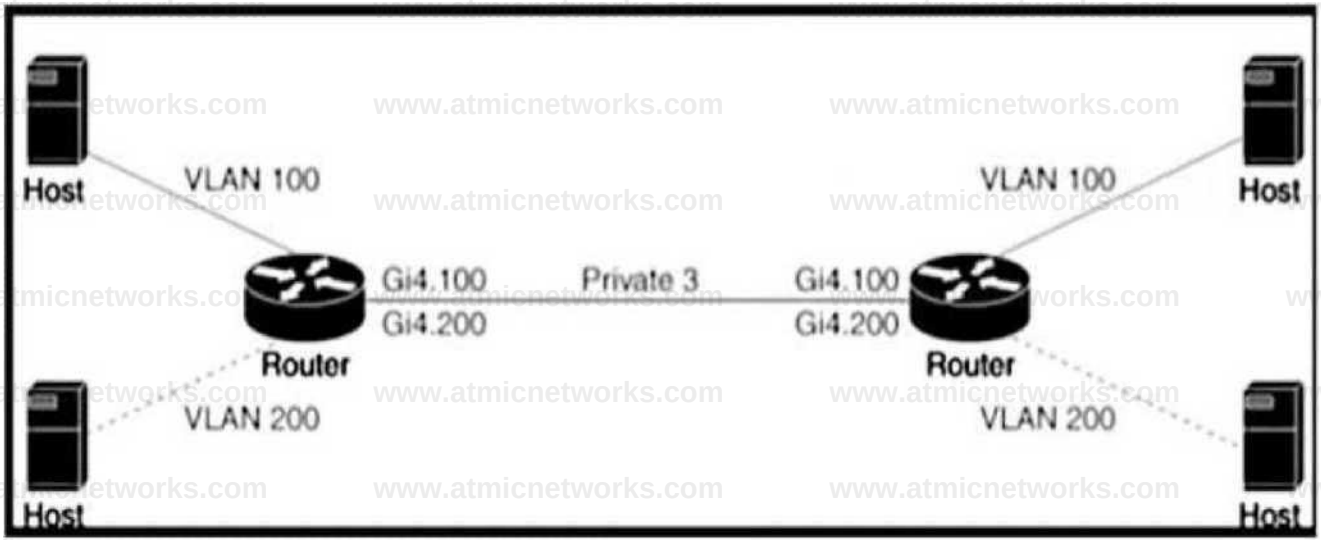
A. Cisco Cloud onRamp for Multicloud
B. Cisco Cloud onRamp for SaaS
C. Cisco Cloud onRamp for Colocation
D. Cisco Cloud onRamp for IaaS

Answer: D

Explanation:

Question: 295

Refer to the exhibit.



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

A)

poihty-wap ^hjpt_GigjbitEth«rntt4 100 dan tljM-dtfouH
if rr'Ci policy Kft.GoS'TMdtt
fhlp* jvfrjgi 100000000

Inttrfict GigabftEthfmftllOO
tnupiuiaTion dotlQ 200

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```
iervtce-polrcy pulpUt ^happ^GigstMtEth^m?!* 100
```

B)

```
policy-wap thapt.GlgabltEthfrnfUJOO
    CtHI tlMI OtfufO
      len ci-polity K/l OcS ^nMlfl
       itaptwmgfl 10QC0K00
1
mter*jcr GigjbitEthemeti 1 JO
    •ncaptutaiiofi dotlQ 200
    WvtH-polky output ihap4_QiQ3blTE9h«rn*!4 10C
```

C)

```
polkyenap shape_GigabitEtherne<4 200
   cbn dawdnuli
     uMH-pcitey xyi_Qo$-mode.
     shape average 100000000
Interface GlgabitEihetneri 100
     encapsulation d«1Q 100
     service'policy output shape^GigabitEthemet* 200
```

D)

```
pal lcy-man ihapt_nQfaablt£therhtt*JiDO dm dm QueutO
     servitt-policy ^yz_QoS-rnodel
     dupe a* erat ■ 100C 00000
interface GrgabitEjl-ernptl 100
    encapsuUttan 4MiO 100
    wvlc^poiicy output ihapt^GlQabhEtherneU 100
```

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

Answer: C

Explanation:

Question: 296

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

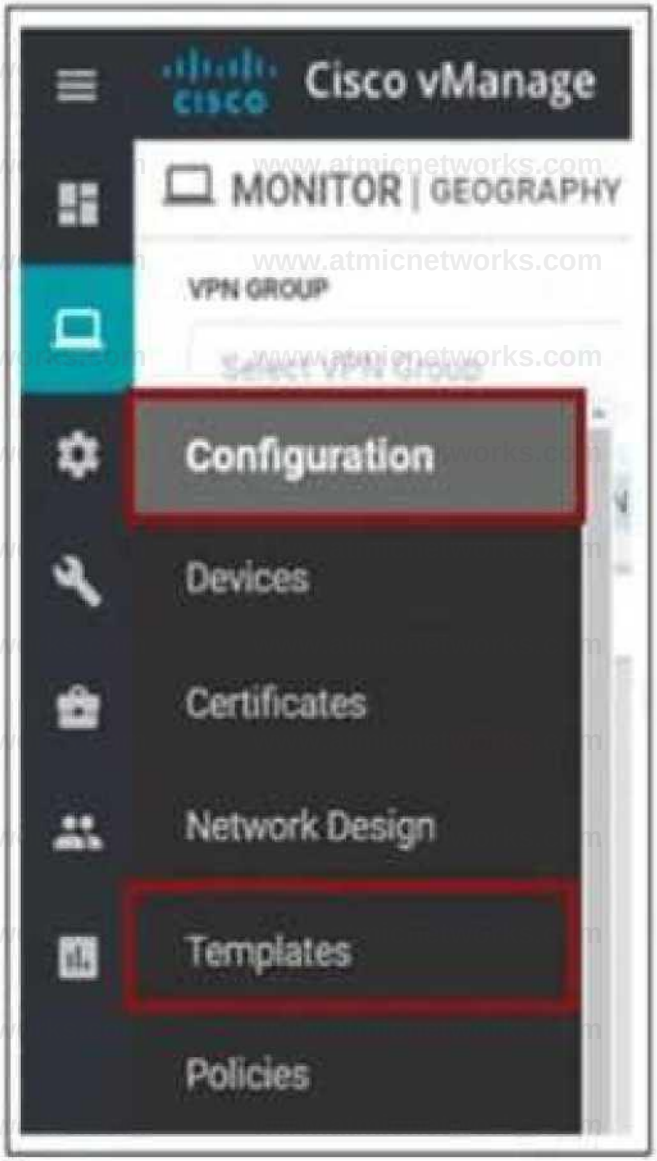
A)

Cisco vManage
MONITOR | GEOGRAPHY
VPN GROUP
Configuration
Devices
Certificates
Network Design
Templates
Policies

B)

Cisco vManage
MONITOR | GEOGRAPHY
VPN GROUP
Select VPN Group
Configuration
Devices
Certificates
Network Design
Templates
Policies

C)



D)

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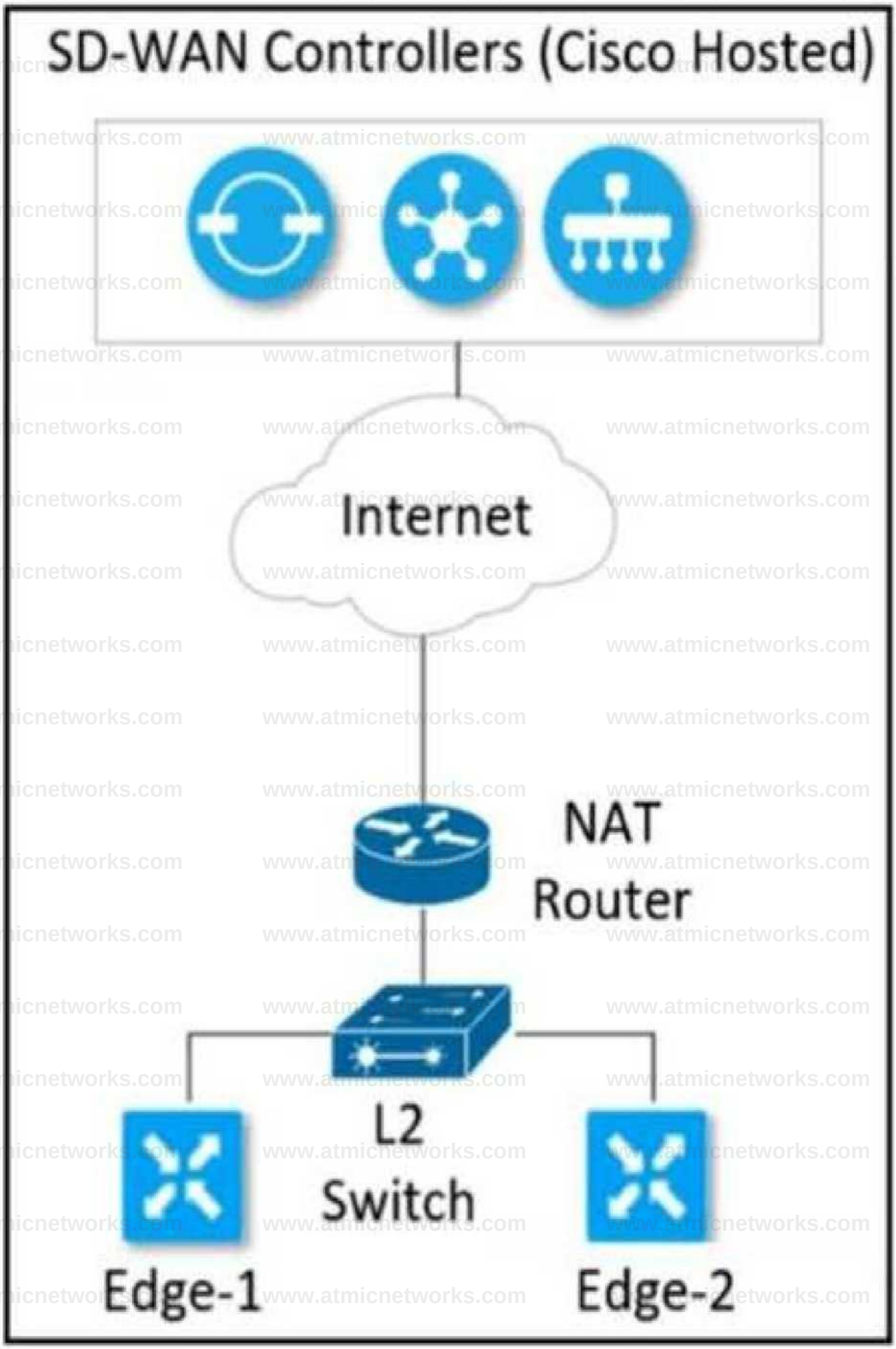
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Explanation:

Question: 297

Refer to the exhibit.



Refer to the exhibit Which configuration must the engineer use to form underlay connectivity for the Cisco SD-WAN network?

A)

SI vpn 612 Jm+rf ac< rthO
Ip Jddr*ss 10.0.0.21 "24 no
shutdown

Ip rout* 0.0.0CO 10 0 0 254

von 512
Interfiw vthD ip address 10X
0.2'24 no shutdown

Ip rout* 0 0 0 CO 1O,O.O.2M

B)

5!
vpn 10 interface 0*0*2
Ip address 1Q 10.10 9 29 no
Shutdown

Ip rout* 0.0 0 CO 10 10.10.11

TO vpn 10 Interne* 0*01 ip
address 10.10.10 10/29 no
shutdown t
Ip route 0 0.0 C O 10 10 10.11

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81 von 0 Interface IflgtCO Ipaddrw 10.60,0 1'29 no shutdown

Ip rout® Q 0 Q CQ 10 M.O 3

£ vpn 0 Interfax lOgvOfO 1p address 10 50.01'29 ho Shutdown

Ip route C 0 C CO ID 50,0 3

C)

RI vpn 0 Imtrtat g+CO tp address 10 50 0 2 3 0 tunrMHmerfm

Ip route 3 0 0 0'0 10 50.0-4

Bl vpn 0 Interface geOt Ip xMrtu 10 50.0 3 30 tunnel interface

Ip route 0 0 0 CO 10 **50** 0 **4**

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

Answer: C

Explanation:

Question: 298

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

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

Answer: A

Explanation:

Question: 299

After deploying Cisco SD-WAN the company realized that by default, all sites built direct IPsec VPN tunnels to

each other In their previous topology all spoke sites used the head office as their next hop for the LAN segment that belongs to network 40.0.0.0/16 The company wants to deploy its previous policy, which allows the 40.0.0.0/16 network that originates at the hub to advertise to the spokes. Which configuration meets the requirement'?

A)

B)

C)

D)

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

Answer: D

Explanation:

Question: 300

An engineer configures an application-aware routing policy for a group of sites The locations depend on public and private transports The policy does not work as expected when one of the transports does not perform properly This policy is configured:

