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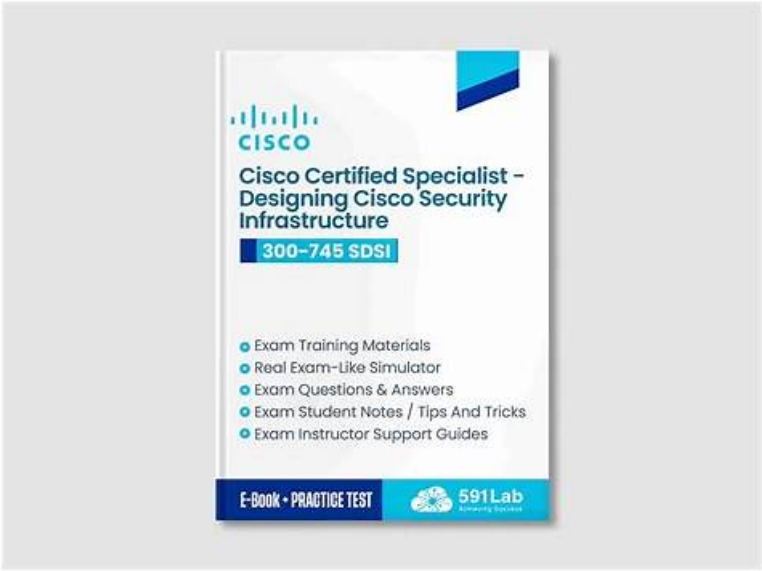

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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	• Applications: Focuses on selecting security solutions to protect applications and designing secure architectures for cloud-native, containerized, and serverless environments using segmentation. Also addresses security design impacts of emerging technologies like AI, ML, and quantum computing.
Topic 2	• Secure Infrastructure: Covers selecting security approaches for endpoints, identities, email, and modern environments like hybrid work, IoT, SaaS, and multi-cloud. Includes choosing VPN • tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.
Topic 3	• Artificial Intelligence, Automation, and DevSecOps: Explores AI's role in securing network infrastructure, selecting tools for automated security architectures such as SOAR, IaC, and API tooling, and integrating security into DevSecOps workflows and pipelines to minimize deployment risk.
Topic 4	• Risk, Events, and Requirements: Covers SOC incident handling and response tools, modifying security designs to mitigate or respond to incidents, and applying frameworks like MITRE CAPEC, NIST SP 800-37, and SAFE. Includes matching regulatory and compliance requirements to business scenarios.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q13-Q18):

NEW QUESTION # 13
Which tool is used to collect, analyze, and visualize logs from network devices, endpoints, and other sources in an enterprise?

- A. Cloud Observability
- B. Cisco Email Security Appliance
- C. Cisco Web Security Appliance
- D. Splunk

Answer: D

Explanation:
In the architectural design of a modern Security Operations Center (SOC), visibility is paramount.Splunkis a leading Security Information and Event Management (SIEM) and log management platform used to aggregate data from disparate sources across the enterprise. According to theCisco SDSI v1.0objectives, specifically within the "Risk, Events, and Requirements" domain, a central repository for telemetry is essential for incident response and threat hunting.
Splunk collects logs, metrics, and other data from network devices (firewalls, switches, routers), endpoints (laptops, servers), and cloud applications. It then indexes this data, allowing security analysts to perform complex searches, create visualizations, and build dashboards that provide a real-time view of the organization's security posture.
While Cisco offers native tools likeCisco Secure Cloud AnalyticsorCloud Observability(Option B) for specific cloud and application performance monitoring, Splunk serves as the broader "single pane of glass" for the entire infrastructure.Cisco Email Security Appliance(Option A) andCisco Web Security Appliance (Option C) are specialized security engines thatgeneratelogs but do not function as the overarching collection and analysis platform for the entire enterprise. By integrating Cisco security products with Splunk, organizations can correlate events-such as a blocked web request from a WSA and a malware alert from a Secure Endpoint-to identify a coordinated attack, fulfilling the Cisco SAFE requirement for pervasive visibility.
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NEW QUESTION # 14
A company recently discovered that a former employee, who left to join a competitor, continued to access and exfiltrate sensitive data over several weeks after leaving. The breach highlighted vulnerabilities in the organization's data security and access management practices. To prevent such incidents in the future, the organization must adopt measures that detect and restrict unauthorized data access and transfer. Which mitigation strategy must be implemented to address the issue?

- A. Upgrade network policy access.
- B. Implement data loss prevention strategy.
- C. Deploy audit logging and monitoring solution.
- D. Implement web application firewall.

Answer: B

Explanation:
The scenario describes a typical "insider threat" involvingdata exfiltration. While the initial failure was likely in the off-boarding process (Identity Management), the technical control required to specifically "detect and restrict unauthorized data access and transfer" is aData Loss Prevention (DLP) strategy. DLP solutions are designed to monitor, detect, and block sensitive data from leaving the organization's control.
A robust DLP strategy-integrated across Cisco platforms likeEmail Security (ESA),Web Security (WSA), andCisco Umbrella-works by identifying sensitive content (such as customer lists, proprietary code, or financial data) using techniques like fingerprinting or keyword matching. If an unauthorized attempt is made to upload this data to a personal cloud drive or send it via email, the DLP engine intercepts and blocks the transfer. WhileAudit Logging(Option D) is essential for forensic investigationafterthe fact, it does not "restrict" the transfer in real-time.WAFs(Option A) protect against external attacks on web servers, and Network Policies(Option

B) control traffic flow but generally lack the content-awareness required to identify sensitive business data. Implementing DLP ensures that the organization's intellectual property remains protected even if an account remains active or a user has legitimate network access.

NEW QUESTION # 15
A software development company uses multiple cloud providers to host the applications. The company is designing a scalable firewall solution that must meet the requirements:
- Consistent security policies across multiple cloud environments.
- Centralized visibility and management.
- Scalability to accommodate different cloud platforms.
Which type of firewall meets the requirements?

- A. host-based firewall
- B. traditional firewall
- C. distributed firewall
- D. zone-based firewall

Answer: C

Explanation:
A distributed firewall is designed for multi-cloud and hybrid environments. It ensures consistent security policies across multiple platforms, offers centralized visibility and management, and scales seamlessly with workloads across different cloud providers. This directly meets the requirements of the scenario, unlike traditional or host-based solutions that lack centralized scalability across multiple clouds.

NEW QUESTION # 16
Which tool must be used to prioritize incidents by a SOC?

- A. SIEM
- B. CloudWatch
- C. endpoint protection platform
- D. endpoint detection and response

Answer: A

Explanation:
A SIEM (Security Information and Event Management) tool collects and correlates security logs from across the enterprise, then applies analytics to prioritize incidents for SOC analysts. This enables efficient detection and response to the most critical threats.

NEW QUESTION # 17
An agricultural company wants to enhance the cybersecurity posture by implementing a defense- in-depth strategy to protect against polymorphic malware threats. Currently, the company's security infrastructure relies solely on a stateful traditional edge firewall that does not provide adequate protection against malware variants. Which technology must be added to the company's security architecture to achieve the goal?

- A. heuristics-based IPS
- B. physical security control
- C. network performance monitor
- D. web application firewall

Answer: A

Explanation:
A heuristics-based Intrusion Prevention System (IPS) analyzes traffic behavior and patterns, allowing it to detect and block polymorphic malware that constantly changes its signature to evade traditional defenses. Adding this technology strengthens the company's defense-in-depth strategy beyond the limitations of a stateful firewall.

NEW QUESTION # 18

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