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300-415

Implementing Cisco SD-WAN Solutions



Sections

1. Architecture
2. Controller Deployment
3. Router Deployment
4. Policies
5. Security and Quality of Service
6. Management and Operations

Exam A

QUESTION 1

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. vSmart
- C. vManage
- D. vBond

Correct Answer: B

Section: Architecture

Explanation

Explanation/Reference:

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/routers/sdwan/migration-guide/cisco-sd-wan-migration-guide.pdf>

QUESTION 2 Which two hardware platforms support Cisco IOS XE SD-WAN images?
(Choose two.)

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

Correct Answer: AE

Section: Architecture

Explanation



Explanation/Reference:

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

QUESTION 3 What is a default protocol for control plane connection?

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

Correct Answer: D

Section: Architecture

Explanation

Explanation/Reference:

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

QUESTION 4

DRAG DROP

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

Select and Place:

Correct Answer:

Section: Architecture

Explanation

Explanation/Reference:

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

QUESTION 5

Which component of the Cisco SD-WAN control plane architecture should be located in a public Internet address space and facilitates NAT-traversal?

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

Correct Answer: C

Section: Architecture

Explanation

Explanation/Reference:

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

QUESTION 6

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

- A. ISR 1101
- B. ASR 1001
- C. CSR 1000v
- D. vEdge 2000



Correct Answer: A

Section: Architecture

Explanation

Explanation/Reference:

QUESTION 7

| Hostname | State | System IP | Reachability | Site ID | Device Model | BFD | Control |
|--|---|-----------|--------------|---------|--------------|-----|---------|
|  BR1-VEDGE1 |  | 10.3.0.1 | reachable | 300 | vEdge Cloud | 8 | 5 |

Refer to the exhibit. What does the BFD value of 8 represent?

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

Correct Answer: D

Section: Architecture

Explanation

Explanation/Reference:

QUESTION 8

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

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

Correct Answer: AC

Section: Controller Deployment

Explanation

Explanation/Reference:

QUESTION 9 Which two image formats are supported for controller codes?

(Choose two.)

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

Correct Answer: BD

Section: Controller Deployment

Explanation

Explanation/Reference:



QUESTION 10 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. ISR 4431
- C. vEdge 100c
- D. vEdge 2000
- E. vEdge Cloud

Correct Answer: AE

Section: Controller Deployment

Explanation

Explanation/Reference:

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

QUESTION 11 How is the scalability of the Manage increased in Cisco SD-WAN Fabric?

- A. Increase the bandwidth of the WAN link connected to the vManage
- B. Increase licensing on the vManage
- C. Deploy more than one vManage controllers on different physical server
- D. Deploy multiple vManage controllers in a cluster

Correct Answer: D

Section: Controller Deployment

Explanation

Explanation/Reference:

QUESTION 12 Which component of the Cisco SD-WAN control plane architecture facilitates the storage of certificates and configurations for network components?

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

Correct Answer: C

Section: Controller Deployment

Explanation

Explanation/Reference:

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

QUESTION 13 An engineer is troubleshooting a vEdge router and identifies a “**DCONFAIL – DTLS connection failure**” message. What is the problem?

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

Correct Answer: D

Section: Controller Deployment

Explanation



Explanation/Reference:

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

QUESTION 14 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**

Correct Answer: A

Section: Controller Deployment

Explanation

Explanation/Reference:

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

QUESTION 15

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

Refer to the exhibit. An engineer is troubleshooting a control connection issue. What does “connect” mean in this **show control connections** output?

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

Correct Answer: C

Section: Controller Deployment

Explanation

Explanation/Reference:

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

QUESTION 16

DRAG DROP

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

Select and Place:

Correct Answer:

Section: Router Deployment

Explanation

Explanation/Reference:

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

QUESTION 17 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. 5 seconds
- C. 1 second
- D. 3 seconds

Correct Answer: C

Section: Router Deployment

Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/vManage_Help/Release_18.3/Configuration/Templates/VPN_Interface_Ethernet