```
policy
 sla-class SULK-DATA loss 20 latency 300 jitter 100

 sla-class TRAN SACT1ONAL_DATA loss 15 latency 50 jitter 100

 sla-cl»s REALTIME loss 20
 latency 100 jitter 30

app-route-policy VPN-10_MPLS_AND_I NE T_ SITES
vpn dis* VPN-10
  sequence 1 match
```


fe

action backup-s la-preferred -color biz-internet sla-class REALTIME preferred-color privatel i

sequence 11 match
dscp 34 i

action
backup-sla-preferred-color biz-internet
sla-class TRANSACTIONAL DATA preferred-color privatel

which configuration completes the policy so that it works for all locations? A)

s 3< 3M TRAN SAC T10NA^_DATA lose 5
latency 50
jitter 100

subclass REALTIME
loss 2
latency 100 jitter 30

B)

tl3<l«t THAN SAC TIONAL^DATA
loss 2
latency 100
jitter 30

slHlass REALTIME
loss 16
latency 100
jitter 100

C)

***-dlU BULKJJATA**
IMS 10 latency 300 Jitter 100

SiMlass REALTIME iOS* 2 latency 100 jitter 30

D)

>I1<I1M BULK_DATA

loss 15
latmcy 100
jitttr 100

tlKlMt TRANSACTIONALJAIA hu 10 latency 300 jhtar 100

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

Answer: A

Explanation:

Question: 301

Which service VPN must be reachable from all WAN Edge devices and the controllers?

A. VPN0
B. VPN10
C. VPN215
D. VPN512

Answer: A

Explanation:

Question: 302

In which Cisco SD-WAN deployment scenario does Cisco Umbrella SIG deliver the most value?

A. when a centralized Internet breakout solution is implemented
B. when resource-intensive security operations are ofloaded from entry-level WAN Edge devices
C. when the identity of several WAN Edge devices is verified throughout the networkthroughout the network

Answer: B

Explanation:

Question: 303

An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

A)

B)

C)

D)

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

Answer: D

Explanation:

Question: 304

Which multicast component is irrelevant when defining a multicast replicator outside the local network without any multicast sources or receivers?

A. PIM interfaces
B. TLOC
C. overlay BFD
D. OMP

Answer: A

Explanation:

Question: 305

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

A. It facilitates SD-WAN toners and controllers to discover their own mapped or translated IP addresses and port numbers
B. It prevents SD-WAN Edge routers from forming sessions with public transports among different service providers
C. It facilitates SD-WAN Edge routers to stay behind a NAT-enabled firewall while the transport

addresses of the SD-WAN controller are unNAT-ed

D. It allows WAN Edge routers to form sessions among MPLS TLOCs using only public IP addresses

Answer: C

Explanation:

Question: 306

An engineer must create a QoS policy by creating a class map and assigning it to the LLQ queue on a WAN Edge router Which configuration accomplishes the task?

A)

B)

C)

D)

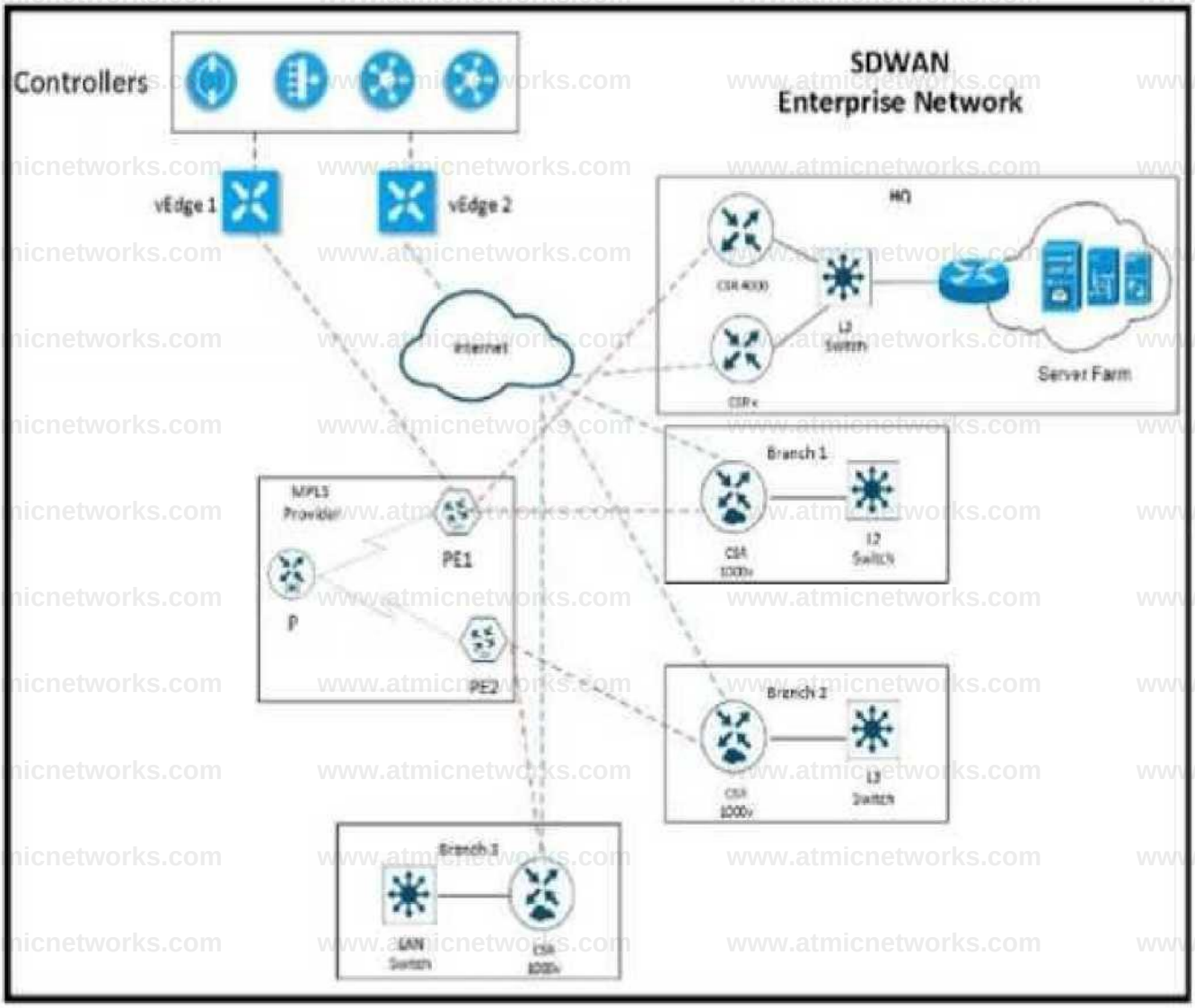
A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Explanation:

Question: 307

Refer to the exhibit.



Refer to the exhibit The network team must configure ElGRP peering at HQ with devices in the service VPN connected to WAN Edge CSRv. CSRv is currently configured with

