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## **Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q184-Q189):**

#### NEW QUESTION # 184

NFVI errors and events diagnosis is crucial for:

- A. Reducing the efficiency of the network
- B. Ensuring high network availability and reliability
- C. Manual network configurations
- D. Increasing network costs

**Answer: B**

#### NEW QUESTION # 185

An engineer must design a high-availability solution that provides path redundancy for IP by allowing redundant gateways to share MAC protocols and addresses. A group of Layer 3 routers must be allowed to share the default gateway on a LAN, load balance, and seamlessly take over the traffic transfer role if a router in the group fails. What must be used?

- A. GLBP
- B. BFD
- C. Routed network core
- D. Load balancer

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation

In Cisco high-availability LAN gateway designs, the requirement is:

- \* Multiple L3 gateways sharing a virtual MAC and virtual IP
- \* Ability to load balance across multiple active gateways
- \* Capability to seamlessly take over gateway forwarding during a failure

Among Cisco First Hop Redundancy Protocols (FHRPs):

- \* HSRP# Active/standby only
- \* VRRP# Active/standby only
- \* GLBP (Gateway Load Balancing Protocol) #The only FHRP providing active/active load balancing GLBP allows multiple routers to share:
  - \* A common virtual IP
  - \* Multiple virtual MAC addresses
  - \* Multiple active forwarders that load-balance end hosts
  - \* Automatic failover if any gateway fails

Thus, GLBP is the only correct protocol matching the requirement for redundant default gateways with load balancing and shared MAC addressing.

#### NEW QUESTION # 186

Which protocol is used for device authentication, authorization, and accounting?

- A. MACSEC
- B. ACL
- C. uRPF
- D. TACACS

**Answer: D**

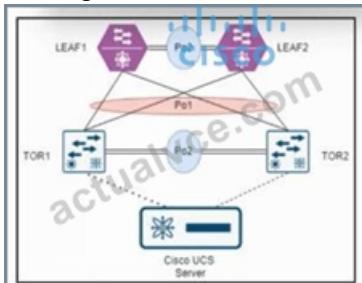
#### NEW QUESTION # 187

What are the key advantages of using cloud agents for network monitoring? (Select two)

- A. Reducing physical infrastructure costs
- B. Providing detailed and contextual insights into cloud infrastructure performance
- C. Enhancing scalability of monitoring solutions
- D. Decreasing network security

**Answer: B,C**

**NEW QUESTION # 188**



Refer to the exhibit. An engineer must connect switch TOR1 and switch TOR2 to switch LEAF1 and switch LEAF2 by using double-sided vPCs. LEAF1 and LEAF2 are already configured as vPC peers. Which action must be taken next to complete the configuration?

- A. Add all the switches to the fabric.
- **B. Configure a vPC between TOR1 and TOR2.**
- C. Configure MSTP between TOR1 and TOR2.
- D. Configure peering between LEAF1 and LEAF2 and TOR1 and TOR2.

**Answer: B**

Explanation:

In Cisco data center and cloud-scale designs, a double-sided vPC (also called vPC-to-vPC) is used when both ends of a Layer 2 port channel are formed by a pair of switches that operate as vPC peers. In this model:

- \* On the aggregation or leaf side, two switches (in this case, LEAF1 and LEAF2) form a vPC domain with a vPC peer-link and keepalive.
- \* On the access or ToR side, two switches (in this case, TOR1 and TOR2) must also form their own vPC domain with a peer-link and vPC keepalive.
- \* The port-channel that interconnects the two vPC domains is then configured as a vPC on both sides, creating a vPC-to-vPC topology.

The problem statement specifies that LEAF1 and LEAF2 are already configured as vPC peers. For a double-sided vPC to work, the other side (TOR1 and TOR2) must also behave as a single logical entity for the downstream Cisco UCS server and for the upstream vPC connection towards LEAF1 and LEAF2. This is only achieved when TOR1 and TOR2 are configured as vPC peers with:

- \* A vPC domain ID
- \* A vPC peer-link between TOR1 and TOR2
- \* vPC member port-channels towards LEAF1 and LEAF2 and towards the Cisco UCS server. Therefore, the next required step is to configure a vPC between TOR1 and TOR2.

Evaluation of the options:

- \* Option A, "Add all the switches to the fabric," is generic and not specific to vPC configuration. It does not address the technical requirement to form a vPC domain on the ToR side.
- \* Option B, "Configure peering between LEAF1 and LEAF2 and TOR1 and TOR2," is incorrect because vPC peering is only configured between the two switches that form each vPC domain (LEAF1-LEAF2 and TOR1-TOR2), not across all four switches together.
- \* Option C, "Configure MSTP between TOR1 and TOR2," is not required for establishing a double-sided vPC. vPC designs rely on the vPC control plane and the peer-link, not on spanning-tree between the vPC peers for normal operation.
- \* Option D, "Configure a vPC between TOR1 and TOR2," correctly describes configuring TOR1 and TOR2 as a vPC pair (vPC domain with peer-link), which is the mandatory step to create a double-sided vPC topology with LEAF1 and LEAF2.

**NEW QUESTION # 189**

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