QUESTION 18 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
    max-metric

vpn vpn-id
router
  ospf
    area number
      nssa
      no-summary

vpn vpn-id
router
  ospf
    area number
      range prefix/length

vpn vpn-id
router
  ospf
    area number
      no-summary
```



B.

C.

D.

Correct Answer: A
Section: Router Deployment
Explanation

Explanation/Reference:

QUESTION 19 Which two services are critical for zero touch provisioning onboarding? (Choose two.)

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

Correct Answer: DE
Section: Router Deployment
Explanation

Explanation/Reference:

QUESTION 20

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. Set down-bit on Edge routers on DC1
- B. Define different VRFs on both DCs
- C. Set OMP admin distance lower than BGP admin distance
- D. Set same overlay AS on both DC WAN Edge routers



Correct Answer: BD
Section: Router Deployment
Explanation

Explanation/Reference:

QUESTION 21 Which device information is required 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

Correct Answer: A
Section: Router Deployment
Explanation

Explanation/Reference:

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

QUESTION 22

Which configuration step is taken on vManage after WAN Edge list is uploaded to support the on-boarding process before the device comes online?

- A. Verify the device certificate
- B. Enable the ZTP process

- C. Set the device as valid
- D. Send the list to controllers

Correct Answer: C
Section: Router Deployment
Explanation

Explanation/Reference:

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

QUESTION 23 On which device is a service FW address configured to insert firewall service at the hub?

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

Correct Answer: C
Section: Router Deployment
Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/07Policy_Applications/02Service_Chaining/Service_Chaining_Configuration_Examples

QUESTION 24 Which attributes are configured to uniquely identify and represent a TLOC route?

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



Correct Answer: A
Section: Router Deployment
Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.2/03Routing/01Unicast_Overlay_Routing_Overview#TLOC_Routes

QUESTION 25 Which type of route advertisement of OMP can be verified?

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

Correct Answer: D
Section: Router Deployment
Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.2/03Routing/01Unicast_Overlay_Routing_Overview#OMP_Route_Advertisements

QUESTION 26

Which command displays BFD session summary information per TLOC on vEdge routers?

- A. **show bfd tloc-summary-list**
- B. **show bfd history**
- C. **show bfd summary**
- D. **show bfd sessions**

Correct Answer: A

Section: Router Deployment

Explanation

Explanation/Reference:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/sdwan/command/sdwan-cr-book/sdwan-cr-book_chapter_0100.html#wp5111537210

QUESTION 27 Which configuration allows users to reach YouTube from a local

```
VPN 10
ip route 0.0.0.0/0 vpn 0
VPN 0
interface Gig1/1
nat
```

Internet breakout? A.

```
VPN 10
ip route 0.0.0.0/0 vpn 0

policy
data-policy DPI
vpn-list vpn10
sequence 10
match
app-list YouTube
destination-port 80 443
!
action accept
count Youtube
!
default-action accept
!
lists
vpn-list vpn10
vpn 10
!
app-list YouTube
app youtube
app youtube_hd
!
site-list Remote
site-id 14
site-id 15
!
!
!
apply-policy
site-list Remote
data-policy DPI from-transport

vpn 10
ip route 0.0.0.0/0 vpn 0
```

B. C.





```
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
D. ip route 0.0.0.0/0 vpn 0

Correct Answer: C

Section: Router Deployment

Explanation

Explanation/Reference:

QUESTION 28

Which feature template configures OMP?

| Section | Parameter | Type | Variable/value |
|---------------------|---------------------------------------|--------|----------------|
| Basic configuration | Number of paths advertised per prefix | Global | 16 |
| | Radio | Global | Off |
| | Static | Global | Off |

| Section | Parameter | Type | Variable/value |
|---------|---------------------|--------|----------------|
| Server | Hostname/IP Address | Global | 10.4.48.13 |
| | VPN ID | Global | 1 |
| | Source interface | Global | loopback0 |

| Section | Parameter | Type | Variable/value |
|----------------|----------------------|-----------------|-------------------|
| Authentication | Authentication Order | Drop-down | local |
| Local | User/admin/Password | Device Specific | user_admin_passwd |

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

A.

B. C.

D.

Correct Answer: A
Section: Router Deployment
Explanation

Explanation/Reference:

QUESTION 29

| #Branch1-Edge1 | #Branch1-Edge2 |
|--|---|
| vpn 0 ! interface ge0/1 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 | vpn 0 ... interface ge0/2 no shutdown ! interface ge0/2.704 ip address 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 |



Refer to the exhibit. Which configuration change is needed to configure the tloc-extension on Branch1-Edge1? A.

```
interface ge0/2.704
 ip address 10.113.4.1/30
 tunnel-interface
 encapsulation ipsec
 color mpls restrict
 no shutdown
```

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

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

```
interface ge0/2.704
 ip address 10.113.4.1/30
 tunnel-interface
 encapsulation ipsec
 color mpls restrict
 mtu 1496
 tloc-extension ge0/2
 no shutdown
```



B. C.

D.

