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 encap ipsec preference 300
 tloc 10.4.4.4 color public-internet encap ipsec preference 600
```

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

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 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 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 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 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?
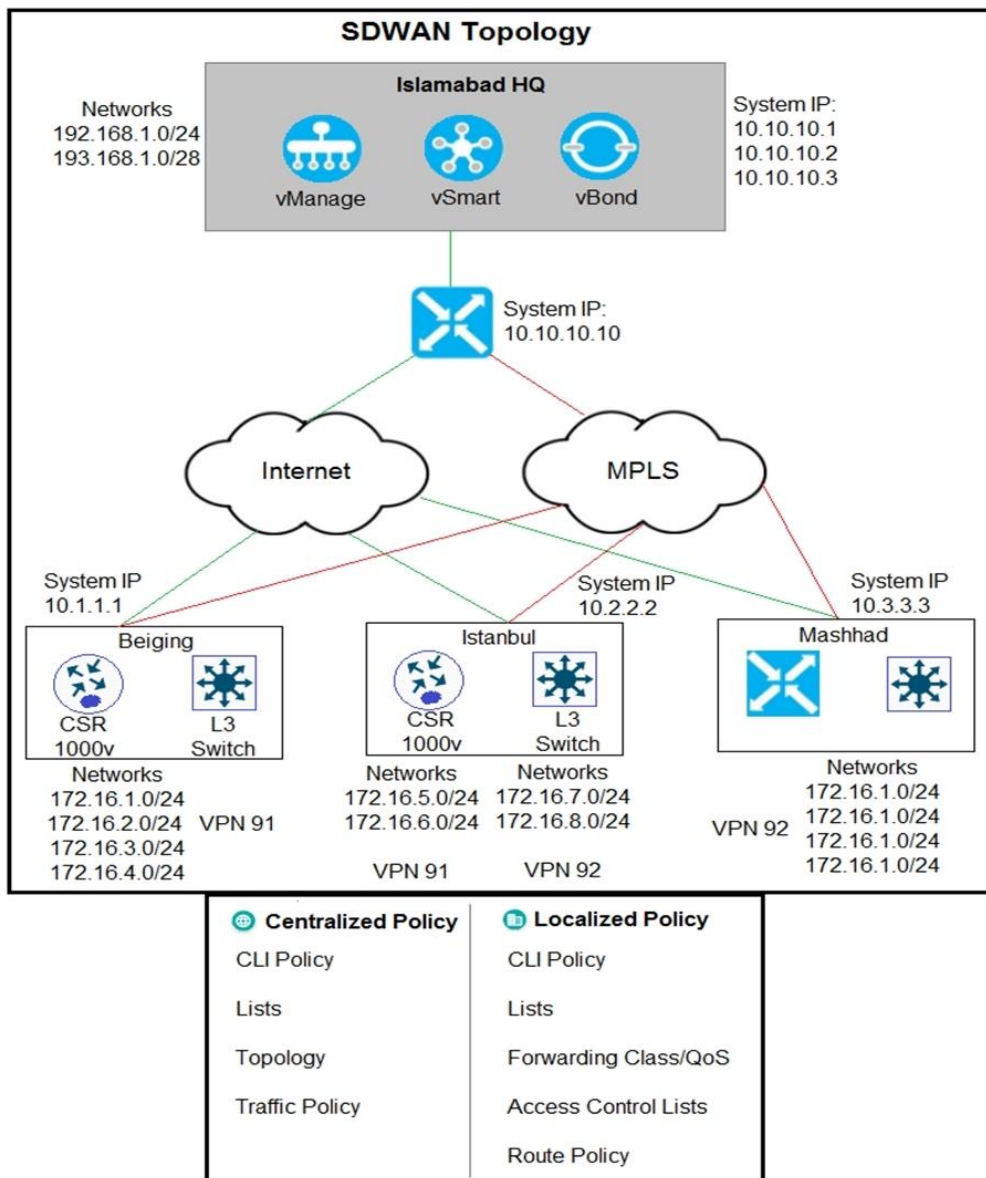
A.   Centralized Policy, Traffic Policy

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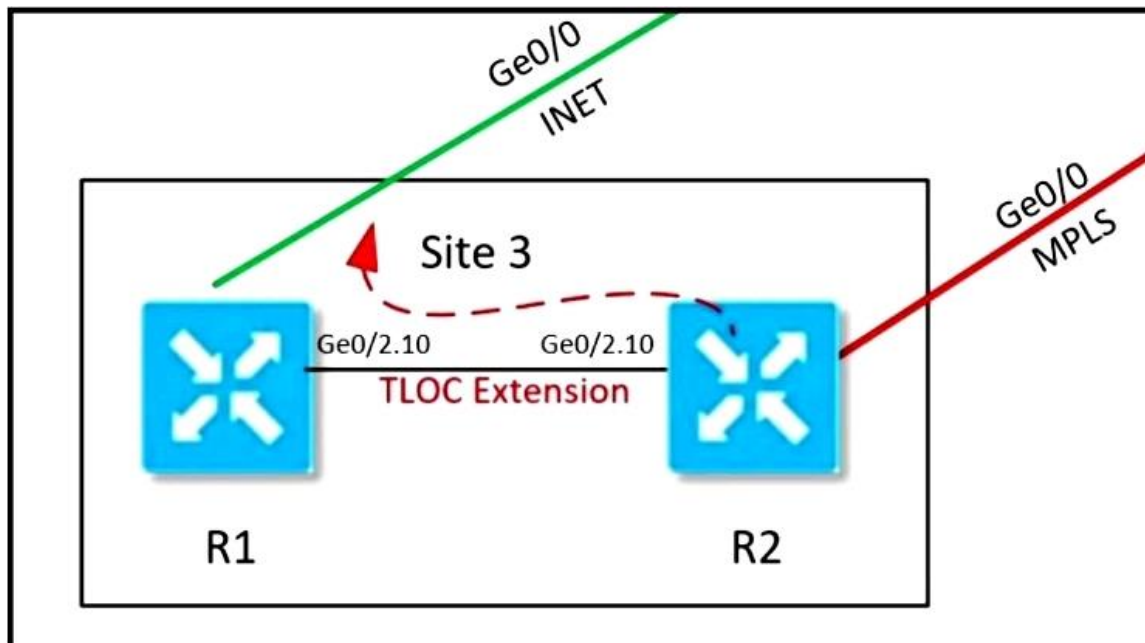
A. **R1**
   interface ge0/2
      no shutdown
   interface ge0/2.10
     ip address 43.43.43.2/30
     tloc-extension ge0/0

   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 o 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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