



300-320^{Q&As}

Designing Cisco Network Service Architectures

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**QUESTION 1**

Which of the following is true concerning best design practices at the switched Access layer of the traditional layer2 Enterprise Campus Network?

- A. Cisco NSF with SSO and redundant supervisors has the most impact on the campus in the Access layer
- B. Provide host-level redundancy by connecting each end device to 2 separate Access switches
- C. Offer default gateway redundancy by using dual connections from Access switches to redundant Distribution layer switches using a FHRP
- D. Include a link between two Access switches to support summarization of routing information from the Access to the Distribution layer

Correct Answer: A

QUESTION 2

An engineer is designing an infrastructure to use a 40 Gigabit link as the primary uplink and a 10 Gigabit uplink as the alternate path. Which Routing protocol allows for unequal cost load balancing?

- A. Ospf
- B. Eigrp
- C. ISIS
- D. BGP
- E. RIP

Correct Answer: B

Traffic Sharing EIGRP not only provides unequal cost path load balancing, but also intelligent load balancing, such as traffic sharing. In order to control how traffic is distributed among routes when there are multiple routes for the same destination network that have different costs, use the traffic-share balanced command. With the keyword balanced , the router distributes traffic proportionately to the ratios of the metrics that are associated with different routes.

QUESTION 3

An HSRP design requirement states that preemption must be enabled for the active switch, which is a Cisco 4507R. Assume a boot time of 300 seconds. Which setting of the preemption delay timer minimizes the loss of traffic?

- A. 50 seconds
- B. 100 seconds
- C. 150 seconds
- D. 200 seconds



Correct Answer: D

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Campus/HA_campus_DG/hacampusdg.html#wp1107923

The recommended best practice is to measure the system boot time, and set the HSRP preempt delay statement to 50 percent greater than this value. This ensures that the HSRP primary distribution node has established full connectivity to all parts of the network before HSRP preemption is allowed to occur"-> We can\\'t choose 450 seconds so we take the higher delay available..

QUESTION 4

How to choose the root bridge in the spanning-tree.

- A. Highest MAC address
- B. Lowest Mac address

Correct Answer: AB

<http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/5234-5.html>

QUESTION 5

A company is building a large data center. About 80% of its traffic will be north to south and the other 20% will be east to west. The company is also expecting a significant amount of data center growth over the next 5-10 years but wants to keep the cost of growth low. Which data center design is best suited to meet these goals?

- A. A spine and leaf design with layer 2/3 termination on the leaf nodes
- B. A two-tier design with the layer 2 termination on data center core
- C. A spine and leaf design with layer 2/3 termination on the spine nodes
- D. A three-tier design with a layer 3 termination on the data center core

Correct Answer: A

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