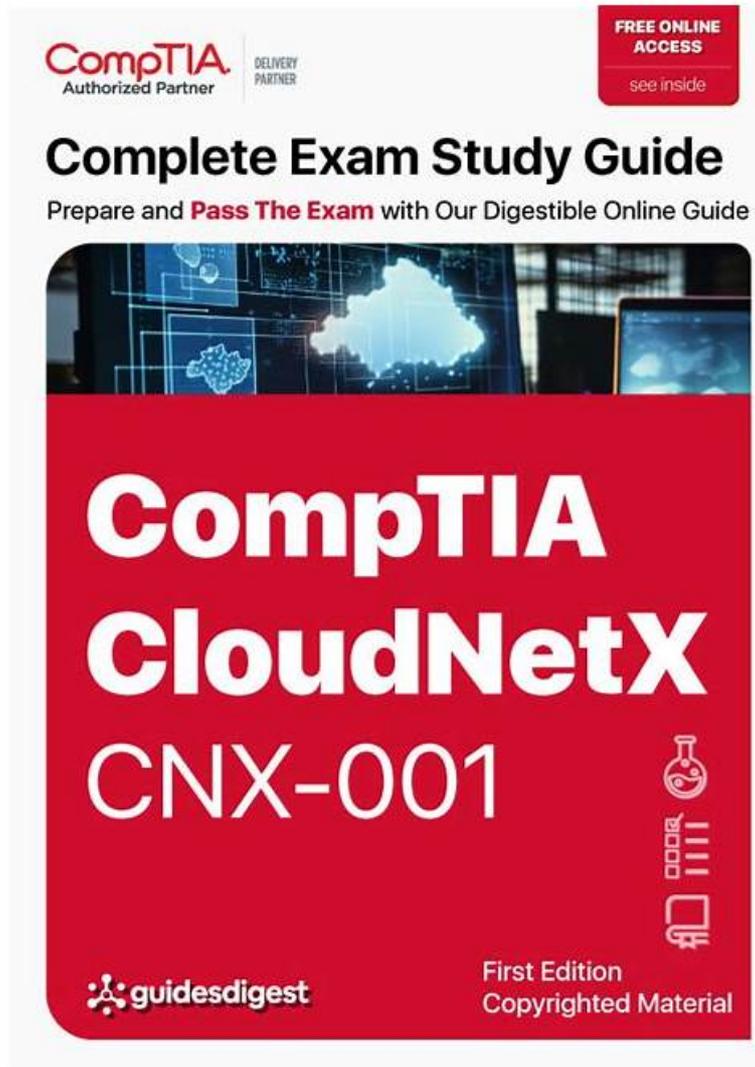


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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Network Troubleshooting: This section of the exam measures the skills of Network Support Engineers and covers diagnosing and resolving connectivity and performance issues across various network layers. It focuses on identifying root causes, using diagnostic tools, and applying systematic troubleshooting methodologies. The goal is to ensure that professionals can minimize downtime, restore service quickly, and prevent recurring problems by maintaining a resilient and stable network environment.

Topic 2	<ul style="list-style-type: none"> • Network Security: This section of the exam measures the skills of Security Engineers and covers core practices for protecting network infrastructure. It includes applying firewall rules, implementing access control measures, and designing secure segmentation strategies. The content emphasizes threat mitigation techniques, secure configuration of networking devices, and adherence to compliance frameworks, preparing professionals to safeguard both internal and external network assets effectively.
Topic 3	<ul style="list-style-type: none"> • Network Operations, Monitoring, and Performance: This section of the exam measures skills of Network Operations Specialists and covers day-to-day operational management of network environments. It involves configuring monitoring tools, analyzing performance data, and responding to alerts. Candidates are evaluated on their ability to maintain network health, optimize throughput, and ensure consistent uptime by applying best practices for proactive performance tuning and operations management.
Topic 4	<ul style="list-style-type: none"> • Network Architecture Design: This section of the exam measures the skills of Network Architects and covers the ability to design scalable, secure, and efficient network architectures. It focuses on understanding design principles, selecting appropriate network components, and aligning architecture decisions with organizational needs. Candidates are expected to demonstrate a solid grasp of topology planning, high-availability configurations, and integration of cloud and on-premise systems to ensure reliability and performance.

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CompTIA CloudNetX Certification Exam Sample Questions (Q32-Q37):

NEW QUESTION # 32

A company's IT department is expected to grow from 100 to 200 employees, and the sales department is expected to grow from 1,000 to a maximum of 2,000 employees. Each employee owns a single laptop with a single IP allocated. The network architect wants to deploy network segmentation using the IP range 10.0.0.0

/8. Which of the following is the best solution?