Correct Answer: D

Section: Router Deployment

Explanation

Explanation/Reference:

QUESTION 30 Two sites have one WAN Edge each. Each WAN Edge has two public TLOCs with **no restrict** configured. There is full reachability between the TLOCs. How many data tunnels are formed on each Edge router?

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

Correct Answer: A
Section: Router Deployment
Explanation

Explanation/Reference:

QUESTION 31

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 peers**
- B. **show omp route**
- C. **show omp sessions**
- D. **show omp tlocs**

Correct Answer: D
Section: Router Deployment
Explanation

Explanation/Reference:

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

QUESTION 32 In which VPN is the NAT operation on an outgoing interface configured for direct Internet access?

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

Correct Answer: A
Section: Policies
Explanation

Explanation/Reference:

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

QUESTION 33

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. vSmart
- C. WAN Edge
- D. Firewall

Correct Answer: B
Section: Policies
Explanation

Explanation/Reference:

QUESTION 34

DRAG DROP

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



Select and Place:

Correct Answer:

Section: Policies
Explanation

Explanation/Reference:

QUESTION 35 Which command verifies a policy that has been pushed to the vEdge router?

- A. vSmart# **show running-config policy**
- B. vEdge# **show running-config data policy**
- C. vSmart# **show running-config apply policy**
- D. vEdge# **show policy from-vsmart**

Correct Answer: D

Section: Policies
Explanation

Explanation/Reference:

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

QUESTION 36

DRAG DROP

Drag and drop the actions from the left into the correct sequence on the right to create a data policy to direct traffic to the Internet exit.

Select and Place:

Correct Answer:

Section: Policies
Explanation

Explanation/Reference:

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

QUESTION 37 Which policy configures an application-aware routing policy under **Configuration > Policies**?

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

Correct Answer: A

Section: Policies
Explanation

Explanation/Reference:

QUESTION 38 When the VPN membership policy is being controlled at the vSmart controller, which policy disallows VPN 1 at

```
apply-policy
site-list 20-30
  vpn-membership disallow-vpn 1
  !
  !
policy
lists
  site-list 20-30
  site-id 20
  site-id 30
  !
  vpn-list VPN 1
  vpn 10
  vpn 20
  !
  !
  vpn-membership disallow-vpn 1
  sequence 10
  match
    vpn-list VPN 1
    !
    action reject
    !
    !
  default-action accept
```

sites 20 and 30? A.

```
policy
lists
  site-list 20-30
  site-id 20
  site-id 30
!
prefix-list drop-list
ip-prefix 10.200.1.0/24
!
!
control-policy drop-unwanted-routes
sequence 10
match route
  prefix-list drop-list
!
action reject
!
!
default-action accept
apply-policy
  site-list 20-30
  vpn-membership disallow-vpn1
!
!
policy
lists
  site-list 20-30
  site-id 20
  site-id 30
!
!
vpn-membership disallow-vpn1
sequence 10
match vpn-id 1
action reject
!
!
default-action accept
```



B. C.

```
policy
lists
  site-list BP-Sites
    site-id 10
    site-id 20
  vpn-list All-BPs
    vpn 100
    vpn 101
  vpn-list Enterprise-BP
    vpn 200
control-policy import-BPs-to-Enterprise
sequence 10
match route
  vpn-list All-BPs
  !
action accept
  export-to vpn-list Enterprise-BP
  !
  !
  !
D. default-action accept
```



Correct Answer: C

Section: Policies

Explanation

Explanation/Reference:

Reference: [https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_17.2/04Segmentation/03Segmentation_\(VPN\)_Configuration_Examples](https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_17.2/04Segmentation/03Segmentation_(VPN)_Configuration_Examples)

QUESTION 39

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

Correct Answer: A

Section: Policies

Explanation

Explanation/Reference:

QUESTION 40

DRAG DROP

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

Select and Place:

Correct Answer:

Section: Policies

Explanation

Explanation/Reference:

QUESTION 41 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

Correct Answer: C

Section: Policies

Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.4/Security/Enterprise_Firewall_with_Application_Awareness

QUESTION 42 Which scheduling method is configured by default for the eight queues in the cloud vEdge router?

