

# 300-415<sup>Q&As</sup>

Implementing Cisco SD-WAN Solutions (ENSDWI)

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## QUESTION 1

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

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

Correct Answer: A

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## QUESTION 2

Which set of key security components of authentication, encryption, and integrity is used to establish an IPsec tunnel in the Cisco SD-WAN solution?

- A. Authentication is 1024-bit key; encryption is AES-128 cipher, and integrity is ESP, HMAC-MD5.
- B. Authentication is 1024-bit key; encryption is AES-256 cipher, and integrity is ESP, HMAC-MD5.
- C. Authentication is 2048-bit key; encryption is AES-256 cipher, and integrity is ESP, HMAC-SHA1.
- D. Authentication is 2048-bit key; encryption is AES-128 cipher, and integrity is ESP, HMAC-SHA1.

Correct Answer: C

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## QUESTION 3

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

Correct Answer: D

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## QUESTION 4

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

- A. \*.globalstreetmaps.org
- B. \*.fullstreetmaps.org
- C. \*.callstreetmaps.org
- D. \*.openstreetmaps.org

Correct Answer: D

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## QUESTION 5

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

1.

Hardware platforms Cisco vEdge (formerly Viptela vEdge) Routers running Viptela OS Integrated Services Router (ISR) 1000 and 4000 Series running IOS® XE SDWAN Software Aggregation Services Router (ASR) 1000 Series running IOS XE SD-WAN Software

2.

Virtual platforms Cloud Services Router (CSR) 1000v running IOS XE SD-WAN Software vEdge Cloud Router running Viptela OS

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 6

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.

Correct Answer: D

In an Azure cloud deployment of a WAN Edge device (like a Cisco CSR), you typically need at least two subnets within your Azure Virtual Network (VNet): one for public-facing traffic (public subnet) and another for internal services (services subnet). The Microsoft Azure cloud fabric handles the underlying management functions, so you don't need a separate management subnet. This configuration allows you to separate public-facing traffic from internal services and manage the WAN Edge device effectively.

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#### QUESTION 7

An engineer is configuring a shaping rate of 1 Mbps on the WAN link of a WAN Edge router. Which configuration accomplishes this task?

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

A.

B.

```
interface interface-name
vpn vpn-id
shaping-rate 1000000
```

C.

```
vpn vpn-id
interface interface-name
shaping-rate 1000000
```

D.

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

B. C. D.

Correct Answer: D

vEdge1(config)#

vEdge1(config)# vpn 1

vEdge1(config-vpn-1)# int ge0/3

vEdge1(config-interface-ge0/3)# shaping-rate ?

Description: Shaping rate, in kbps

Possible completions:

vEdge1(config-interface-ge0/3)# shaping-rate

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

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## QUESTION 8

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

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

Correct Answer: B

OMP graceful restart is enabled by default on Cisco vSmart Controllers and Cisco SD-WAN devices. OMP graceful restart has a timer that tells the OMP peer how long to retain the cached advertised routes. When this timer expires, the cached routes are considered to be no longer valid, and the OMP peer flushes them from its route table.

The default timer is 43,200 seconds (12 hours), and the timer range is 1 through 604,800 seconds (7 days). To modify the default timer value:

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## QUESTION 9

Which two resource data types are used to collect information for monitoring using REST API in Cisco SD-WAN? (Choose two.)

- A. POST
- B. PUT
- C. scalar
- D. array

## E. DELETE

Correct Answer: CD

Scalar data types represent individual data values, while array data types represent collections of data values. These data types are commonly used in REST APIs to retrieve and manage information in the context of monitoring and managing network resources. Options A, B, and E (POST, PUT, DELETE) are HTTP methods, not resource data types.

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## QUESTION 10

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

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

Correct Answer: C

Centralized control policy applies to the network-wide routing of traffic by affecting the information that is stored in the vSmart controller's route table and that is advertised to the vEdge routers. The effects of centralized control policy are seen in how vEdge routers direct the overlay network's data traffic to its destination. The centralized control policy configuration itself remains on the vSmart controller and is never pushed to local routers.

Centralized data policy applies to the flow of data traffic throughout the VPNs in the overlay network. These policies can permit and restrict access based either on a 6-tuple match (source and destination IP addresses and ports, DSCP fields, and protocol) or on VPN membership. These policies are pushed to the affected vEdge routers.

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## QUESTION 11

What is a default protocol for control plane connection?

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

Correct Answer: D

Reference: [https://sdwan-docs.cisco.com/Product\\_Documentation/Software\\_Features/SD-WAN\\_Release\\_16.3/05Security/02Configuring\\_Security\\_Parameters](https://sdwan-docs.cisco.com/Product_Documentation/Software_Features/SD-WAN_Release_16.3/05Security/02Configuring_Security_Parameters)

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## QUESTION 12

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

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

Correct Answer: BD

## QUESTION 13

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 files are needed for this upgrade?

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

Correct Answer: D

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

## QUESTION 14

DRAG DROP

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.

Select and Place:

### Answer Area

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

Correct Answer:

## Answer Area

	Router contacts a DHCP server.
	Router contacts a DNS service.
	Router connects to the ZTP server.
	Router establishes a connection to vBond.

## QUESTION 15

Which issue triggers the Cisco Umbrella resolver to forward 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.

Correct Answer: D

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