600-511 Q&As

Designing with Cisco Network Programmability for ACI

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QUESTION 1

Which two options are benefits of the ACI fabric beyond forwarding traffic from physical and virtual servers? (Choose two.)

A. zero-touch provisioning of fabric switches

B. centralized control plane

C. decoupling of underlay and overlay

D. applying policy independently of forwarding

E. increased performance due to full-mesh topology

Correct Answer: AD

QUESTION 2

Which three statements about the group policy model within ACI are true? (Choose three.)

A. It is an abstracted view of application requirements.

B. Policy is portable.

C. Policy is based on the IP addresses of application services.

D. Policy is extensible.

E. Policy maintains flow information.

F. Policy is enforced from the Cisco APIC.

G. Policy follows the blacklist model.

Correct Answer: ABD

QUESTION 3

If flowlet switching and dynamic flow prioritization are enabled, which two statements about ACI fabric load balancing are true? (Choose two.)

A. A flowlet is a subset of a TCP/UDP flow that is composed of packets that are part of the same bursts of packets.

B. A flowlet is a subset of a TCP/UDP flow that is composed of packets of approximately the same size (64 bytes to 127 is flowlet 1, 128 to 255 is flowlet 2, ...).

C. The first few identified flowlets of a TCP/UDP flow are treated with a higher priority than the last flowlet of the same TCP/UDP flow.

D. Each flowlet of a TCP/UDP flow is treated with same priority and takes the same path to avoid out-oforder packets.

E. The egress leaf reorders out-of-order packets when flowlet switching is used.

Correct Answer: AC

QUESTION 4

Which four options are important functions offered by the Cisco APIC? (Choose four.)

A. fault and event management

B. hypervisor, storage, and computing management

C. Layer 3 through 5 services integration

D. statistical collection and analysis

E. performance management

F. nonblocking data plane

G. 1.5:1 oversubscribed ports

H. BGP and OSPF routing protocol support

Correct Answer: ABDE

QUESTION 5

When designing an ACI fabric for a VMWare environment, which two options are supported vSwitch options? (Choose two.)

A. external switch

B. AVS

C. standard vswitch

D. DVS

E. ESXi

Correct Answer: BD

QUESTION 6

Before you design an ACI fabric, it is important to understand existing application interactions. If you do not understand them entirely, which approach can you use?

A. Design a classic routing configuration in which everybody can talk to anybody as the equivalent to a contract called "anyany" that all EPGs provide and consume.

B. Design around the Cisco ACI whitelist model using the common tenant, where, by default, two EPGs can communicate to each other in the absence of a contract.

C. Map each EPG to familiar constructs such as VLANs that provide segmentation and will apply policy application interactions.

D. Leverage advanced orchestration tools like Cisco Intelligent Automation for Cloud or Cisco UCS Director to document existing application interactions.

Correct Answer: A

QUESTION 7

You want to satisfy the business, risk, and customer requirements. Which option is a consideration when you select and design an ACI fabric?

A. the requirement for meaningful services (such as traffic load balancing, segmentation, filtering, traffic insertion, and monitoring) for workloads provided by virtual Layer 4 to Layer 7 servers

B. virtual machine mobility because moving from one server to another one would have to occur on the same leaf so that ACI can preserve virtual machine visibility and policy enforcement

C. the breakdown of virtual versus physical workloads because virtual workloads are treated preferentially in ACI

D. the requirement for a central point of management, but no centralized control plane

Correct Answer: D

QUESTION 8

Which overlay protocol does Cisco AVS for vSphere use to allow the ACI fabric to extend over an existing network infrastructure?

A. GRE

B. IPsec

C. NVGRE

D. VXLAN

E. OTV

Correct Answer: D

QUESTION 9

Which four subcomponents can contracts be broken into? (Choose four.)

A. subjects

B. filters

C. actions

D. labels

E. tenants

F. end points

G. access entity profile

Correct Answer: ABCD

QUESTION 10

Which four options are benefits of the Cisco ACI fabric and OpenStack environment? (Choose four.)

A. ease of use for application developer

B. application acceleration

C. tunnel encapsulation

D. administration and management

E. troubleshooting

F. southbound integration

G. Layer 4 to Layer 7 service integration

Correct Answer: ABCF

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