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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">• 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">• 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">• 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 (Q15-Q20):

NEW QUESTION # 15

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. VACLs
- C. 802.1x
- D. VxLANs

Answer: C

Explanation:

802.1X provides port-based network access control, requiring devices (wired or wireless) to authenticate before gaining network access. This ensures that only authorized users and devices can connect, enforcing the BYOD policy and preventing unauthorized wired connections.

NEW QUESTION # 16

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 provides real-time content filtering
- D. It performs data backup and recovery.

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 # 17

An IT company operates an application in a SaaS model. The administrative tasks, such as customer onboarding, within the application must be restricted to users who are on the corporate network where admins can access those functions via a web browser or a smartphone application. Which application technology must be used to provide granular control based on function?

- A. RBAC

- B. VPC
- C. Service Mesh
- D. security group

Answer: A

Explanation:

Role-Based Access Control (RBAC) restricts application functions (such as administrative tasks) to specific users or groups based on their roles. This ensures that only authorized users on the corporate network can perform sensitive operations, while others are limited to non-administrative functions.

NEW QUESTION # 18

A retail company is facing a series of cyberattacks targeting the web servers, which results in disruptions to the online services. Upon investigation, the security team identified that these attacks involved invalid HTTP request headers, which were used to exploit vulnerabilities in the web application. To safeguard the company websites against similar threats in the future, the security team must deploy a security solution specifically designed to detect and block such malicious web traffic. Which security product must be used to protect the websites from similar attacks?

- A. host-based firewall
- **B. web application firewall**
- C. traditional firewall
- D. antivirus software

Answer: B

Explanation:

A Web Application Firewall (WAF) is specifically designed to protect web servers and applications against attacks such as malformed HTTP requests, invalid headers, and injection attempts. By inspecting HTTP traffic, it blocks malicious requests before they reach the application, safeguarding the company's websites from similar disruptions.

NEW QUESTION # 19

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. VACLs
- **C. 802.1x**
- D. VxLANs

Answer: C

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 # 20

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