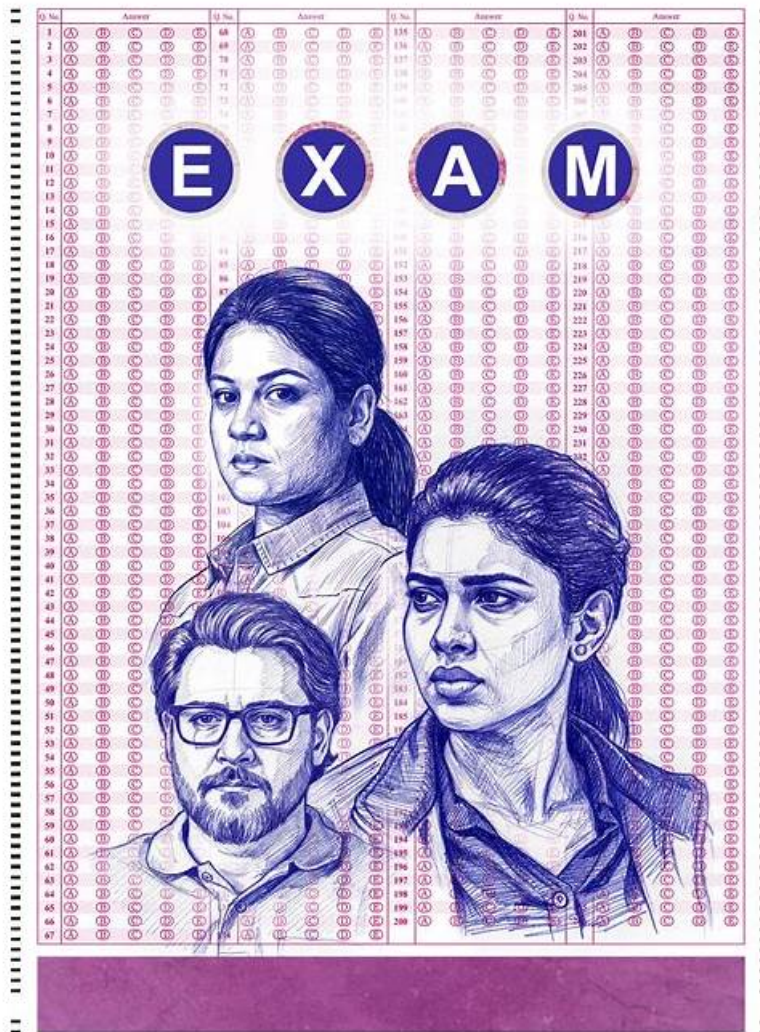


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Cisco 300-745 Exam Syllabus Topics:

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"> 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	<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 4	<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.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q12-Q17):

NEW QUESTION # 12

A construction company recently introduced a BYOD policy, where contractors can bring personal devices and connect to the wireless network. The network engineer configured a Wi-Fi network with a guest splash page to provide internet access only. Although the policy was limited to wireless devices, contractors started bringing devices that needed wired connections without authorization and connecting to the network. The network team suggested shutting down ports where unauthorized devices are connected. Which technology must be implemented to ensure that wired and wireless devices are granted network access only after successful authentication?

- A. private VLANs
- B. 802.1x
- C. VxLANs
- D. VACLs

Answer: B

Explanation:

To secure both wired and wireless access points against unauthorized devices, the industry-standard framework is IEEE 802.1x. This technology provides port-based network access control (PNAC), ensuring that no traffic-wired or wireless-is forwarded by the switch or access point until the device or user has been successfully authenticated by a central authority, typically a RADIUS server like Cisco Identity Services Engine (ISE).

In an 802.1x architecture, the device (Supplicant) must provide valid credentials or certificates to the switch /AP (Authenticator). The Authenticator then communicates with the Authentication Server to verify the identity. If authentication fails, the port remains in a "closed" state, effectively preventing the unauthorized

"rogue" wired connections mentioned in the scenario. This approach is far more scalable and dynamic than manually shutting down ports or using VACLs (Option C), which are static filters based on IP or MAC addresses. VxLANs (Option A) are used for network virtualization and overlay tunneling, while Private VLANs (Option B) provide Layer 2 isolation within a subnet but do not verify identity. By implementing

802.1x, the construction company establishes a robust "gatekeeper" at the hardware level, satisfying the Cisco SDSI objective of securing the network edge through identity-based access control for a diverse set of devices.

NEW QUESTION # 13

Which two approaches support secure communication in containerized microservices architectures? (Choose two.)

- A. Shared service account credentials
- B. Service Mesh with policy enforcement
- C. Mutual TLS between services
- D. Static NAT entries

Answer: B,C

Explanation:

Mutual TLS (mTLS) provides encrypted communication and mutual authentication between services. A service mesh enforces centralized security policies and automates secure communication across microservices.

NEW QUESTION # 14

A global marketing firm, based in California with customers on every continent, suffered a data breach that exposed employee and customer PII. Which regulations is the company in danger of violating?

- A. ISO27001
- B. FedRamp
- C. GDPR
- D. ISO SP800-53

Answer: C

Explanation:

The General Data Protection Regulation (GDPR) is a comprehensive data privacy law in the European Union (EU) that has a significant global reach. For a California-based marketing firm with customers on every continent, any breach involving the Personally Identifiable Information (PII) of European residents triggers immediate and severe legal exposure under GDPR. This regulation is unique because of its extraterritorial application; it mandates that any entity—regardless of its physical headquarters—must comply if they offer goods or services to, or monitor the behavior of, individuals located within the EU.

In the event of a data breach, GDPR requires organizations to notify the relevant supervisory authority within 72 hours and, in cases of high risk, notify the affected individuals without undue delay. Failure to implement adequate technical and organizational measures to protect data can result in astronomical fines of up to €20 million or 4% of annual global turnover, whichever is higher. While other frameworks like NIST SP 800-53 (often confused with ISO in Option A) or ISO 27001 (Option D) provide the architectural standards and controls to prevent such incidents, they are voluntary standards or frameworks, not legally binding regulations that a company "violates" in the same sense as GDPR. FedRAMP (Option B) is specific to US federal government cloud service providers and would not typically apply to a private marketing firm's global operations. Thus, GDPR represents the primary regulatory threat for a global firm handling international PII.

NEW QUESTION # 15

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

Answer: A

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 # 16

A security engineer on an application design team must choose a framework of attack patterns to evaluate during threat modeling. Which framework provides the common set of attacks?

- A. MITRE CAPEC
- B. GDPR
- C. Cisco SAFE
- D. SOC2

Answer: A

NEW QUESTION # 17

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