300-610$^{Q\&As}$

Designing Cisco Data Center Infrastructure (DCID)

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2 / 4

QUESTION 1

An engineer must design a Cisco HyperFlex solution to support a virtualized environment in a single data center location. The design must consider these customer requirements:

1.

a large-scale cluster with eight or more nodes

2.

distributed high-performance file system for virtualized servers high fault tolerance to multiple node failures Which action meets these objectives?

A. Configure data destaging and deduplication

B. Implement a replication factor of four.

C. Enable logical availability zones.

D. Create multiple datastores for storage of VM.

Correct Answer: B

QUESTION 2

A network consultant evaluates the Ethernet Adapter Policy configuration to be applied to the Cisco UCS blade servers. The policy must minimize latency and increase throughput for sensitive applications. The solution must increase the CPU data cache hit rate to meet these requirements

Which policy is required?

A. AIC

B. ARFS

C. NVM-e

D. RDMA

Correct Answer: B

QUESTION 3

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

A. BFD

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B. UDLD

C. MCP

D. LLDP

Correct Answer: B

DCI: DataCenter Interconnect (not ACI - which is another Cisco product)

Dark Fiber: is the marketing term for a direct fiber cable dug in the ground between two DCs.

UDLD is Uni-directional Link Detection protocol that is used to detect if there is a problem with rx/tx in the fiber strands that may cause switching loop.

QUESTION 4

An engineer must provide Layer 2 adjacency between data centers that are in two locations and separated by a routed network The adjacency must be based on Cisco Nexus 7000 Series Switches The solution must offload learning of host reachability information to the control plane to avoid excessive flood and learn congestion Also the data center in one of the sites experiences a large volume of unknown unicast traffic that the solution must mitigate Which data center interconnect technology meets these requirements?

A. VXLAN

B. OTV

C. VPLS

D. LISP

Correct Answer: A

QUESTION 5

An engineer develops a framework for automatic repetitive tasks needed to manage a Cisco Nexus 9000 Series Switch. The engineer plans to use a programmatic interface and must keep these considerations in mind:

1.

the customer\\'s environment requires the script to authenticate before executing further actions.

2.

the customer\\'s security requirements mandate the use of HTTP transport.

3.

the automation team is familiar with parsing messages encoded in XML or JSON format. Which solution meets these requirements?

A. SNMPv3

B. gRPC

C. RESTCONF

D. NX-API

Correct Answer: D

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