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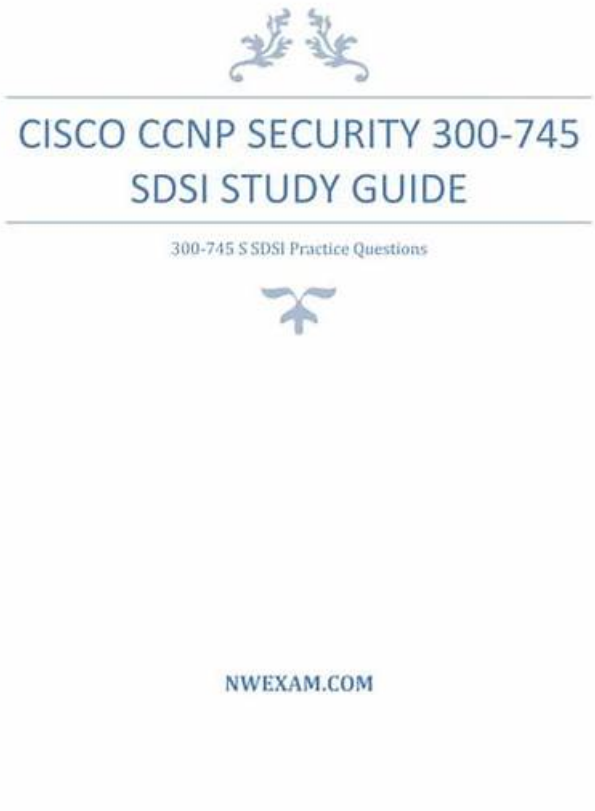

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Cisco 300-745 Exam Syllabus Topics:

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	• 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 3	• 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 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 (Q24-Q29):

NEW QUESTION # 24
Which two metrics are important for evaluating the performance of automated security response workflows? (Choose two.)

- A. Mean Time to Respond (MTTR)
- B. VLAN propagation speed
- C. Mean Time to Detect (MTTD)
- D. CPU temperature

Answer: A,C

Explanation:
MTTD measures how quickly incidents are detected, and MTTR measures how quickly they are resolved. Together, they indicate the effectiveness of automated security response workflows.

NEW QUESTION # 25
Which two best practices align with incident response and compliance objectives? (Choose two.)

- A. Maintain immutable logs
- B. Use shared admin credentials
- C. Implement real-time monitoring
- D. Disable auditing to improve performance

Answer: A,C

Explanation:
Immutable logs preserve evidence integrity, while real-time monitoring allows faster detection and response-both essential for incident response and regulatory compliance.

NEW QUESTION # 26
What does watermarking AI generated content prevent?

- A. deep fakes
- B. harmful content
- C. scale changes
- D. massive resource consumption

Answer: A

Explanation:
In the realm of Artificial Intelligence and DevSecOps,watermarkingis a critical security technique used to identify the origin of synthetic media. As generative AI models become increasingly sophisticated, they can create highly realistic images, videos, and audio clips-often referred to asdeep fakes. These deep fakes pose a significant risk to organizational security and public trust, as they can be used for sophisticated social engineering attacks, such as impersonating executives in "Business Email Compromise" (BEC) scenarios or spreading misinformation.
By embedding a cryptographic or perceptible watermark into AI-generated content, security systems and users can verify the authenticity and provenance of the media. This proactive measure helps prevent the successful deployment of deep fakes by making it easier for automated security tools to flag synthetic content that lacks a valid "signature" of origin. While watermarking does not inherently stop the creation ofharmful content(Option C) or reduceresource consumption(Option A), it provides a layer of accountability and verification. Similarly,scale changes(Option D) are technical image manipulations that watermarking does not prevent. Within the Cisco SDSI framework, watermarking is viewed as an essential component of the AI security lifecycle, ensuring that generative technologies are used responsibly and that synthetic content is distinguishable from genuine data.
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NEW QUESTION # 27
A software development company uses multiple cloud providers to host 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. zone-based firewall
- C. distributed firewall
- D. traditional firewall

Answer: C

Explanation:
In a multi-cloud architecture, traditional perimeter-based firewalls often create "chokepoints" and fail to provide the granularity needed for east-west traffic between microservices across different providers. A distributed firewallis the architectural solution designed to meet these modern requirements. Unlike a centralized appliance, a distributed firewall is implemented as a software-defined layer that resides close to the workloads-often within the hypervisor or as part of a service mesh.
According to Cisco Security Infrastructure objectives, a distributed firewall allows forcentralized managementof a unified policy that is pushed out to all enforcement points, regardless of whether the workload is in AWS, Azure, or an on-premises data center. This ensuresconsistent security policiesacross the entire footprint. Because the enforcement is decentralized, the solution scales automatically as new cloud platforms or workloads are added. While aTraditional Firewall(Option A) lacks the multi-cloud agility, a Zone-based Firewall(Option B) is typically tied to specific physical or logical interfaces on a router, and a Host-based Firewall(Option D) is managed at the individual OS level, which becomes difficult to coordinate centrally at scale. The distributed firewall model aligns with theCisco SAFEarchitectural goal of pervasive security and simplified operations in highly dynamic, heterogeneous cloud environments.
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NEW QUESTION # 28
Which tool is used to collect, analyze, and visualize logs from network devices, endpoints, and other sources in an enterprise?

- A. Cisco Web Security Appliance
- B. Cloud Observability
- C. Cisco Email 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 # 29
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