



Vendor: Cisco

Exam Code: 300-415

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

Version: DEMO

QUESTION 1

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

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

Answer: B

Explanation:

Used for web access to the vManage. Cisco installs a self-signed certificate by default. A Self-signed certificate is a Secure Sockets Layer (SSL) certificate that is signed by its own creator.

QUESTION 2

Which policy allows communication between TLOCs of data centers and spokes and blocks communication between spokes?

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

Answer: C

Explanation:

We created a CENTRALIZED POLICY using the vManage GUI. In this policy, we have created another CONTROL POLICY that matches the hub TLOCs and accepts them, all other TLOCs are rejected by the default action at the end - Reject.

QUESTION 3

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

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

Answer: AC

Explanation:

- The gateway vEdge uses HTTP to obtain SaaS application performance information
- The client vEdge will use BFD over the IPsec tunnel to the gateway site to obtain client>gateway path performance information

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Cloud-onRamp-for-SaaS-Deployment-Guide-2018JUL.pdf>

QUESTION 4

An enterprise needs DIA on some of its branches with a common location ID: A042:B49C:D02E::72.

Which WAN Edge configuration meets the requirement?

- A. vpn 1
interface ge0/1
ip address 172.16.0.1/24
vpn 512
ip route 0.0.0.0/0
vpn 0
- B. vpn 1
ip route 0.0.0.0/0
vpn 1
interface ge0/0
ip address 172.16.0.1/24
nat
- C. vpn 0
ip route 0.0.0.0/0 vpn 0
vpn 1
interface ge0/1
ip address 172.16.0.1/24
nat
- D. vpn 0
interface ge0/0
ip address 172.16.0.1/24
nat
vpn 1
ip route 0.0.0.0/0 vpn 0

Answer: D

Explanation:

Enable NAT on the transport interface. VPN 0

Create static route in the service VPN to direct traffic out of the NATed transport.

QUESTION 5

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: B

Explanation:

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

"If the VNF image is referenced by a service chain, it can't be deleted."

QUESTION 6

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

- A. app route policy on vSmart
- B. data policy on vSmart
- C. control policy on vSmart

D. control policy on vManage

Answer: D

Explanation:

We configure the control policy at vManage and when we activate this policy, then the policy is applied and force on vSmart controller.

QUESTION 7

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 fulfills this requirement?

- A. **policy**
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
nat use-vpn 0
nat fallback
default-action reject
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encaps ipsec preference 300
tloc 10.4.4.4 color public-internet encaps ipsec preference 600
- B. **policy**
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 10
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encaps ipsec preference 600
tloc 10.4.4.4 color public-internet encaps ipsec preference 300

- C. **policy**
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action accept
set
vpn 512
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 600
tloc 10.4.4.4 color public-internet encap ipsec preference 300
- D. **policy**
data-policy _TE
vpn-list VPN_10
sequence 1
match
source-data-prefix-list Source_Prefix
destination-data-prefix-list Dest_Prefix
action reject
set
vpn 10
tloc-list Hub_TLOCs
default-action accept
!
tloc-list Hub_TLOCs
tloc 10.4.4.4 color mpls encap ipsec preference 300
tloc 10.4.4.4 color public-internet encap ipsec preference 600

Answer: B

Explanation:

Prefer route with highest TLOC preference.

<https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2019/pdf/5eU6DfQV/TECRST-2191.pdf>

QUESTION 8

Refer to the exhibit. The engineering must assign community tags to 3 of its 74 critical server networks as soon as possible as they are advertised to BGP peers. These server networks must not be advertised outside AS. Which configuration fulfills this requirement?

Address Family	  On  Off
Address Family	 ipv4-unicast
Maximum Number of Prefixes	
Route Policy In	  On  Off
Route Policy Out	  On  Off
Policy Name	 eBGP_Community_Policy

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

- B. **policy**
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 local-as
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
- C. **policy**
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-export
default-action accept
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24
- D. **policy**
route-policy eBGP_Community_Policy
sequence 1
match
address Community_Prefix
action accept
set
community 999:65000 no-advertise
default-action reject
lists
prefix-list Community_Prefix
ip-prefix 20.20.20.0/24
ip-prefix 21.21.21.0/24
ip-prefix 22.22.22.0/24

Answer: C
Explanation:

Local-AS and no-export will both accomplish limiting the advertisements to the local as but the default action reject will stop all advertisements for the other 71 servers.

- local-as : Routes in this community are not advertised outside the local AS.
- no-advertise : Attach the NO_ADVERTISE community to routes. Routes in this community are not advertised to other BGP peers.
- no-export : Attach the NO_EXPORT community to routes. Routes in this community are not advertised outside the local AS or outside a BGP confederation boundary. To configure multiple BGP communities in a single list, include multiple community options, specifying one community in each option.

QUESTION 9

What is the behavior of vBond orchestrator?

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

Answer: A

Explanation:

A permanent control connection is maintained between the vBond and vSmart controllers.
<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gs-book/system-overview.html>

QUESTION 10

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 field?

- 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 11

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

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

Answer: C

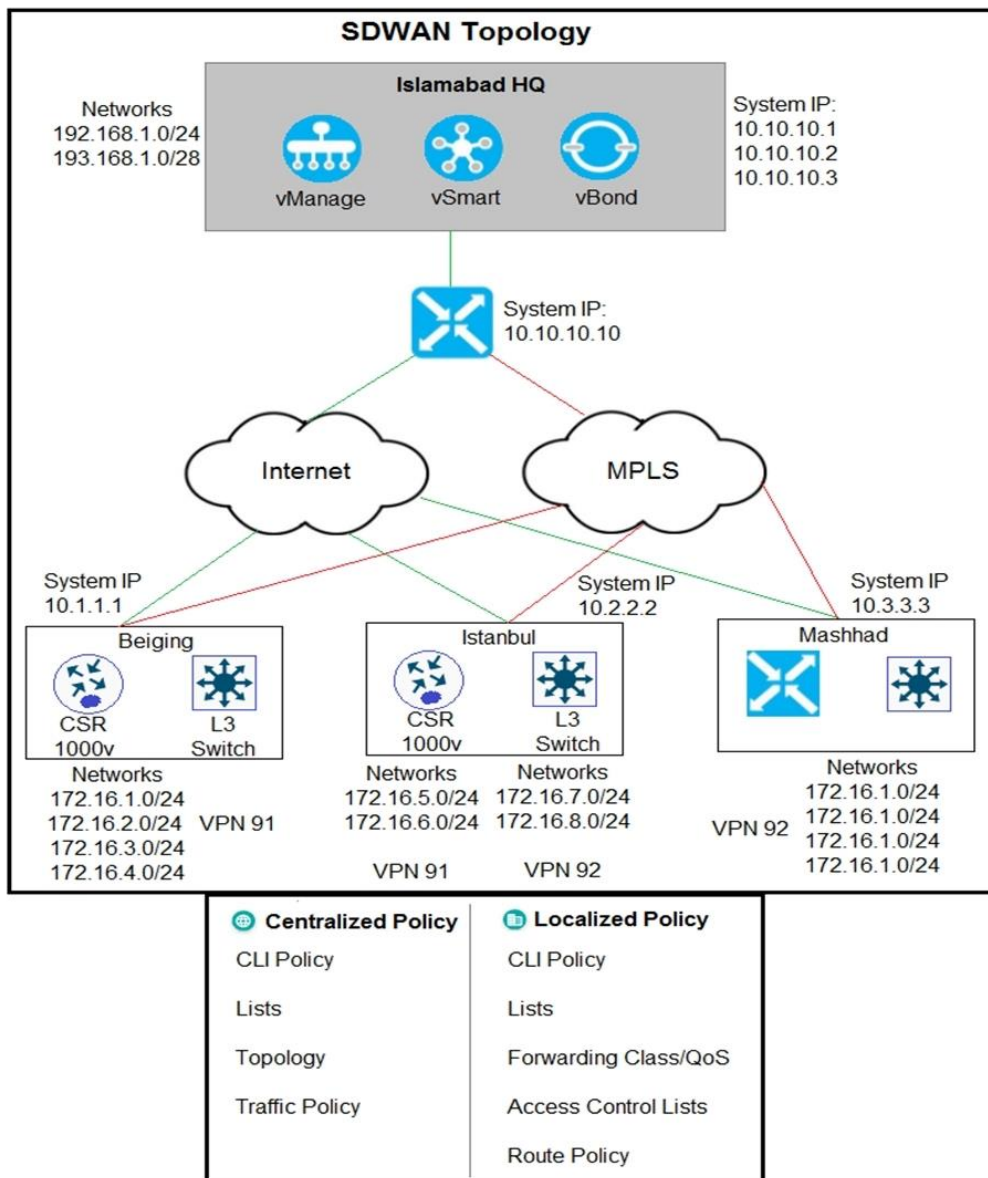
Explanation:

<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 in colocation facilities.