```
viptelMystem: system device-model vedge-cloud host-nam
                                CSRv
  location          CA
  system-ip                     104.44
  domain-id                     1
  site-id           1
  organization-name ABC clock timezone US/Newyork vbond
  10.10.0,1 port 12345

omp
  no shutdown
  graceful-restart
```

Which configuration on the WAN Edge meets the requirement*?

Which configuration on the WAN Edge meets the requiremnet

A)

```
vpn 0
  router
  eigrp
    address-family ipv4-unicast
      maximum-path paths 4 network 10.0.0.0/28
      redistribute omp

interlace geO 0
  description..... Internet Circuit .....
  ip address 209.165 JOO.22 9'30
  tunneHnterface
    encapsulation ipsec
  color public-internet allow-service all

vpn 512
interface ethO shutdown
```

B)

```
vpn 0 vpn 1 interface geO/O
  description ..... Internet Circuit ""L
  Ip address 209.165.2 00.229 30 tunnel-interface
  encapsulation ipsec color public-internet allow-service
```

```
all

router etgrp
    address-family ipv4-unicast maximum-path paths 4
      network 10.0.0 0 28 redistribute omp

interface ge0/1
  Ip address 10 0 0 1/28

vpn 512 interface ethO shutdown
```

```
vpn 0
interface geO^O description H“‘ Internet Circuit
  Ip address 209 165.2 00 22 9 30 turn el-interface
    encapsulation ipsec Color public-internet
    alloW’Service all

vpn 1 router
    eigrp
      address-family ipv4-unicast maxlmum^path paths 4
        network 10-0-0^28 redistribute omp

interface ge0/1
  Ip address 10,0,0.1/28

vpn 512
Interface ethO shutdown
```

D)

Q vpn 0
interface geO'O description 'J'" Internet Circuit ip address
209,186 2 00-223/30 tunnU-interface
encapsulation ipsec color public-internet al low-service all

router
•t(]rp
address-family ipv4*unicast maximum-path paths 4 network
10.0.0.0'28 redistribute omp

vpn 512
interface ethO shutdown

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

Answer: C

Explanation:

Question: 308

An engineer configured a data policy called ROME-POLICY. Which configuration allows traffic flow from the Rome internal network toward other sites?

A. apply-policy site-list Rome data-policy ROME-POLICY from-tunnel
B. apply-policy site-list Rome data-policy ROME-POLICY from-service
C. site-list Rome control-policy ROME-POLICY in
D. site-list Rome control-policy ROME-POLICY out

Answer: A

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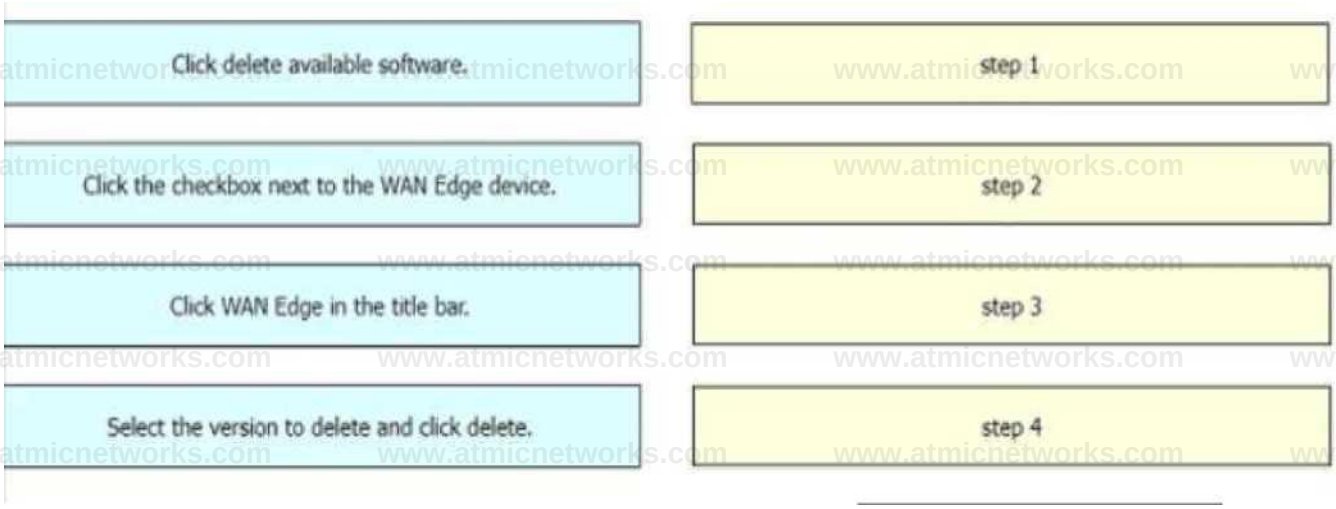
Explanation:

Question: 309

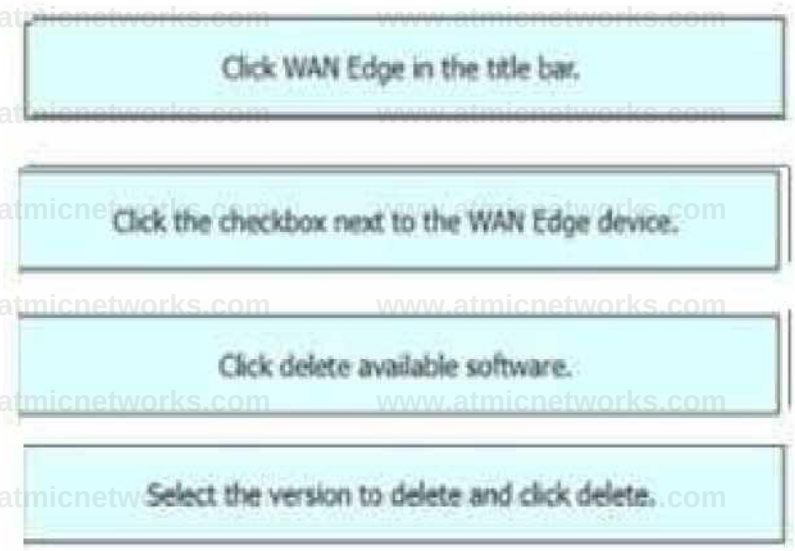
DRAG DROP

Drag and drop the steps from the left Into the order on the right to delete a software image for a WAN Edge router starting with Maintenance > Software Upgrade > Device list on vManage.



Answer:

Explanation:



Question: 310

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

A. POST

B. DELETE

C. scalar

D. array
E. PUT

Answer: C,D

Explanation:

Question: 311

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

A)

```
app-route-pollcy VPN 10 AAR
 vpn-list VPN_50
  sequence 21
   match
    app-list ICMP
    source-ip 0.0.0.0/0
   i
   action
    sla-class ICMP SLA preferred-color public-internet sla-
    class ICMP_SLA preferred-color mpls
```

B)

```
app-route-policy VPN IO AAR
 vpn.list VPN_50~      ” ~
  sequence 21 match app-list ICMP source-Ip 0.0.0.0/0

   action sia-ciass ICMP SLA
```

C)

