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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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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Cisco Designing Cisco Security Infrastructure Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which function does a DLP system perform when protecting application data?

- A. Provides segmentation using VLANs
- B. Redirects packets to edge firewalls
- C. Enforces policy compliance by inspecting data in transit
- D. Inspects routing tables

Answer: C

Explanation:

A Data Loss Prevention (DLP) system inspects data in transit (and at rest or in use) to ensure sensitive information is handled according to security policies.

NEW QUESTION # 50

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

Answer: C

Explanation:

Split-exclusion allows trusted SaaS traffic (such as video conferencing) to bypass the VPN tunnel while keeping all other traffic secured. This reduces bandwidth costs at the headend location without degrading security or employee experience, since traffic to the SaaS provider is still encrypted natively.

NEW QUESTION # 51

What is a use for AI in securing network infrastructure?

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

Answer: D

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 # 52

How does a SOC leverage flow collectors?

- A. It performs load balancing capabilities across systems to optimize performance.
- **B. It provides data for analysis in threat detection and response system**
- C. It performs data backup and recovery.
- D. It provides real-time content filtering.

Answer: B

Explanation:

A flow collector (such as Cisco Secure Network Analytics, formerly Stealthwatch) is a critical tool within a Security Operations Center (SOC) for providing "pervasive visibility" into the network. Instead of capturing every full packet—which is resource-intensive—a flow collector ingests NetFlow or IPFIX data, which contains metadata like source/destination IPs, ports, and the volume of data transferred.

The SOC leverages this data for threat detection and response by establishing a baseline of normal network behavior. When a flow collector identifies an anomaly—such as an endpoint suddenly sending gigabytes of data to an unusual external IP (data exfiltration) or scanning internal ports (lateral movement)—it flags the incident for analysis. Unlike Real-time content filtering (Option D), which happens at the gateway (e.g., Cisco Umbrella or WSA), flow collectors provide a historical record and behavioral analysis of all internal and external traffic. They do not perform load balancing (Option B) or backup/recovery (Option A). In the Cisco SDSI framework, flow analysis is essential for identifying the "unknown unknowns" and providing the forensic evidence needed to understand the scope and path of a security breach.

NEW QUESTION # 53

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

Answer: B

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 # 54

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