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Cisco Certified Design Expert (CCDE) is one of the most sought-after certifications in the IT industry. It is a highly specialized certification that validates the skills of network design professionals. The Cisco 400-007 exam is the written portion of the CCDE v3.0 certification. 400-007 exam tests candidates on their ability to design complex networks and provide solutions to real-world problems.

Cisco 400-007 exam tests a candidate's knowledge of network design theories, principles, and best practices, as well as their ability to apply these concepts to real-world scenarios. It covers a wide range of topics, including network design methodologies, network security, routing and switching, virtualization, and network automation. To Pass 400-007 Exam, candidates need to have a deep understanding of these topics and be able to apply their knowledge to solve complex problems.

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As everybody knows, competitions appear ubiquitously in current society. In order to live a better live, people improve themselves by furthering their study, as well as increase their professional 400-007 skills. With so many methods can boost individual competitiveness, people may be confused, which can really bring them a glamorous work or brighter future? We are here to tell you that a 400-007 Certification definitively has everything to gain and nothing to lose for everyone.

Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q276-Q281):

NEW QUESTION # 276
Which design solution reduces the amount of IGMP state in the network?

- A. IGMP filtering
- B. IGMPv3 with PIM-SSM
- C. Multiple multicast domains
- D. One multicast group address throughout network regardless of IGMP version

Answer: B

Explanation:

* B (IGMPv3 with PIM-SSM):Source-Specific Multicast (SSM) significantly reduces multicast state in the network by eliminating shared trees and (*,G) state, requiring only (S,G) entries. With IGMPv3 receivers specify both the group and source, which reduces unnecessary group membership and simplifies multicast forwarding state.
Other options explained:
* A: IGMP filtering controls receiver access but does not reduce core multicast state.
* C: Multiple multicast domains complicate rather than simplify state.
* D: Using one multicast group is not scalable or practical for multiple services.

NEW QUESTION # 277
What is a disadvantage of the traditional three-tier architecture model when east-west traffic between different pods must go through the distribution and core layers?

- A. High latency
- B. Low bandwidth
- C. Scalability
- D. Security

Answer: A

Explanation:
* D (High latency):In three-tier architectures, east-west traffic between different pods (access domains) must traverse additional layers (distribution and core), introducing extra hops and thus adding latency.
This inefficiency is one reason why spine-leaf architectures are favored for modern data centers.
Other options explained:
* A: Bandwidth is less of a concern with high-speed core links.
* B: Security is not directly affected by east-west traversal in this architecture.
* C: Scalability is limited, but the primary issue for east-west traffic is latency.

NEW QUESTION # 278
Refer to the exhibit. An engineer is designing the network for a multihomed customer running in AS 111. AS 111 does not have any other ASs connected to it. Which technology is more comprehensive to use in the design to make sure that the AS is not being used as a transit AS?
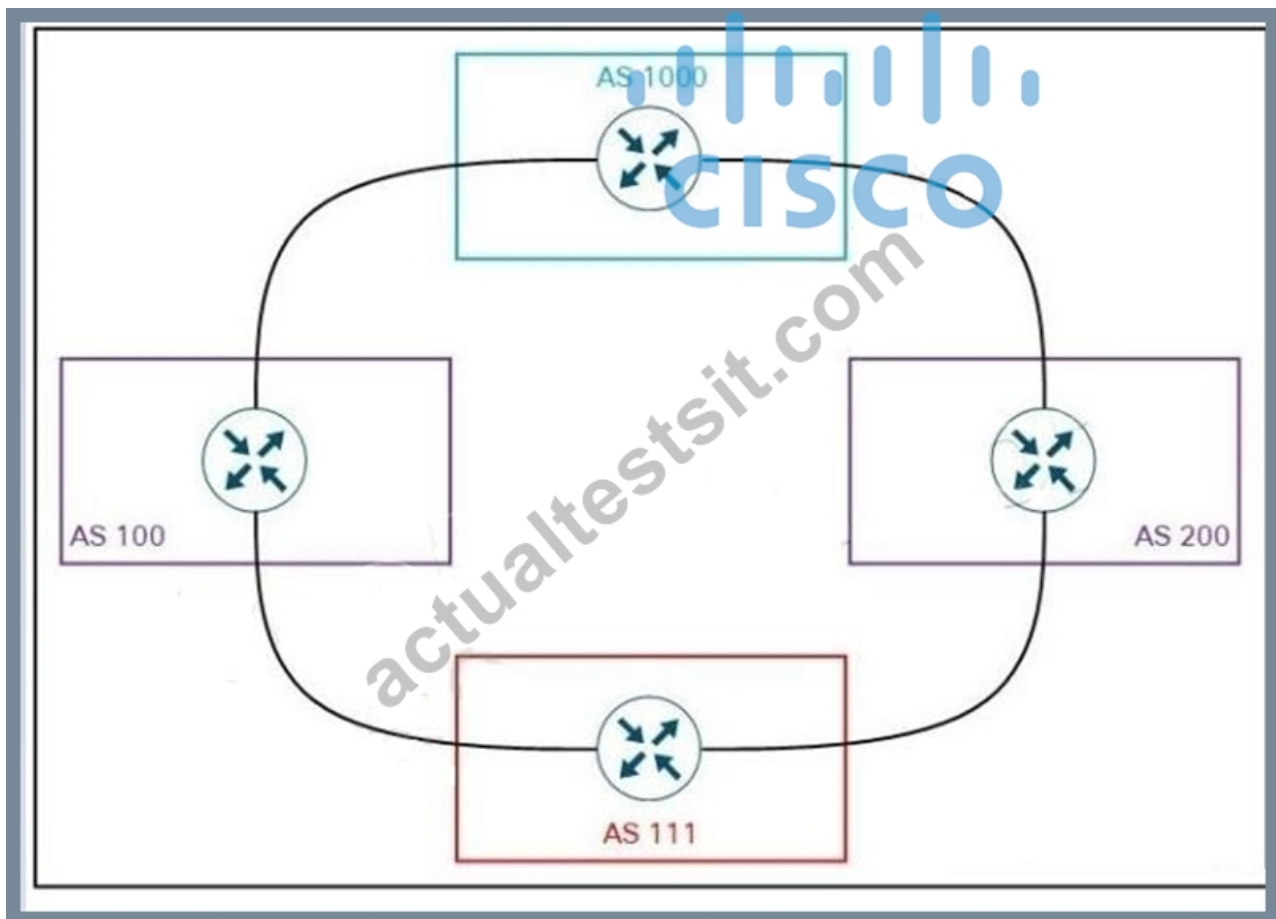
- A. Configure the AS-set attribute to allow only routes from AS 111 to be propagated to the neighbor ASs.
- B. Include a prefix list to only receive routes from neighboring ASs.
- C. Use the local preference attribute to configure your AS as a "non-transit" AS.
- D. Include an AS path access list to send routes to the neighboring ASs that only have an empty AS path field.

