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Practice tests play a crucial role in exam preparation by simulating the real exam environment. They allow you to familiarize yourself with the question format and time constraints, ensuring you know what to expect on test day. Additionally, practice tests help identify knowledge gaps, allowing you to focus on weak areas that need improvement. By regularly taking timed practice exams, you can enhance your time management skills and build the confidence needed to perform well under pressure.

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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
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 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

A cloud network engineer needs to enable network flow analysis in the VPC so headers and payload of captured data can be inspected. Which of the following should the engineer use for this task?

- A. Application monitoring
- B. Syslog service
- C. Traffic mirroring
- D. Network flows

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Traffic mirroring allows a copy of network traffic - including headers and payloads - to be sent to an analysis tool or appliance for deep packet inspection. This is essential for security analysis, network troubleshooting, and performance diagnostics in cloud environments.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Packet Capture and Network Flow Monitoring": "Traffic mirroring enables the capture of full packet data, including payloads, for forensic or performance analysis within cloud networks." Other options:

- * A. Application monitoring focuses on app-level metrics, not packet inspection.
- * B. Syslog is log-based, not for inspecting packets.
- * D. Network flows (e.g., NetFlow, VPC flow logs) provide metadata (source, destination, size) but not full packet content.

NEW QUESTION # 47

A network architect needs to design a new network to connect multiple private data centers. The network must:

- * Provide privacy for all traffic between locations
- * Use preexisting internet connections
- * Use intelligent steering of application traffic over the best path

Which of the following best meets these requirements?

- **A. SD-WAN**
- B. MPLS connections
- C. ExpressRoute
- D. Site-to-site VPN

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

SD-WAN (Software-Defined Wide Area Network) enables private, encrypted connections over public internet links and supports policy-based routing for application-aware traffic steering. It offers centralized management, redundancy, and automatic path selection - all aligned with the stated requirements.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Software-Defined Networking and WAN Optimization":

"SD-WAN uses secure tunnels over the public internet, supports dynamic path selection, and provides application-aware routing, making it ideal for multi-site enterprise connectivity without dedicated links." Other options:

- * A. MPLS requires dedicated circuits and is costly.
- * C. Site-to-site VPN provides security but lacks intelligent traffic steering.
- * D. ExpressRoute is a private connection to Azure, not suited for general internet-based multi-site connectivity.

NEW QUESTION # 48

A company is replacing reserved public IP addresses with dynamic IP addresses. The network architect creates a list of assets with some dependencies to these reserved IPs:

IP	Used by
IP_US_Reserved_A	Allow rule on NSG_1
IP_CA_Reserved_B	Allow rule on NSG_2
IP_BR_Reserved_C	VM A - Network Interface 1
IP_BR_Reserved_D	Network Load Balancer IP 1
IP_GB_Reserved_E	Not allocated

(Refer to image: Reserved IPs are in use by NSGs, VMs, load balancers, and one is unallocated.) Which of the following issues may begin to affect cloud assets after the replacement is made?

- A. IP exhaustion
- B. IP asymmetric routing
- **C. IP reuse**
- D. IP spoofing

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Replacing reserved IPs with dynamic ones can lead to IP reuse issues. Dynamic public IPs can be reallocated to other customers once released. If DNS entries or firewall rules still refer to the original IP, this can lead to data leakage or incorrect routing. Also, some services (e.g., NSGs, load balancers) may require persistent IPs.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Public IP Management in Cloud Environments":

"Dynamic public IPs are subject to reuse after release. Services that rely on IP persistence, such as security groups or load balancers, may encounter unexpected behavior or security risks if replaced with dynamically assigned IPs." Other options:

- * A. Asymmetric routing involves traffic leaving and returning via different paths.
- * B. IP spoofing is a malicious attack, not related to address reassignment.
- * C. IP exhaustion relates to resource limits, not dynamic reuse.

NEW QUESTION # 49

After a malicious actor used an open port in a company's lobby, a network architect needs to enhance network security. The solution must enable:

- * Security posture check
- * Auto remediation capabilities
- * Network isolation
- * Device and user authentication

Which of the following technologies best meets these requirements?

- A. IPS
- B. Microsegmentation
- C. 802.1X
- **D. NAC**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Network Access Control (NAC) evaluates the posture of a device before allowing access to the network. It can enforce security policies, authenticate users and devices, and isolate or remediate non-compliant devices.

NAC is widely used in enterprise environments to secure access at the network edge, such as in guest or public areas.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Access Control and Posture Assessment":

"NAC provides device authentication, security posture validation, and can enforce automated remediation or quarantine actions based on policy compliance." Other options:

- * A. IPS detects and prevents known threats but does not perform access control or posture checks.
- * B. Microsegmentation isolates workloads but lacks posture checks and auto-remediation.

NEW QUESTION # 50

An organization's Chief Technical Officer is concerned that changes to the network using IaC are causing unscheduled outages.

Which of the following best mitigates this risk?

- A. Forking the code repository before making changes
- **B. Adding review/approval steps to the CI/CD pipelines**
- C. Enforcing code review of the change by the author
- D. Making code changes to the master branch

Answer: B

Explanation:

Introducing mandatory review and approval gates in your deployment pipelines ensures that every Infrastructure-as-Code change is peer-reviewed, tested, and explicitly signed off before going live, reducing the chance of unvetted code causing unexpected outages.

NEW QUESTION # 51

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