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1. SNMP traps are utilized for which of the following purposes?

- A. Encrypting data packets
- B. Monitoring network performance in real-time
- C. Sending unsolicited alerts from network devices to a management station
- D. Virtualizing network functions

**Answer: C**

2. A common DoS mitigation technique is:

- A. Increasing bandwidth
- B. Using a single firewall
- C. Rate limiting
- D. Removing all filters

**Answer: C**

3. Secure NFVI control and management plane involves:

- A. Removing all passwords
- B. Public internet access
- C. Authentication and encryption
- D. Unrestricted API access

**Answer: C**

4. MACSEC provides security through:

- A. Authentication
- B. Encryption
- C. Policy enforcement
- D. Traffic specification

**Answer: B**

5. Network segmentation is critical in a cloud environment for:

- A. Simplifying network topology
- B. Enhancing performance by reducing security
- C. Enabling unrestricted access between zones
- D. Limiting the spread of breaches and attacks

**Answer: D**

6. Multi-homing is beneficial for:

- A. Creating a single point of failure
- B. Increasing dependency on a single ISP
- C. Enhancing redundancy and resilience
- D. Simplifying network architecture

**Answer: C**

7. Connectivity options to other carrier-neutral facilities enhance:

- A. Vendor lock-in

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## Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q46-Q51):

### NEW QUESTION # 46

Refer to the exhibit. An engineer must configure an IPsec VPN connection between site 1 and site 2. The indicated configuration was applied to router R1; however, the tunnel fails to come up. Which command must be run on R1 to resolve the issue?

- A. set peer 10.1.0.1
- B. set peer 10.2.0.1
- C. set peer 192.168.10.1
- D. set peer 192.168.20.2

**Answer: D**

Explanation:

For a site-to-site IPsec VPN, each peer must point to the reachable IP address of the remote VPN endpoint - that is, the IP address on the WAN/Internet-facing interface of the remote router.

From the diagram:

\* R1 outside (toward Internet): 192.168.10.1

\* R2 outside (toward Internet): 192.168.20.2

\* Inside LANs:

\* Site 1: 10.1.0.0/24

\* Site 2: 10.2.0.0/24

The crypto map on R1 uses:

```
crypto map mymap 10 ipsec-isakmp
```

```
set transform-set myset
```

```
match address 101
```

```
set peer <REMOTE_PEER_IP>
```

The <REMOTE\_PEER\_IP> must be the IP address where R1 can actually reach the IPsec peer, which is R2's Internet-facing interface 192.168.20.2.

If the peer were configured with a LAN IP such as 10.2.0.1 (site 2's internal gateway), IKE packets would never reach the remote router because that address is not routable over the Internet.

Therefore, the correct command to bring up the VPN is:

```
set peer 192.168.20.2
```

\* Option A (10.1.0.1)- local LAN IP (R1's side), not the remote endpoint.

\* Option C (192.168.10.1)- R1's own WAN IP, not the remote peer.

\* Option D (10.2.0.1)- remote LAN IP, not reachable directly over the Internet.

### NEW QUESTION # 47

Refer to the exhibit. The indicated configuration was applied to a Cisco switch Switch\_A located in the Los Angeles DC data center; however, Switch\_A fails to establish OTV connectivity to Cisco switch Switch\_C.

Which overlay interface command must be run on Switch\_A to resolve the issue?

- A. otv extend-vlan 101-111
- B. otv isis authentication-type md5
- C. otv join-interface vlan 101-111
- D. otv isis authentication-check

**Answer: A**

Explanation:

Overlay Transport Virtualization (OTV) allows Layer 2 extension across Layer 3 infrastructures. To operate, OTV requires three fundamental components on the overlay interface:

Join interface - used to reach the OTV control plane over L3 (already configured: otv join-interface g1/0).

Control-group multicast address - for control-plane advertisement (already configured: otv control-group 224.1.1.1).

Extended VLAN list - specifies which VLANs will be transported through the OTV overlay.

The configuration shown in the exhibit includes the join-interface, control-group, and data-group, but it does NOT specify which VLANs should be extended. Without the otv extend-vlan command, OTV will form the overlay interface but will not forward any Layer 2 information, preventing adjacency and MAC distribution between sites.

In OTV, the command required to activate VLANs for transport is:

otv extend-vlan <vlan-range>

This enables the VLANs (such as 101-111) to be carried across the OTV overlay, completing the configuration and establishing connectivity.

Why the Other Options Are Incorrect

B). otv isis authentication-type md5

This is optional and only required if ISIS authentication is enabled on both edges. It does not resolve the absence of VLAN extension.

C). otv isis authentication-check

This command enforces authentication verification but does not fix connectivity when VLANs are not extended.

D). otv join-interface vlan 101-111

This is not a valid OTV command. The join-interface must be a routed interface, not a VLAN list.

### NEW QUESTION # 48

What does Cisco Always-On Cloud DDoS use to protect against DDoS attacks?

- A. Traffic mirroring
- B. Load balancing
- C. Botnet zombies
- D. Scrubbing centers

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Cisco SP Security Knowledge Cisco Always-On Cloud DDoS Protection is a cloud-based, carrier-grade security service used by service providers to protect customers from volumetric and application-layer DDoS attacks.

Its core protection mechanism is the use of global scrubbing centers, which:

- \* Receive diverted attack traffic
  - \* Scrub (clean) malicious packets
  - \* Forward clean traffic back to the customer
  - \* Use behavioral analysis and real-time detection
  - \* Protect against volumetric, TCP state-exhaustion, and application-layer attacks
- Why other answers are incorrect:
- \* Load balancing (A) does not mitigate DDoS attacks; it distributes traffic across servers.
  - \* Botnet zombies (B) are sources of DDoS attacks, not protection.
  - \* Traffic mirroring (C) is used for analysis and monitoring, not active DDoS protection.

### NEW QUESTION # 49

Which two network segments are needed to support Cisco VIM? (Choose two.)

- A. Host
- B. Heartbeat
- C. Provisioning
- D. Storage
- E. Data plane

**Answer: C,D**

Explanation:

Comprehensive and Detailed Explanation From Cisco NFVI + VIM Architecture Cisco VIM (Virtual Infrastructure Manager) operates as part of Cisco NFVI and requires specific mandatory network segments to deploy OpenStack-based NFVI environments.

The essential required networks for Cisco VIM include:

#Provisioning network

- \* Used during bare-metal install of compute and controller nodes
- \* Handles PXE boot, image deployment, and VIM's management reachability

#Storage network

- \* Used for Cinder, Swift, Ceph, and Glance back-end storage replication
- \* Ensures predictable latency and bandwidth for NFVI workloads

Other networks exist in VIM (Management, API, Tenant, External), but the question asks for the required foundational segments.

Why the other options are incorrect:

- \* Data plane(B) - used inside NFV workloads but not a required VIM infrastructure network.
- \* Heartbeat(C) - not a defined VIM network segment.
- \* Host network(D) - not a Cisco VIM terminology; provisioning network handles host onboarding.

### NEW QUESTION # 50

Cloud infrastructure monitoring can be automated through the use of:

- A. Physical network adjustments
- B. Manual system checks
- C. Decreasing telemetry data
- D. Cloud agents

**Answer: D**

### NEW QUESTION # 51

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