Answer: D

Explanation:
Using an AS path access list helps ensure that only routes originating from the customer AS (AS 111) are advertised to another ASs. By filtering routes with an empty AS path field, AS 111 can prevent being used as a transit AS by disallowing routes coming from another ASs. This is a more comprehensive approach compared to other methods in the options provided.

NEW QUESTION # 279
Refer to the exhibit.

OSPF is running as the IGP to provide reachability to all AS100 networks R3 and R4 are the current ABRs at the boundary of OSPF Area0 and Area1 Now BGP must be deployed within AS 100 because it will be receiving Internet routes from its eBGP peers (the service provider) connected to R1 and R2 What is an optimal solution for this deployment to configure BGP relationships and redistribute BGP learned routes into OSPF?

- A. A full mesh should be deployed between all the routers with mutual redistribution to take place at R1 and R2.
- B. R1, R2, R3 and R4 must be set up with a neighbor relationship with R5 only must not be a route reflector.

- C. R5 should be configured as a route reflector for R1, R2, R3 and R4. BGP routes must be redistributed at R1 and R2 into OSPF.
- D. Configuration should be set up with R1 and R2, and R3 in one sub AS, with and R4 in another, and redistribution at R1 and R2.

Answer: A

NEW QUESTION # 280
Refer to the exhibit.
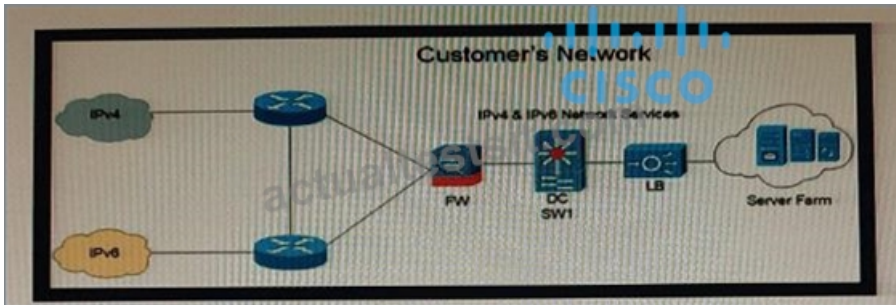
Company XYZ is currently running IPv4 but has decided to start the transition into IPv6. The initial objective is to allow communication based on IPv6 wherever possible, and there should still be support in place for devices that only support IPv4. These devices must be able to communicate to IPv6 devices as well. Which solution must be part of the design?

- A. Dual stack
- B. Host-to-host tunneling
- C. 6rd tunneling
- D. Address family translation

Answer: D

Explanation:
* A (Address family translation):Since the requirement states that IPv4-only devices must be able to communicate with IPv6-only devices, anIPv4-to-IPv6 translation mechanismis necessary. NAT64, DNS64, or protocol translation (address family translation) allows devices on different IP families to communicate without requiring both sides to support both protocols.
Other options explained:
* B (Dual stack): Allows both IPv4 and IPv6 to coexist on devices, but it does not solve the problem for IPv4-only or IPv6-only endpoints needing to interoperate.
* C (Host-to-host tunneling): Requires both endpoints to support tunneling, which is not feasible for legacy devices.
* D (6rd tunneling): Primarily enables rapid IPv6 deployment over IPv4 infrastructure, but does not enable interoperability between IPv4-only and IPv6-only devices.

NEW QUESTION # 281
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