```
app-route-policy _VPN_1G.AAR
```

vpn-list VPN_5O~ ” "

sequence 21 match app-list ICMP source-ip 0.0.0.0/0

action

sla-class ICMP_SLA preferred-color mpls backup-sla-preferred-color public-internet

D)

App-rOUU-pObCy VPH 10 AAR

vpn-HU VPN-50

sequence21

match

tMHfll ICMP

tource^p 0 0 0 0 0

action

Uxlass iCMPSLA preferred*cok>r mpls public-internet

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

Answer: C

Explanation:

Question: 312

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

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Answer: C

Explanation:

Question: 313

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

Answer: B

Explanation:

Question: 314

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

Answer: B,D

Explanation:

Question: 315

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

A. SSL

B. HTTP

C. iPsec

D. SSM

Answer: B

Explanation:

Question: 316

What must an engineer conewef when decoying an SD-WAN on-pfemlses architecture based on ESXi hypervisor?

A. Cisco must provision the backup and snapshots platform lor ihe SD-WAN arctoecture
B. The managed service provider must provision controllars with their appropriate cerHwcatsi
C. The IT team a required to provision the SO-WAN controllers and Is responsAte lor backups and disaster recovery implementation
D. The IT team will be given access by Cisco to a vManage for configuration If templates and policies coeigmalim

Answer: C

Explanation:

Question: 317

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

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

Answer: B

Explanation:

Question: 318

Which policy allows communication between TLOCs of data centers and spokes and blocks communication between spokes?

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

Answer: B

Explanation:

Question: 319

DRAG DROP

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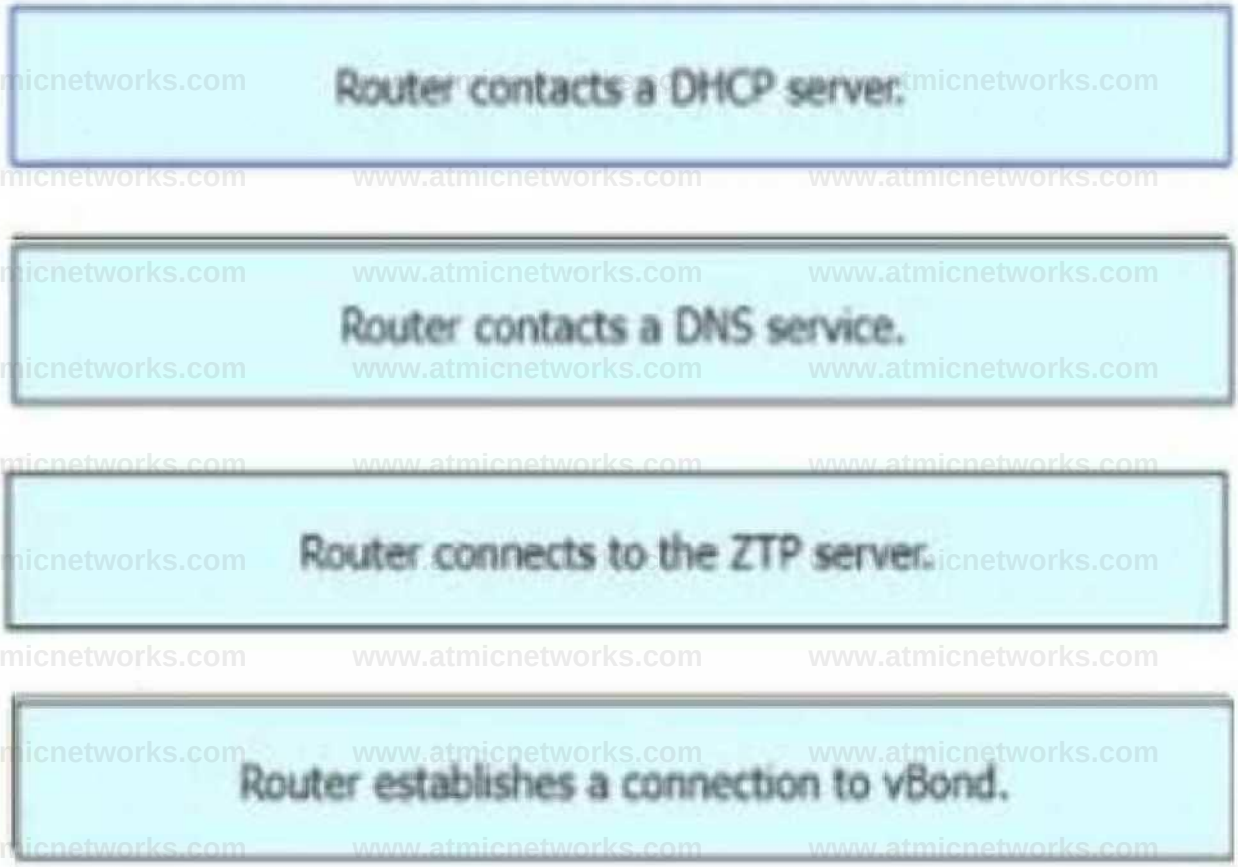
Drag and drop the steps from the left into the sequence on the right for a WAN Edge router after powering on for zero touch provisioning.

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

Answer:

Explanation:



Question: 320

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

Answer: B

Explanation:

Question: 321

How are custom application ports monitored in Cisco SD-WAN controllers?

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

Answer: A

Explanation:

Question: 322

How is lhe 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.

Answer: A

Explanation:

Question: 323

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

A. *.opcnstreetmaps.org

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

Answer: A

Explanation:

Question: 324

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

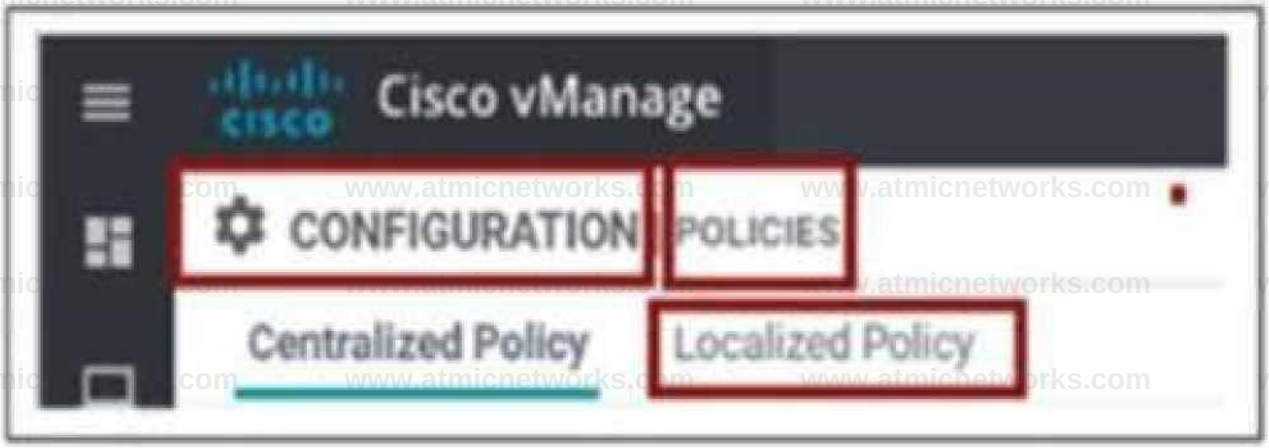
Answer: C

Explanation:

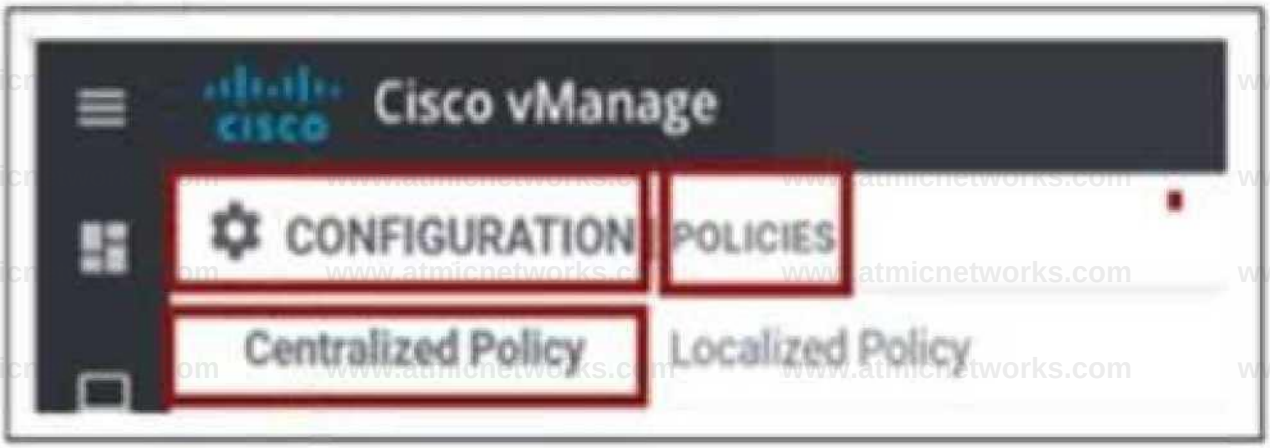
Question: 325

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?

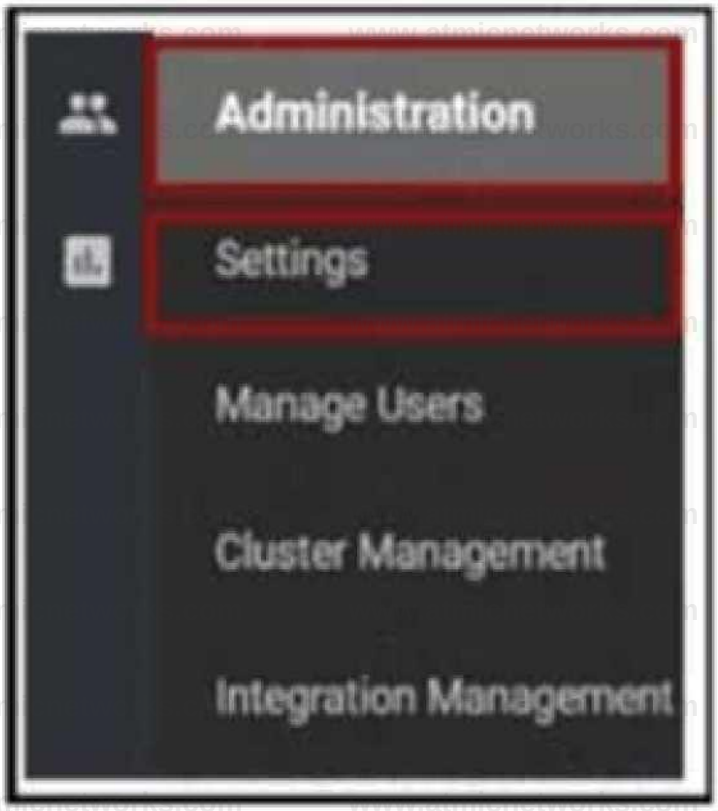
A)



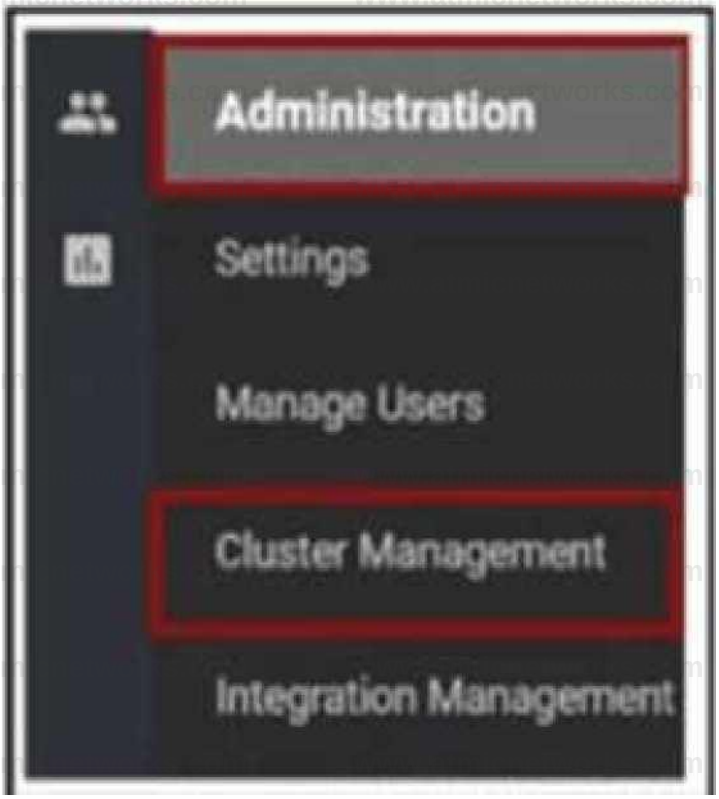
B)


Cisco vManage
CONFIGURATION
POLICIES
Centralized Policy
Localized Policy

C)


Administration
Settings
Manage Users
Cluster Management
Integration Management

D)



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

Answer: B

Explanation:

Question: 326

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

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

Answer: C

Explanation:

Question: 327

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

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

Answer: B

Explanation:

