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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q140-Q145):

NEW QUESTION # 140

RTBH is effective in mitigating what kind of traffic?

- A. Malicious traffic
- B. Outgoing traffic
- C. Legitimate traffic
- D. Incoming legitimate requests

Answer: A

NEW QUESTION # 141

Refer to the exhibit. An engineer needs to configure ToR switches for a Cisco NFVI C-series pod. This configuration was performed on the ToR-A switch already:

```
feature vpc
feature lacp
interface Ethernet1/1-2
channel-group 110 mode active
interface port-channel1 10
```

Which command must be run on ToR-A to complete the port-channel configuration?

- A. vpc peer-link
- B. channel-group 110 mode on
- C. switchport mode access
- D. peer-keepalive destination 10.10.10.2

Answer: D

Explanation:

In a Cisco NFVI C-Series Pod, the Top-of-Rack (ToR) switches are almost always configured as a vPC pair.

A vPC domain requires three mandatory components:

- * vPC domain ID
- * vPC peer-link
- * vPC peer-keepalive link#ensures dual-active detection

In the exhibit:

- * The management interfaces are Tor-A Mgmt0: 10.10.10.1 and Tor-B Mgmt0: 10.10.10.2
- * These IPs are used commonly as the peer-keepalive endpoints
- * The physical uplinks to NFVI nodes form Port-Channel 10

Since the configuration snippet already includes:

- * feature vpc
- * feature lacp
- * channel-group 110 mode active

The next required step in a Cisco NFVI + vPC configuration is to configure the peer-keepalive from ToR-A toward ToR-B:

```
vpc domain 1
peer-keepalive destination 10.10.10.2
```

This ensures:

- * vPC roles sync
- * Dual-active prevention
- * Stable operation for the NFVI C-Series rack

Why the Other Options Are Incorrect

- * A. vpc peer-link This is required but must be configured on the dedicated peer-link interfaces, not on the server-facing port-channel.
- * C. channel-group 110 mode on The correct mode is already configured: mode active for LACP. mode on disables LACP.
- * D. switchport mode access NFVI ToR links use trunking, not access mode, because servers carry multiple networks (control, compute, storage, management VLANs).

NEW QUESTION # 142

What should be used to protect against lateral movements during a Cisco NFVI security breach?

- A. Wi-Fi Protected Access
- B. Web application firewall

- C. Data encryption
- **D. Network segmentation**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

In Cisco NFVI security architecture, the primary defense against lateral movement (an attacker moving from one compromised node to another) is network segmentation.

Segmentation:

- * Separates workloads (compute, storage, management, tenant networks)
- * Prevents attackers from pivoting inside the NFVI
- * Reduces blast radius during breaches
- * Enforces micro-segmented virtual network boundaries

WPA protects Wi-Fi, not NFVI.

WAF protects web apps, not internal movement.

Data encryption protects confidentiality, not lateral movement control.

Thus, network segmentation is the correct solution.

NEW QUESTION # 143

Refer to the exhibit. An engineer must configure iBGP multipath load sharing across three paths. Which two commands must be run on router R2? (Choose two.)

- A. ip load-sharing ibgp 3
- B. ip load-sharing per-destination
- **C. maximum-paths ibgp 3**
- D. router bgp 101
- **E. router bgp 100**

Answer: C,E

Explanation:

Router R2 is inside AS 100 and has three iBGP paths (via R3, R4, R5) toward AS 101. To perform iBGP multipath across these three equal-cost paths, BGP must:

- * Run the correct BGP process for AS 100
- * Allow installation of multiple iBGP paths in the routing table

This is done with:

router bgp 100

maximum-paths ibgp 3

- * router bgp 100- enters the BGP process for AS 100 (correct AS per diagram).
- * maximum-paths ibgp 3- tells BGP to keep up to 3 iBGP paths to the same destination, enabling CEF to load-share across them.

Other options:

- * ip load-sharing ibgp 3- not a valid command.
- * router bgp 101- wrong AS number.
- * ip load-sharing per-destination- controls CEF hashing but does not enable BGP to install multiple iBGP paths by itself.

NEW QUESTION # 144

Refer to the exhibit. An engineer is troubleshooting an issue with switch LEAF-SW-11. The engineer observes that several main servers on the VXLAN BGP EVPN Multi-Site network experience 50-60% packet loss inbound and outbound, and all the DCI tracking interfaces are down. Which two actions must be taken to resolve the issue? (Choose two.)

- **A. On LEAF-SW-11, enable the multisite ingress-replication command for the L2VNI of VLAN 11.**
- B. On the Nexus switch, run the inner ipv4 dst_ip 172.16.2.200 command against module-1.
- C. On the Nexus switch, run the ip access-list permit ip address 172.16.2.200 command.
- D. On LEAF-SW-11, run the inner ipv4 src_ip 172.16.2.200 command against module-1.
- **E. On LEAF-SW-11, run the evpn multisite dci-tracking command against interface Eth1/1.**

Answer: A,E

Explanation:

In a VXLAN BGP EVPN Multi-Site environment:

* DCI tracking monitors the health of the DCI links. If all DCI-tracking interfaces go down, the leaf can incorrectly keep advertising or learning remote MAC/IP reachability, leading to packet loss and sub-optimal forwarding for servers in that VLAN/L2VNI.

* For proper operation, each DCI-facing interface must be enabled with evpn multisite dci-tracking so that the Multi-Site border leaf tracks reachability over that link.

* When using EVPN Multi-Site, BUM (broadcast, unknown unicast, multicast) traffic toward remote sites is typically handled via ingress replication, not multicast groups, for each L2VNI participating in Multi-Site. The configuration snippet shows an L2VNI (vn-segment 16535) still mapped to mcast-group 239.1.1.0, which is inconsistent with Multi-Site recommendations and contributes to packet loss.

Therefore, to fix the problem:

* Enable DCI tracking on the uplink:

* interface Ethernet1/1

* evpn multisite dci-tracking

This restores proper DCI-link state monitoring for Multi-Site. #Option C

* Change the L2VNI behavior from multicast to Multi-Site ingress replication:

Under the VNI for VLAN 11, configure:

evpn

vni 16535 l2

multisite ingress-replication

or the equivalent command for the specific NX-OS release, thereby aligning the L2VNI with EVPN Multi-Site design and eliminating packet loss. #Option D Options A and B are ELAM (embedded logic analyzer) filters used only for packet capture and do not resolve the forwarding issue.

Option E is an ACL line unrelated to EVPN VXLAN or DCI tracking and does not address the underlying problem.

NEW QUESTION # 145

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