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Designing Cisco Network Service Architectures

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QUESTION 1

About IPv4 and IPv6 on the same router (dual stack) with IS-IS

A. ...

B. IS-IS

C. ...

D. ...

Correct Answer: B

-Cisco added multitopolgy support for IS-IS to increase flexibility within dual-stack environment.

-Two TLVs added:

IPv6 reachability TLV

IPv6 interface address TLV

-Multi topology IS-IS:

A separate topology is kept for both IPv4 and IPv6 (some links may not be able to carry IPv6 ->; Avoid traffic black-holed)

This mode removes the restriction that all interfaces on which IS-IS is configured must support the identical set of network address families.

A separate SFP per address family.

Wide metric must be used.

-Single-topology IS-IS:

One SPF instance for both IPv4 and IPv6.

Easier to administer but network must be homogeneous.

Due to consistency checks, a router running IS-IS for both IPv4 and IPv6 does notform an adjacency with a router running IS-IS for IPv4 or IPv6 only. Disable consistency checks to maintain adjacencies active in heterogeneous environments.

ForL1 links, this is primarily done during transition.

As in any IS-IS design, L2 routers must be contiguous. IPv6 adjacency checks are notdone on L2 links.

QUESTION 2

To support the enterprise high-availability requirements, which workgroup switch technology can be used to interconnect multiple switches into a single logical unit?

A. StackWise

B. EtherChannel

C. VSS

D. vPC

E. Flex Links

Correct Answer: A

QUESTION 3

Which option is a fundamental process of the Cisco TrustSec technology?

A. prioritization

B. marking

C. propagation

D. detection

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 statement is the most accurate regarding IPsec VPN design for an Enterprise Campus environment?

A. VPN device IP addressing must align with the existing Campus addressing scheme.

B. The choice of a hub-and-spoke or meshed topology ultimately depends on the number of remotes.

C. Sizing and selection of the IPsec VPN headend devices is most affected by the throughput bandwidth requirements

for the remote offices and home worker

D. Scaling considerations such as headend configuration, routing protocol choice, and topology have the broadest impact on the design.

Correct Answer: D

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