Question: 328

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

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

Answer: A

Explanation:

Question: 329

Which type of policy must be applied on a WAN Edge application-aware firewall to control traffic between two or more VPNs?

A. service-insertion policy
B. data policy
C. firewall policy
D. control policy

Answer: C

Explanation:

Question: 330

Refer to the exhibit.

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Refer to the exhibit A WAN Edge device was recently added to vManage but a control connection could not be established Which action resolves this issue?

A. Rectify the Rod CA certificate mismatch on WAN Edge devices
B. Install the bootstrap code on WAN Edge and check for CSR
C. Send the serial number to vBond from the vManage controller.
D. Resolve the ZTP reachability and rectify smart account credentials issue

Answer: C

Explanation:

Question: 331

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

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

Answer: D

Explanation:

Question: 332

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

A. vGond controllers B. WAN Edge routers

C. vSman controllers
D. vManage NMS

Answer: D

Explanation:

Question: 333

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

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

Answer: C

Explanation:

Question: 334

Refer to the exhibit.

Refer to the exhibit The network team must configure application-aware routing for the Service VPN 50.0.0.0/16 The SLA must prefer MPLS for video traffic but the remaining traffic must use a public network What must be defined other than applications before the application-aware policy is create?

A. SLA Class, Site VPN. Prefix
B. Data Prefix, Site VPN TLOC C. Application, SLA VPN. Prefix
D. Color, SLA Class, Sue, VPN

Answer: A

Explanation:

Question: 335

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

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

Answer: B,E

Explanation:

Question: 336

Which two mechanisms are used by vManage to ensure that the certificate serial number of the WAN Edge router that is needed to authenticate is listed in the WAN Edge Authorized Señal Number Hst' (Choose two)

A. Synchronize to the PnP
B. Manually upload it to vManage
C. The devices register to vManage directly as the devices come online
D. The vManage is shipped with the list
E. Synchronize to the Smart Account

Answer: B,E

Explanation:

Question: 337

Which protocol runs between the vSmart controllers and WAN Edge routers when the vSmart controller acts like a route reflector?

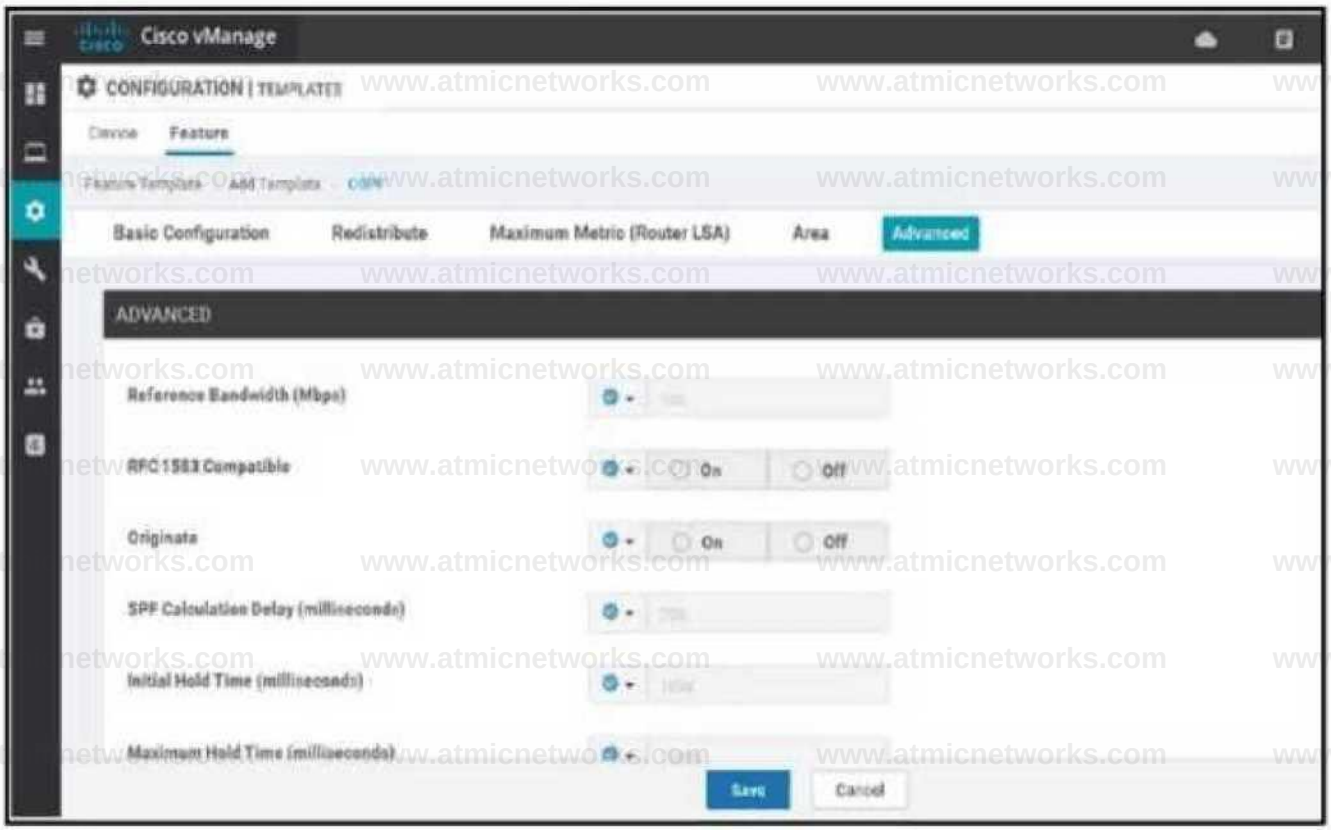
A. OMP outside the DTLS/TLS control connection
B. BGP inside the DTLS/TLS
C. IPsec inside the DTLS/TLS control connection
D. OMP inside the DTLS/TLS control connection

Answer: D

Explanation:

Question: 338

Refer to the exhibit.



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

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

Answer: C

Explanation:

Question: 339

What is the result during a WAN Edge software upgrade process if the version of the WAN Edge software is higher than the one running on a controller device?

A. The upgrade button is greyed out

B. The upgrade proceeds with no warning message.
C. The upgrade fails with a warning message
D. The upgrade proceeds with a warning message

Answer: D

Explanation:

Question: 340

Refer to exhibit. An engineer is troubleshooting tear of control connection even though a valid CertificateSerialNumber is entered. Which two actions resolve Issue? (Choose two)