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



Correct Answer: A

Section: Security and Quality of Service

Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/Release_18.1/06Policy_Basics/05Localized_Data_Policy/Configuring_Localized_Data_Policy_for_IPv4

QUESTION 43 At which layer does the application-aware firewall block applications on a WAN Edge?

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

Correct Answer: D

Section: Security and Quality of Service

Explanation

Explanation/Reference:

QUESTION 44 What is a benefit of the application-aware firewall?

- A. It blocks traffic by MTU of the packet

- B. It blocks encrypted traffic
- C. It blocks traffic by application
- D. It blocks traffic by MAC address

Correct Answer: C

Section: Security and Quality of Service

Explanation

Explanation/Reference:

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

45

```
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
```



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

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

Correct Answer: C

Section: Security and Quality of Service

Explanation

Explanation/Reference:

QUESTION 46

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

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

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

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

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

A.



B. C.

D.

Correct Answer: B
Section: Security and Quality of Service
Explanation

Explanation/Reference:

QUESTION 47 Which on-the-box security feature is supported by the Cisco ISR 4451 SD-WAN device and not on vEdge?

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

Correct Answer: C

Section: Security and Quality of Service

Explanation

Explanation/Reference:

QUESTION 48 Which two mechanisms are used to guarantee the integrity of data packets in the Cisco SD-WAN architecture data plane? (Choose two.)

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

Correct Answer: BD

Section: Security and Quality of Service

Explanation



Explanation/Reference:

QUESTION 49 Which value is verified in the certificates to confirm the identity of the physical WAN Edge device?

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

Correct Answer: A

Section: Security and Quality of Service

Explanation

Explanation/Reference:

QUESTION 50 Which hardware component is involved in the Cisco SD-WAN authentication process for ISR platforms?

- A. ZTP
- B. OTPCC. SUDI
- D. TPMD

Correct Answer: C

Section: Security and Quality of Service

Explanation

Explanation/Reference:

QUESTION 51 Which command disables the logging of syslog messages to the local disk?

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

Correct Answer: C

Section: Management and Operations

Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/02System_and_Interfaces/08Configuring_System_Logging

QUESTION 52

Which combination of platforms is managed by vManage?

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

Correct Answer: C

Section: Management and Operations

Explanation

Explanation/Reference:

QUESTION 53

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

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

Correct Answer: C

Section: Management and Operations

Explanation

Explanation/Reference:

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

QUESTION 54 Which pathway under **Monitor > Network > Select Device** is used to verify service insertion configuration?

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



Correct Answer: C

Section: Management and Operations

Explanation

Explanation/Reference:

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

QUESTION 55 Which API call retrieves a list of all devices in the network?

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

Correct Answer: A

Section: Management and Operations

Explanation

Explanation/Reference:

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs/vManage_REST_APIs_Overview/Using_the_vManage_REST_APIs **QUESTION 56**



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 |

| 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 |

| 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 |

| 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 |

B.

C.

D.

Correct Answer: B

Section: Management and Operations

Explanation

Explanation/Reference:



QUESTION 57 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 an ICMP connection
- B. To be downloaded over a SNMP connection
- C. To be downloaded over a control plane connection
- D. To be downloaded over an out-of-band connection
- E. To be downloaded over a SMTP connection

Correct Answer: CD

Section: Management and Operations

Explanation

Explanation/Reference:

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

QUESTION 58 Which logs verify when a device was upgraded?

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

Correct Answer: D

Section: Management and Operations
Explanation

Explanation/Reference:

QUESTION 59
DRAG DROP

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

Select and Place:

Correct Answer:

Section: Management and Operations
Explanation

Explanation/Reference:

QUESTION 60 Which protocol is used to measure loss, latency, jitter, and liveliness of the tunnel between WAN Edge router peers?

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

Correct Answer: C

Section: Management and Operations
Explanation

Explanation/Reference:

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

QUESTION 61 Which pathway under **Monitor > Network > Select Device** is used to verify service insertion configuration?

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

Correct Answer: C

Section: Management and Operations
Explanation

Explanation/Reference:

