



300-320^{Q&As}

Designing Cisco Network Service Architectures

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**QUESTION 1**

An engineer is attempting to improve OSPF network performance and discovers that the entire SPT recomputes whenever a type 1 or type 2 LSA is received within an area. Which action can optimize SPT operations?

- A. Tune LSA throttling thresholds.
- B. Enable incremental SPF.
- C. Configure totally stubby areas throughout the domain.
- D. Summarize networks on all ABRs.

Correct Answer: B

https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/ospfispf.html#wp1027184 Benefits of OSPF Incremental SPF OSPF uses Dijkstra's SPF algorithm to compute the shortest path tree (SPT). During the computation of the SPT,

the shortest path to each node is discovered. The topology tree is used to populate the routing table with routes to IP networks. When changes to a Type-1 or Type-2 link-state advertisement (LSA) occur in an area, the entire SPT is

recomputed. In many cases, the entire SPT need not be recomputed because most of the tree remains unchanged. Incremental SPF allows the system to recompute only the affected part of the tree. Recomputing only a portion of the tree

rather than the entire tree results in faster OSPF convergence and saves CPU resources. Note that if the change to a Type-1 or Type-2 LSA occurs in the calculating router itself, then the full SPT is performed.

Incremental SPF is scheduled in the same way as the full SPF. Routers enabled with incremental SPF and routers not enabled with incremental SPF can function in the same internetwork.

QUESTION 2

A network engineer must select a network technology to simplify the extension of Layer 2 networks between data centers with a requirement of less than 4,000 VLANs. Which two network technologies accomplish this requirement? (Choose two.)

- A. MPLS
- B. L2TP
- C. VXLAN
- D. LISP
- E. OTV

Correct Answer: AB

QUESTION 3



A company's virtualization team wants to transfer control of network switching and policy management for VMware virtual servers to the networking team. What Cisco network virtualization solution should be implemented?

- A. Unified Computing System
- B. Nexus distributed virtual switch
- C. virtual network agent
- D. Nexus unified fabric switch

Correct Answer: B

QUESTION 4

Seven sites are connected via OTV, what is the best practice to connect more than tree multicast sites using OTV

- A. Filter MAC address at the join interface
- B. Use multicast-enabled transport
- C. Use Unicast-only transport
- D. Configure one edge device for each data center

Correct Answer: B

QUESTION 5

Which technology should a network designer combine with VSS to ensure a loop free topology with optimal convergence time?

- A. Portfast
- B. UplinkFast
- C. RPVST +
- D. Multichassis EtherChannel

Correct Answer: D

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