```
PEER     PEER     PEER            SITE        DOMAIN
PEER              PRIVATE  PEER              PUBLIC                                  LOCAL      REMOTE     REPEAT
INSTANCE TYPE     PROTOCOL SYSTEM IP         ID          ID     PRIVATE IP       PORT     PUBLIC IP        PORT    REMOTE
COLOR     STATE           ERROR      ERROR      COUNT DOWNTIME
-------------------------------------------------------------------------------------------------------------------------------
0        vbond    dtls     0.0.0.0          0           0     192.168.0.231    12346    192.168.0.231    12346   default          tea
t_down       CRTREJDER  NOERR      9     2019-06-01T19:06:32+0200
```

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

Answer: B,C

Explanation:

Question: 341

An engineer is configuring a data policy IPv4 prefixes for a site WAN edge device on a site with edge devices. How is this policy added using the policy configuration wizard?

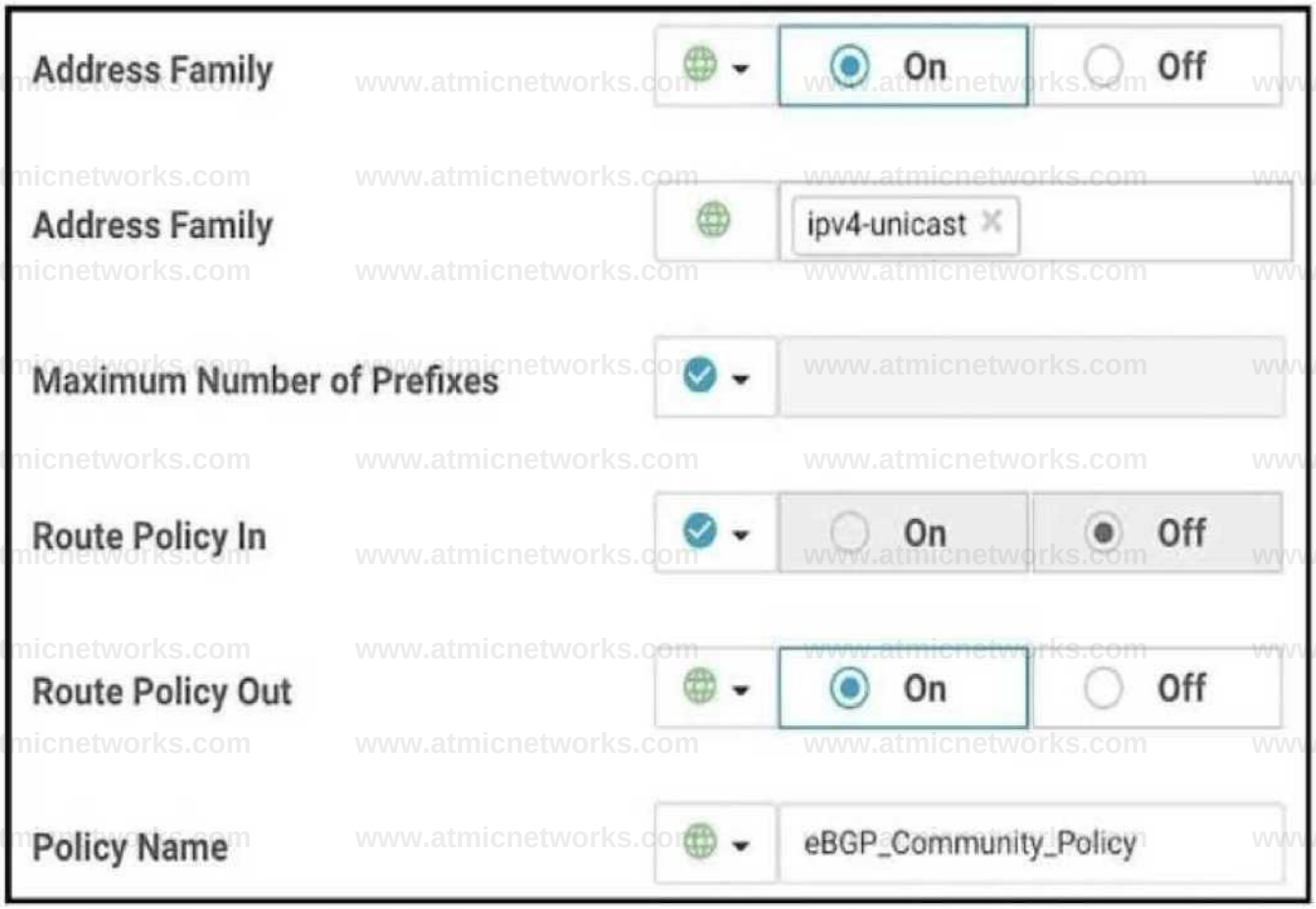
A. In vManage NMS select (he configure ▶ policies screen, select the centralized policy tab and click add policy
B. In vBood orchestrator. select the configure > policies screen select the localized policy tab. and click add policy
C. In vManage NMS. select the configure ▶ policies screen. select the localized policy tab- and click add policy
D. In vSmart controller select tie configure ▶ policies screen, select the localized policy tab, and click add policy

Answer: C

Explanation:

Question: 342

Refer to the exhibit.



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

A)

policy

route-policy * BGPC cm munity ^Policy sequence 1 match address C<xnmunity_Pr?fi>

action accept set community 999 6 6000 no-advertise default action reject

lists

prefix-list Ccmmunity_Prefix

Ip-prefix IC 20 20 0. 24

jp-prtfux 21 21.21 &24

ip-prrfi 22 22 22 0*24

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B)

