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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. |
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| Topic 2 | <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 3 | <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 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 (Q65-Q70):

NEW QUESTION # 65

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

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

PF_RING is a high-performance packet capture and filtering framework that allows IDS systems to handle large volumes of traffic efficiently. By offloading and filtering out traffic that is known and trusted (such as HTTPS traffic from a patch server), the IDS can focus on analyzing critical traffic and reduce dropped packets.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Traffic Filtering and IDS Performance Optimization": "Advanced filtering solutions like PF_RING allow offloading of known trusted traffic, reducing processing overhead on IDS systems and improving visibility into meaningful events." Other options:

- * A. Directly configuring the IDS to ignore traffic may bypass too much, affecting visibility.
- * C. BPF filters on the tap itself may interfere with other systems using the tap.
- * D. Disabling the IDS temporarily removes all visibility - a poor security practice.

NEW QUESTION # 66

A SaaS company's new service currently is being provided through four servers. The company's end users are having connection issues, which is affecting about 25% of the connections. Which of the following is most likely the root cause of this issue?

- **A. The service is using round-robin load balancing through a DNS server with one server down.**
- B. Load balancing is configured with a health check in front of these servers, and one of these servers is unavailable.
- C. The service is using weighted load balancing with 40% of the traffic on server A, 20% on server B, 20% on server C, and server D is down.
- D. The service is using a least-connection load-balancing method with one server down.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Round-robin DNS is a simplistic form of load balancing that does not perform health checks. If one of the four servers is down, DNS will still resolve its IP to 25% of users, resulting in failed connections. This matches the symptom of 25% failure rate - 1 out of 4.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Load Balancing Techniques and Availability":

"Round-robin DNS distributes requests without regard for health status. Without external health checks, failed servers will continue to receive traffic, leading to partial service disruptions." Other options:

- * B. The percentages do not align with a 25% failure rate.
- * C. Least-connection algorithms usually have integrated health checks.
- * D. If health checks are active, the load balancer would not forward requests to a failed server.

NEW QUESTION # 67

An organization has centralized logging capability at the on-premises data center and wants a solution that can consolidate logging from deployed cloud workloads. The organization would like to automate the detection and alerting mechanism. Which of the following best meets the requirements?

- A. Data lake
- B. IDS/IPS
- C. Syslog
- **D. SIEM**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A SIEM (Security Information and Event Management) system aggregates logs from various sources, including cloud environments, and provides real-time analytics, threat detection, and automated alerting. It integrates with cloud workloads via agents or APIs and enables centralized visibility and response capabilities.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Security Monitoring and Event Correlation":

"SIEM solutions consolidate logs from multiple environments, including cloud and on-premises, providing automated detection, alerting, and correlation of security events."

"A SIEM supports compliance and improves incident response through real-time monitoring." Other options:

- * A. IDS/IPS are used for intrusion detection/prevention but do not provide log consolidation or alert correlation.
- * C. Data lakes store large volumes of data but lack real-time alerting without additional tools.
- * D. Syslog is a protocol for log transport, not a detection and alerting mechanism.

NEW QUESTION # 68

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

Answer: D

Explanation:

By running encrypted tunnels over your existing Internet links and dynamically steering traffic across the optimal path, an SD-WAN solution delivers privacy and performance intelligence without requiring new private circuits.

NEW QUESTION # 69

An organization has centralized logging capability at the on-premises data center and wants a solution that can consolidate logging from deployed cloud workloads. The organization would like to automate the detection and alerting mechanism. Which of the following best meets the requirements?

- A. Data lake
- B. IDS/IPS
- C. Syslog
- **D. SIEM**

Answer: D

Explanation:

A Security Information and Event Management system ingests and normalizes logs from on-premises and cloud sources, applies automated correlation rules for detection, and issues alerts, exactly matching the need for centralized logging, analysis, and automated notification.

NEW QUESTION # 70

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