QUESTION 12

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. Centralized Policy, Traffic Policy

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

Answer: A

Explanation:

Utilizing SLA-Class list to affect traffic forwarding signifies a centralized data policy. When using vManage, Traffic Policy means data and Topology means control.

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/policies/ios-xe-17/policies-book-xe/centralized-policy.html#Cisco_Concept.dita_d31f22cb-f54f-41df-966a-0ae1ca3c398a

QUESTION 13

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

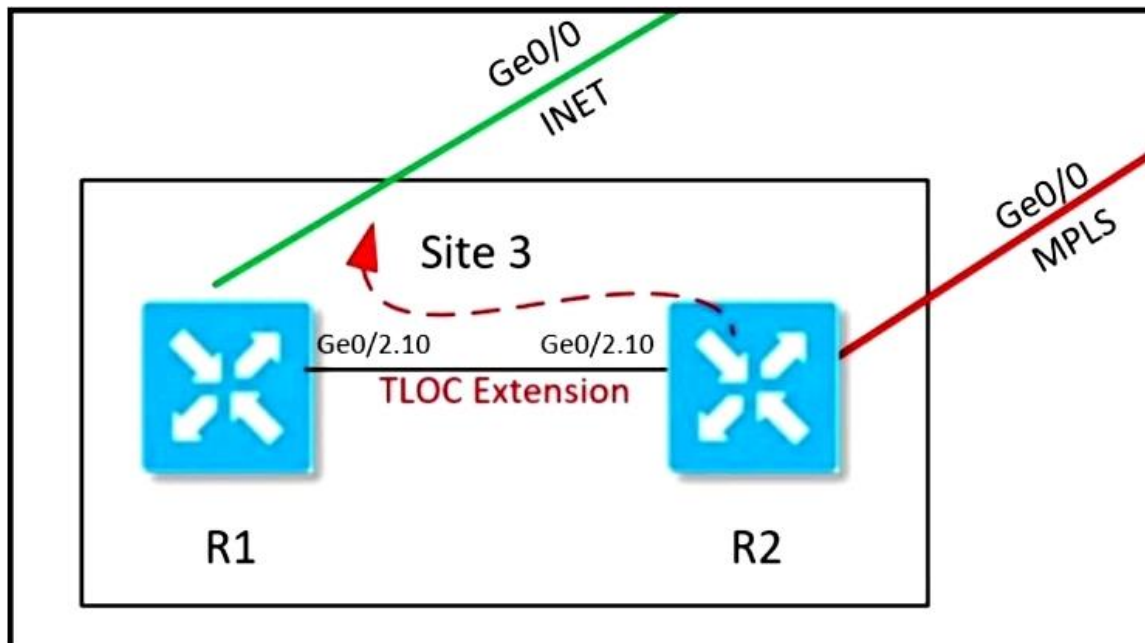
Explanation:

<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 14

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



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

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

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

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

C. R1
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43.2/30
tunnel-interface
color public-internet

R2
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43.1/30
tloc-extension ge0/0

D. R1
interface ge0/2
mtu 1504
no shutdown
interface ge0/2.10
ip address 43.43.43.2/30
tloc-extension ge0/0

R2
interface ge0/2
mtu 1504
no shutdown

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

Answer: D

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 15

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 16

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 17

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

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

- D. classification of 1000+ layer 4 applications
- E. application match parameters

Answer: AB

Explanation:

This application aware firewall feature provides the following benefits:

- Application visibility and granular control
- Classification of 1400+ layer 7 applications
- Allows or blocks traffic by application, category, application-family or application-group

QUESTION 18

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 19

An administrator must configure an ACL for traffic coming in from the service-side VPN on a specific WAN Edge device with circuit ID 392318933. 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:

By default, the data policy applies to all data traffic passing through the WAN edge router. To have the data policy apply only to the traffic coming from the service side, select the **From Service** option.

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

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