```
policy
  route-policy •9GP_Community_PoHcy sequence 1 match
      address Communlry^Preftx
      action accept
      set
        community 999:65000 loeahas default action reject
  lists
   prefixes! Community Prefix
     ^prefix 20 2 0 20 0;24
    p-prefn21 21 21 0.24
   lp-prefix 22 22 22 0,24
```

C)

```
  policy
   route-policy eOGP-Communiry-Policy sequence 1 match
        addme Communfty^Prefii
       act or accept
        Mt
         community 991 6 5000 no-export
    d<huf I action accept
  lifts
    prefix-lift Commonity_Prefix
    lp-prefix 20 20 20 0.24
    lp-prefix 21 21.21 0/24
    ^prefix 22 22 22 0 24
```

D)

```
 policy
   route-policy eBGP.Commumty _ Policy sequence 1
       match
       address Community .Prefix
        action accept set
         community 999 6 5000 no-adventa
  default-action accept
  lifts
  prefixes! Comm unity .Prefix
    ip-prefix 2C.2O.2O 0.24
    ip-prefix 21.21.21 0:24
    I f^ nr A A* 99 99 99 A 91
```

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

Answer: D

Explanation:

Question: 343

Which actions must be taken to allow certain departments to require firewall protection when interacting with data center network without including other departments? (Choose two.)

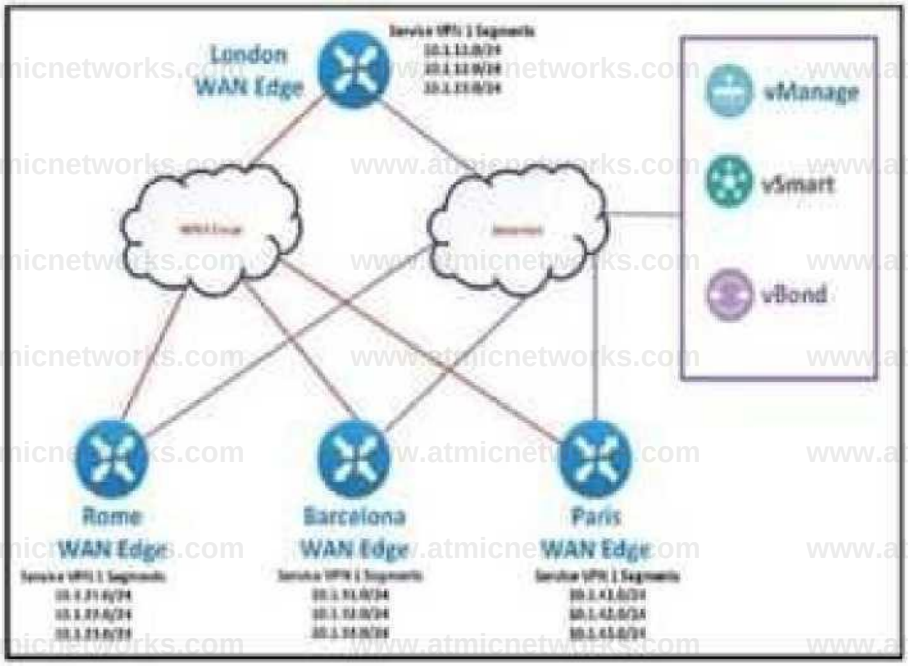
A. Use classification policing and marking
B. Apply data policies at vEdge.
C. Deploy a service-chained firewall service per VPN
D. The regional hub advertises the availability of the firewall service
E. Advertise lo vSmart controllers

Answer: C,D

Explanation:

Question: 344

Refer to the exhibit.



The SD-WAN network is configured with a default full-mesh topology. The SD-WAN engineer wants the Barcelona WAN Edge to use MPLS TLOC as the preferred TLOC when communicating with Rome site. Which configuration must the

engineer use to create a list to select MPLS color toward the Rome TLOC?

A)

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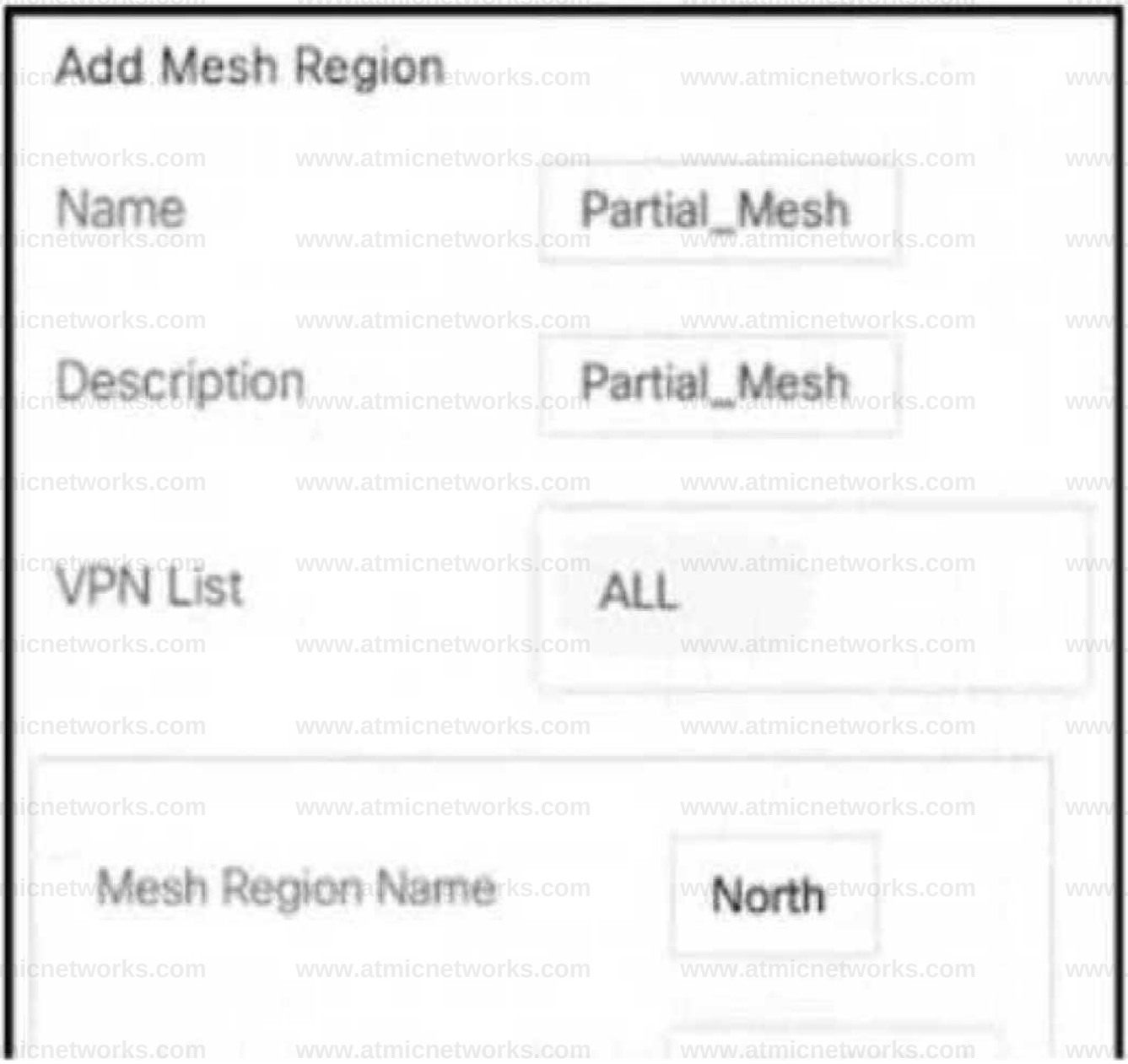

B)

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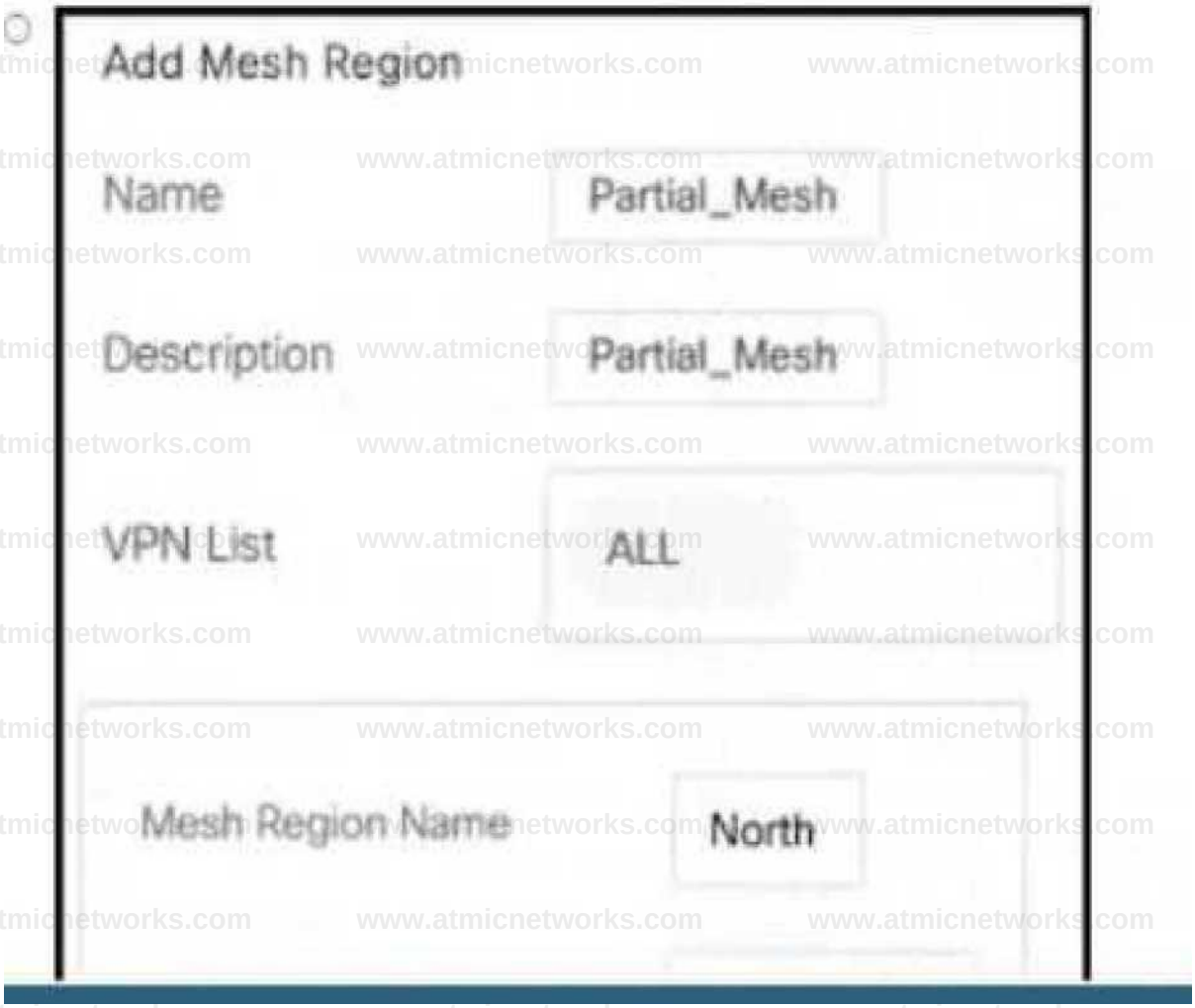
Add Mesh Region
Name
Partial_Mesh
Description
Partial_Mesh
VPN List
ALL
Mesh Region Name
North

C)

Add Control Policy
TLOC
TLOC
Create a policy to apply to TLOCs

D)

Add VPN Membership Policy

VPN Membership Name **Site.to.Srte**

Description **Site to. Site VPN List**

Site List VPN Lists

Spokes **ALL x**

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

Answer: C

Explanation:

Question: 345

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

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

Answer: D

Explanation:

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Question: 346

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

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

Answer: C

Explanation:

Question: 347

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

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

Answer: D

Explanation:

Question: 348

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

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

Answer: A

Explanation:

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Question: 349

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

vpn 512 interface athl ipflidtlFMs19S1 1 1i78 tunn&l-tnT&riace allow*Befvice netconf IM aLlow.setvica ntp no allow-service stun

vpn 0
interface ethl
ipaddF^as 140.1.1.1/28 tun pel-fine riace 8^hw»*Mvicfl Mhd allow-soFvicu nip

vpn 512
11 Ker lacs aLHl
ipfddFW W 1.11'28
■uftM^hteriaoa allow-seivice s»hd allow-wrviM natconf

vpn Q interface sthl totMpmM 19&11128 tunn&l-Interface allowservice Mhd ■Ute*4«fvlc* nttcoiif no shutdown

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

Answer: D

Explanation:

Question: 350

What is the default value for the Multiplier field of the BFD basic configuration in vManage?

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

Answer: D

Explanation:

Question: 351

How is the software managed in Cisco SD-WAN?

A. Software images must be uploaded to vManage through HTTP or FTP

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

Answer: B

Explanation:

Question: 352

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

