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Cisco 400-007 exam is a written exam that consists of 120 multiple-choice questions. 400-007 exam is designed to test the knowledge and skills of IT professionals in the areas of network design, architecture, and implementation. 400-007 exam covers a wide range of topics, including network design methodologies, network architecture, network security, and network management. 400-007 exam is designed to be challenging and requires a deep understanding of network design principles and best practices.

Cisco 400-007 is a highly sought-after certification exam that is designed for individuals who want to become Cisco Certified Design Experts (CCDE v3.0). 400-007 exam is designed to test the candidate's knowledge and skills in designing complex networks, providing solutions for network infrastructure, and implementing advanced technologies. Cisco Certified Design Expert (CCDE v3.0) Written Exam certification is widely recognized and respected in the networking industry, making it a valuable asset for any IT professional.

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The Cisco 400-007 Exam is intended for network designers with at least seven years of experience in designing complex network infrastructures. Candidates who pass the Cisco 400-007 exam will demonstrate their expertise in designing scalable, secure, and highly available network infrastructures that meet the business needs of their clients. Cisco Certified Design Expert (CCDE v3.0) Written Exam certification is highly valued in the industry, and it can open up several job opportunities for certified professionals.

Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q100-Q105):

NEW QUESTION # 100
Sometimes SDN leverages various overlay networking technologies to create layer(s) of network abstraction.
What describes an overlay network?

- A. It encapsulates packets at source and destination, which incurs additional overhead
- B. It is responsible for the delivery of packets; NAT- or VRF-based segregation is required
- C. Packet delivery and reliability occurs at Layer 3 and Layer 4
- D. It transmits packets that traverse over network devices like switches and routers

Answer: A

NEW QUESTION # 101
Company XYZ is running SNMPv1 in their network and understands that it has some flaws. They want to change the security design to implement SNMPv3 in the network. Which network threat is SNMPv3 effective against?

- A. Brute force dictionary attack
- B. Masquerade threats
- C. DDoS attack
- D. Man-in-the-middle attack

Answer: B

Explanation:
SNMPv1 and SNMPv2c use plaintext community strings and lack built-in encryption or authentication, making them vulnerable to various attacks, including spoofing and message tampering. SNMPv3 addresses these weaknesses by introducing:
* Authentication (to prevent impersonation or "masquerade")
* Encryption (privacy)
* Message integrity
"Masquerade threats" involve an attacker pretending to be a trusted source, which SNMPv3 can prevent via cryptographic authentication mechanisms.
Although SNMPv3 does provide improved security features like integrity and privacy, it is not specifically designed to mitigate volumetric attacks like DDoS or dictionary brute-force. SNMPv3 does not inherently stop man-in-the-middle attacks unless secure key exchanges and trusted paths are fully enforced, which may require additional protocols.

NEW QUESTION # 102
Which methodology is the leading lifecycle approach to network design and implementation?

- A. V model
- B. Waterfall model
- C. PPDIOO

- D. Spiral model

Answer: C

Explanation:
* A (PPDIOO - Prepare, Plan, Design, Implement, Operate, Optimize):PPDIOO is Cisco's structured lifecycle methodology designed specifically for network design, deployment, and management. It ensures continuous improvement, iterative design, and aligns technical efforts with business goals throughout the entire network lifecycle.
Other options explained:
* B: Waterfall is a generic software development methodology.
* C: Spiral emphasizes iterative risk management for software development.
* D: V model applies primarily to software verification and validation.

NEW QUESTION # 103

A BGP route reflector in the network is taking longer than expected to converge during large network changes. Troubleshooting shows that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune the device performance?

- A. Decrease the size of the small buffers.
- B. Increase the keepalive timers for each BGP neighbor.
- C. Increase the size of the large buffers.
- D. Increase the size of the hold queue.

Answer: D

Explanation:
During massive BGP update events (such as after a topology change), a route reflector may struggle processing both BGP updates and the resulting TCP acknowledgments required for reliable BGP session communication.
Increasing the hold queue size allows the router to buffer more packets waiting for processing (including TCP acknowledgments), helping the router handle bursts of BGP updates without dropping TCP segments or tearing down sessions.
This queue tuning is a well-known scalability optimization in CCDE v3.1 when designing route reflector clusters handling large-scale control plane updates.
Why other options are incorrect:
* B & C: Adjusting buffer sizes does not directly address TCP acknowledgment backlog.
* D: Keepalive timers control session liveliness, not update processing.
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NEW QUESTION # 104

An engineer is designing a DMVPN network where OSPF has been chosen as the routing protocol A spoke-to-spoke 'J<ita propagation model must be set up Which two design considerations must be taken into account? (Choose two)

- A. The network type should be point-to-multipoint for the hub and point-to-point for the spokes.
- B. The hub should be set as the DR by specifying the priority to 255.
- C. The network type on all sites should be point-to-multipoint
- D. Configure all the sites as network type broadcast
- E. The hub should be the DR by changing the priority of the spokes to 0.

Answer: D,E

NEW QUESTION # 105

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