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Exam : 300-540

**Title : Designing and Implementing
Cisco Service Provider
Cloud Network
Infrastructure**

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q161-Q166):

NEW QUESTION # 161

What role does NFVI MANO play in service assurance?

- A. Decreasing automation in network deployment
- B. Managing physical network infrastructures only
- **C. Orchestrating resources and network services**
- D. Reducing data storage capabilities

Answer: C

NEW QUESTION # 162

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

Answer: B,C

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 # 163

Which of the following best describes the relationship between OpenStack and NFV?

- A. OpenStack provides the physical infrastructure for NFV.
- B. OpenStack and NFV cannot be used together.
- **C. NFV can be deployed on top of OpenStack to virtualize network functions.**
- D. NFV is a component of OpenStack.

Answer: C

NEW QUESTION # 164

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 LEAF-SW-11, run the inner ipv4 src_ip 172.16.2.200 command against module-1.
- C. On LEAF-SW-11, run the evpn multisite dci-tracking command against interface Eth1/1.
- D. On the Nexus switch, run the inner ipv4 dst_ip 172.16.2.200 command against module-1.
- E. On the Nexus switch, run the ip access-list permit ip address 172.16.2.200 command.

Answer: A,C

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 # 165

Refer to the exhibit. An engineer must configure multihoming between router R1 and service providers SP-1 and SP-2. Locally generated routes must be advertised to the service providers, and should prevent the risk that the local autonomous system becomes a transit AS for Internet traffic. Which two commands must be run on R1 to complete the configuration? (Choose two.)

- A. neighbor 172.16.1.1 filter-list 200
- B. neighbor 172.16.1.1 filter-list 300 out
- C. neighbor 172.16.2.1 filter-list 1 out
- D. neighbor 172.16.1.1 filter-list 1 out
- E. neighbor 172.16.2.1 filter-list 400 out

Answer: C,D

Explanation:

R1 (AS 200) is multihomed to:

* SP-1 in AS 300 via neighbor 172.16.1.1

* SP-2 in AS 400 via neighbor 172.16.2.1

R1 must:

* Advertise only locally originated prefixes (its own network 10.10.0.0/24).

* NOT become a transit AS-i.e., R1 must not advertise routes learned from one provider to the other.

The configuration includes AS-path access-lists:
ip as-path access-list 1 permit

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