```
policy
  lists
   vpn-list VPN1
   vpn 1

   data-prefix-list LosAngeles-Net1
    ip-prefix 172.20.21.0/24
   data-prefix-list Rome-Net1
    ip-prefix 172.20.41.0/24

data-policy FILTER-POLICY
  vpn-list VPN1
   sequence 1 match
     source-data-prefix-list LosAngeles-Net1 action
drop i
   sequence 11 match
      source-data-prefix-list Rome-Net1
    action drop

default-action accept
```

O policy lists vpn-list VPN1 vpn 1

data-prefix-list LosAngeles-Net1 ip-prefix 172.20.21.0/24 data-prefix-list Rome-Net1 ip-prefix 172.20.41.0/24

I data-policy FILTER-POLICY vpn-list VPN1 sequence 1 match

source-data-prefix-list LosAngeles-Net1 destination-data-prefix-list Rome-Net1 action drop

default-action accept

CJ policy lists vpn-list VPN1 vpn 1

!

data-prefix-list LosAngeles-Net1 ip-prefix 172.20.0.0/16 data-prefix-list Rome-Net1 ip-prefix 172.20.0.0/16

I data-policy FILTER-POLICY vpn-list VPN1

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O policy lists vpn-list VPN1 vpn 1

data-prefix-list LosAngeles-Net1 ip-prefix 172.20.21.0/24 data-prefix-list Rome-Net1 ip-prefix 172.20.41.0/24

data-policy FILTER-POLICY vpn-list VPN1 sequence 1 match

source-data-prefix-list LosAngeles-Net1 destination-data-prefix-list Rome-Net1 action accept

! default-action drop

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

Answer: B

Explanation:

Question: 353

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

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

Answer: D,E

Explanation:

Question: 354

A company deploys a Cisco SD-WAN solution but has an unstable Internet connection. When the link to vSmart comes back up, the WAN Edge router routing table is not refreshed, and some traffic to the destination network is dropped. The headquarters is the hub site, and it continuously adds new sites to the SD-WAN network. An engineer must configure route refresh between WAN Edge and vSmart within 2 minutes. Which configuration meets this requirement?

omp no shutdown graceful-restart timers
eor-timer 120

omp
no shutdown
no graceful-restart

omp
no shutdown graceful-restart timers
holdtime 120

omp
no shutdown
graceful-restart timers
advertisement-interval 120

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

Answer: A

Explanation:

Question: 355

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

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

Answer: A

Explanation:

Question: 356

Refer to the exhibit.

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

Refer to the exhibit A vBond controller was added to the controller list with the same Enterprise Root CA certificate as vManage. The two controllers can reach each other via VPNO and share the same organization name, but the control connection is not initiated- Which action resolves the issue?

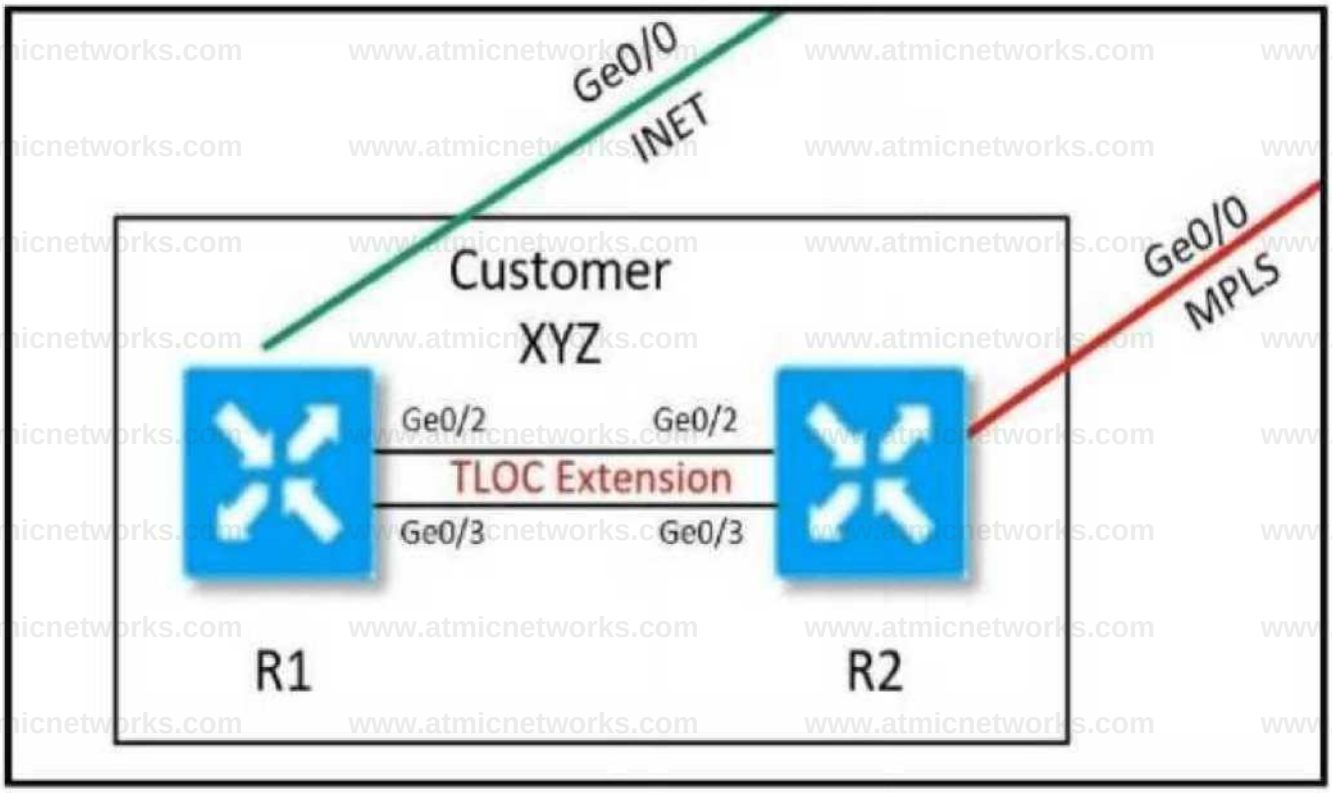
A. Synchronize the WAN Edge list on vManage with controllers.
B. Configure NTP on both controllers to establish a connection.
C. Configure a valid systom IP on the vBond controller.
D. Configure a valid vBond IP on vManage.

Answer: D

Explanation:

Question: 357

Refer to the exhibit.



Customer XYZ cannot provison dual connectivity on both Its routers due to budget constratnts but wants to use tnth RI and R2 interface for users behind them for load toward the hub site Which configurauon achieves this objectives?

A)

R1

interface geO/2 ip address 43.43.43.2/30 tloc-extension geO/O

interface ge0/3 ip address 34.34.34.2/30 tloc-extension geO/O

R2 interface ge0/2 ip address 43.43.43.1/30

interface ge0/3 ip address 34.34.34.1/30

B)

Bl interface ge0'2 ip address 43.43.43.2/30 tloc-extension ge0/0

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

R2

interface geO/2 ip address 43.43.43.1/30 tunnel-interface

color public-internet

interface ge0/3 ip address
34.34.34.2/30 tloc-ext nsion aeO/O

C)

R1

interface geO/2 ip address
43.43.43.2/30 tloc-extension ge0/0

interface geO/3 ip address
34.34.34,2/30
•loc-extension geO 0

R2

interface geO/2
ip address 43.43.43,1/30 tunnel-interface
color public-internet

internee geu 3 ip address
34.34.34.1/30 tunnel-interface
color mpls

D)

R1

interface geO/2 ip address 43.43.43.2/30 tloc-extension geO'O

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

R2

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

interface geO/3 ip address 34.34.34.2/30 tloc-extension geO/2

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

Answer: A

Explanation:

Question: 358

Which timer specifies information in the cache after all OMP sessions are lost at location S0123T4E56F78?

A. advertisement interval
B. EOR timer

C. graceful restart timer
D. hold time

Answer: C

Explanation:

Question: 359

Which encryption algorithm secures binding exchanges Between Cisco TrustSec SXP peers?

A. SEAL
B. 3DES
C. AES
D. MD5

Answer: C

Explanation:

Cisco TrustSec (CTS) is a technology that enables secure access and dynamic role-based access control in the network. The Security Group Tag (SGT) Exchange Protocol (SXP) is used to propagate SGTs across network devices. To ensure the secure exchange of these tags, Cisco uses encryption algorithms.
AES (Advanced Encryption Standard): AES is widely used in many security protocols and standards because of its strong encryption capabilities. In the context of Cisco TrustSec, AES is the encryption algorithm used to secure binding exchanges between SXP peers. It provides robust encryption, ensuring the integrity and confidentiality of the data being exchanged.
Implementation: When configuring SXP peers, the AES encryption ensures that the SGT information transmitted is secure and cannot be intercepted or tampered with by unauthorized entities.

Cisco TrustSec Configuration Guide
Cisco's official documentation on TrustSec SXP deployment

Question: 360

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

Answer: A

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.

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.

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.

Cisco SD-WAN Design Guide

Cisco SD-WAN Configuration and Deployment Guide

Question: 361

Which application list is preconfigured?

A. Google_Apps
B. Cisco Apps
C. Microsoft_Office365
D. P2P_Apps

Answer: C

Explanation:

In Cisco SD-WAN, application lists are used to identify and manage specific types of application traffic. Preconfigured application lists are provided by Cisco to simplify the management and configuration of common applications.

Preconfigured Application Lists: Among the preconfigured application lists provided by Cisco SD- WAN, Microsoft_Office365 is one of them. This list helps in easily identifying and managing traffic related to Microsoft Office 365 applications.

Usage: These preconfigured lists can be used in policies to ensure optimized routing and performance for critical applications like Microsoft Office 365, which are widely used in enterprise environments.

Cisco SD-WAN Application-Aware Routing Configuration Guide

Cisco SD-WAN Policy Framework Documentation