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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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 4	<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.

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We are pleased to inform you that we have engaged in this business for over ten years with our Designing Cisco Security Infrastructure 300-745 exam questions. Because of our experience, we are well qualified to take care of your worried about the 300-745 Preparation exam and smooth your process with successful passing results.

Cisco Designing Cisco Security Infrastructure Sample Questions (Q46-Q51):

NEW QUESTION # 46

A furniture company recently discovered that the endpoint detection and response configuration flagged several malicious files on company-managed laptops. The company must enhance security to prevent known malicious files from being delivered to the network and endpoints. The new solution must enhance the company's ability to inspect and filter incoming traffic effectively. Which security product must be used to accomplish this goal?

- A. host-based firewall
- B. traditional firewall
- C. eBPF
- D. next-generation firewall

Answer: D

Explanation:

While Endpoint Detection and Response (EDR) is excellent at catching threats that have already reached a device, the objective here is to prevent those files from being delivered in the first place by enhancing the inspection of incoming traffic. A Next-Generation Firewall (NGFW) is the correct architectural choice for this requirement because it operates at the network perimeter (or between segments) and provides deep packet inspection (DPI) far beyond the capabilities of a traditional firewall.

A Cisco Secure Firewall (NGFW) integrates multiple security services into a single platform, including Intrusion Prevention Systems (IPS), Application Visibility and Control (AVC), and Advanced Malware Protection (AMP). When malicious files are sent toward the network, the NGFW can identify them by their signature or behavior and block the transfer before the file ever reaches the internal infrastructure or endpoints. This effectively "cleans" the traffic stream at the gate.

A traditional firewall (Option B) lacks the application-layer visibility needed to identify malicious file content, as it primarily filters based on IP and port. A host-based firewall (Option C) filters traffic at the individual device level, which is a late-stage defense rather than a network delivery prevention tool. eBPF (Option D) is a high-performance kernel technology used for observability and distributed filtering but is not a standalone "security product" used for perimeter traffic inspection in this context. Implementing an NGFW aligns with the Cisco SAFE principle of providing a layered defense that blocks threats as far from the critical assets as possible.

NEW QUESTION # 47

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

Answer: B

Explanation:

In the "Risk, Events, and Requirements" domain of the Cisco SDSI curriculum, understanding how to systematically identify and mitigate threats is essential. MITRE CAPEC (Common Attack Pattern Enumeration and Classification) is a comprehensive dictionary and classification scheme for known attack patterns used by adversaries. It is specifically designed to help security engineers, developers, and designers understand how an attacker might exploit a system. By using CAPEC during the threat modeling phase, an engineer can look at specific "attack patterns"-such as SQL injection, Cross-Site Scripting (XSS), or Man-in-the-Middle-to see if the application's architecture is resilient against them.

Unlike Cisco SAFE (Option A), which is an architectural guide providing best practices for designing secure networks,

orGDPR(Option B) andSOC2(Option D), which are regulatory and compliance frameworks focused on privacy and operational auditing. CAPEC is purely technical and focused on the "how" of an attack. It provides the granular data necessary to simulate attacks and build robust defenses into the application design. Integrating CAPEC into the development lifecycle allows teams to move beyond broad risks and address the specific methods attackers use to bypass security controls. This alignment with the MITRE knowledge base ensures that the security infrastructure is designed with a realistic understanding of modern adversarial tactics, which is a core objective for Cisco security professionals.

NEW QUESTION # 48

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

Answer: B

Explanation:

NIST SP 800-37 provides the Risk Management Framework (RMF), which establishes a structured process for identifying, assessing, and managing cybersecurity risks. It offers a comprehensive and holistic approach, integrating security and risk management activities into the system development life cycle, making it the appropriate framework for this requirement.

NEW QUESTION # 49

A financial company uses a remote access solution that directs all traffic over a secure tunnel. The company recently received some large ISP bills from the headquarter location. According to traffic analysis during the investigation, most of the network traffic was due to employees spending a lot of time on video conferences provided by a SaaS collaboration company. What must the company modify to reduce the cost without negatively impacting security or employee experience?

- A. Split-exclude the video SaaS application from the VPN.
- B. Block the video conferencing app when connected on VPN.
- C. Reduce the video resolution size permitted within the SaaS application.
- D. Suggest users to disconnect from the VPN when on video calls.

Answer: A

Explanation:

In a Full Tunnel VPN configuration, all traffic from the remote client is sent to the VPN headend before being routed to its final destination. This often results in "hairpinning," where high-bandwidth latency-sensitive traffic, such as video conferencing, travels to the corporate data center only to be sent back out to the internet, doubling the bandwidth consumption at the headquarter's ISP link. To resolve this, the company should implement Split-Exclude tunneling. This configuration allows the VPN administrator to define specific applications or IP ranges—in this case, the SaaS video platform—that should bypass the secure tunnel and go directly to the internet via the user's local ISP. This significantly reduces the load on the corporate headquarter's internet connection and often improves the "employee experience" by reducing latency for the video stream. Unlike Option A, which degrades quality, or Option C/D, which disrupts workflow and security posture, split-excluding trusted SaaS traffic maintains a high security standard for internal resources while optimizing infrastructure costs. This aligns with the Cisco SDS objective of designing scalable and cost-effective remote access solutions using Cisco Secure Client (AnyConnect) and Firepower Threat Defense (FTD) policies.

NEW QUESTION # 50

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. Sealed boxes
- B. Depend-a-bot

- C. GitHub Actions
- D. Artifact attestations

Answer: B

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 # 51

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