- A. Allocate 10.1.0.0/22 to the IT department. Allocate 10.2.0.0/15 to the sales department.
- B. Allocate 10.1.0.0/30 to the IT department. Allocate 10.2.0.0/16 to the sales department.
- C. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/24 to the sales department.
- D. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/25 to the sales department.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To accommodate 200 devices in IT and 2,000 devices in Sales, subnetting must allow for appropriate address allocation:

* /22 provides 1,024 addresses # sufficient for IT (200 users)

* /15 provides 65,536 addresses # more than sufficient for Sales (2,000 users) Option C ensures both departments are placed in separate, appropriately sized segments within the private 10.0.0.0/8 range.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "IP Addressing and Subnetting":

"Proper subnetting ensures sufficient host addresses and supports future growth. Network segmentation improves manageability and security." Other options:

* A. /30 provides only 2 usable IPs - insufficient for IT.

* B & D: /24 and /25 do not support 2,000 users in Sales.

* B & D also misallocate resources inefficiently.

NEW QUESTION # 33

A company is expanding operations and opening a new facility. The executive leadership team decides to purchase an insurance policy that will cover the cost of rebuilding the facility in case of a natural disaster. Which of the following describes the team's decision?

- A. Risk transference
- B. Disaster recovery
- C. Business continuity
- D. Memorandum of understanding

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Risk transference is a risk management strategy in which the financial impact of a risk is shifted to a third party, such as an insurance company. In this scenario, the purchase of an insurance policy to cover potential damage or loss from a natural disaster is an example of transferring risk, not avoiding, mitigating, or accepting it.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide under "Risk Management Concepts":

"Risk transference involves moving the responsibility or financial burden of a risk to a third party, often through the purchase of insurance or third-party service agreements." This approach is contrasted with mitigation (reducing risk), acceptance (living with the risk), or avoidance (eliminating the risk).

NEW QUESTION # 34

An application is hosted on a three-node cluster in which each server has identical compute and network performance specifications. A fourth node is scheduled to be added to the cluster with three times the performance as any one of the preexisting nodes. The network architect wants to ensure that the new node gets the same approximate number of requests as all of the others combined. Which of the following load-balancing methodologies should the network architect recommend?

- A. Round-robin
- B. Least connections
- C. Load-based
- D. Weighted

Answer: D

Explanation:

Assign each of the three original nodes a weight of 1 and the new high-performance node a weight of 3. With weighted balancing, the new node will receive $3 / (1 + 1 + 1 + 3) = 50\%$ of traffic - equal to the combined load on the other three.

NEW QUESTION # 35

A network engineer is working on securing the environment in the screened subnet. Before penetration testing, the engineer would like to run a scan on the servers to identify the OS, application versions, and open ports. Which of the following commands should the engineer use to obtain the information?

- A. `nmap -A 10.10.10.0/28`
- B. `hping3 -1 10.10.10.x -rand-dest -I eth0`
- C. `nc -v -n 10.10.10.x 1-1000`
- D. `tcpdump -ni eth0 src net 10.10.10.0/28`

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

`nmap -A` performs aggressive scanning, which includes OS detection, version detection, script scanning, and traceroute - exactly what is required in this case. It's the most effective and commonly used tool for comprehensive network reconnaissance prior to security testing.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Security Scanning and Reconnaissance Tools":

"Nmap supports comprehensive scanning options, including OS fingerprinting, service version detection, and port scanning, enabling

detailed pre-penetration testing assessments." Other options:

- * A. tcpdump is for packet capture, not scanning.
- * C. nc (netcat) is a port scanning tool, but it lacks OS/app detection.
- * D. hping3 is a packet generator, not suitable for full-service scanning.

NEW QUESTION # 36

A company has a 40Gbps network that uses a network tap to inspect the traffic using an IDS. The IDS usually performs normally except when the servers are downloading patches from their local update repository 10.10.10.139 using HTTPS. During the patch windows, the IDS cannot handle the extra load and drops a significant number of packets. Which of the following would allow a network engineer to prevent this issue without compromising the network visibility?

- A. Configuring the IDS to ignore traffic from 10.10.10.139
- B. Using PF_RING offload to filter out "host 10.10.10.139 and port 443"
- C. Scheduling a cron job to stop the IDS service during the patch window
- D. Adding a "dst host 10.10.10.139" BPF on the tap

Answer: D

Explanation:

By applying a Berkeley Packet Filter to drop only the HTTPS patch#repo traffic before it reaches the IDS, you relieve the processing burden during patch windows while preserving full visibility for all other flows. This avoids reconfiguring the IDS itself or losing visibility across the rest of the network.

NEW QUESTION # 37

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