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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.
Topic 4	<ul style="list-style-type: none">• 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.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q57-Q62):

NEW QUESTION # 57

Considering recent cybersecurity threats, a company wants to improve the process for identifying, assessing, and managing risks with a comprehensive and holistic approach. Which framework must be used to meet these requirements?

- A. GDPR
- B. MITRE CAPEC
- C. NIST SP 800-37
- D. HIPPA

Answer: C

Explanation:

For an organization seeking a "comprehensive and holistic approach" to risk management, the NIST SP 800-37 (Risk Management Framework - RMF) is the industry-standard recommendation. The RMF provides a structured, seven-step process for managing security and privacy risk: Prepare, Categorize, Select, Implement, Assess, Authorize, and Monitor. According to the Cisco SDSI objectives, the NIST RMF allows organizations to align their security controls with their business goals and risk tolerance. It moves security beyond a simple "checklist" and into a continuous lifecycle of improvement. HIPAA (Option A) and GDPR (Option D) are regulatory mandates focused on specific data types (Health and Privacy, respectively) rather than a general framework for all organizational risks. MITRE CAPEC (Option B) is a dictionary of attack patterns used for technical threat modeling, not a holistic risk management process. By adopting NIST SP 800-37, a company ensures that its security infrastructure is designed and maintained based on a rigorous assessment of the current threat landscape and organizational requirements, fulfilling the core requirements of the "Risk, Events, and Requirements" domain.

NEW QUESTION # 58

A software development company relies on GitHub for managing the source code and is committed to maintaining application security. The company must ensure that known software vulnerabilities are not introduced to the application. The company needs a capability within GitHub that can analyze semantic versioning and flag any software components that pose security risks. Which GitHub feature must be used?

- A. Depend-a-bot
- B. Artifact attestations
- C. GitHub Actions
- D. Sealed boxes

Answer: A

Explanation:

Dependabot is a GitHub feature that automatically scans project dependencies, analyzes semantic versioning, and flags or updates components with known vulnerabilities. This prevents insecure software libraries from being introduced into the application.

NEW QUESTION # 59

What is a use for AI in securing network infrastructure?

- A. known day zero attack detection
- B. traffic shaping
- C. quality of service
- D. load balancing

Answer: A

Explanation:

In the architecture of modern security, Artificial Intelligence (AI) and Machine Learning (ML) are leveraged to move beyond reactive, signature-based defenses. One of the most significant uses of AI in securing network infrastructure is the detection of zero-

day attacks (often referred to in exam contexts as "day zero" attacks). A zero-day attack exploits a vulnerability that is unknown to the software vendor or the public, meaning no signature exists for traditional firewalls or antivirus software to block it.

AI identifies these threats through behavioral analysis and anomaly detection. By establishing a highly granular baseline of "normal" network traffic patterns—including flow direction, packet size, inter-packet arrival times, and protocol behavior—AI models can detect subtle deviations that indicate a malicious exploit.

For example, Cisco Secure Network Analytics (formerly Stealthwatch) and Encrypted Threat Analytics (ETA) use ML to identify the cryptographic "fingerprints" of malware even within encrypted traffic, without the need for decryption. This allows the security infrastructure to identify and mitigate threats at the moment they appear, rather than waiting for a vendor to release a signature. While load balancing (Option B), traffic shaping (Option C), and Quality of Service (Option D) are critical for network performance and availability, they are traditional traffic engineering functions that do not inherently provide the advanced threat detection capabilities offered by AI-driven security models. Within the Cisco SDSI objectives, AI is positioned as the primary technology for achieving proactive visibility and reducing the "Mean Time to Detect" (MTTD) for previously unseen vulnerabilities.

NEW QUESTION # 60

An IT company experienced the spread of malicious content between user endpoints, which impacted business critical resources. The company wants to implement a solution to control communication between individual endpoints on the network. Which approach achieves the goal?

- A. posture
- B. RADIUS
- C. profiling
- D. TrustSec

Answer: D

Explanation:

Cisco TrustSec enables software-defined segmentation by assigning Security Group Tags (SGTs) to endpoints and enforcing communication policies. This allows granular control of traffic between individual endpoints, preventing the spread of malicious content across the network.

NEW QUESTION # 61

What is a use for AI in securing network infrastructure?

- A. known day zero attack detection
- B. traffic shaping
- C. quality of service
- D. load balancing

Answer: A

Explanation:

AI enhances network security by detecting zero-day attacks through behavior analysis, anomaly detection, and pattern recognition. This allows threats to be identified and mitigated even before traditional signatures are available.

NEW QUESTION # 62

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