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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">• 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">• 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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iOS, Linux, Windows, and Android.

Cisco Designing Cisco Security Infrastructure Sample Questions (Q69-Q74):

NEW QUESTION # 69

Network administrators at a medical facility cannot log in to network devices because of excessive resource consumption and high CPU utilization. The situation has led to delays in routine maintenance and troubleshooting, which affects overall network performance. An engineer must optimize the handling of traffic to reduce the impact and maintain consistent access and operational efficiency. Which approach must be implemented to meet the requirement?

- A. Control Plane Policing
- B. AAA
- C. RBAC
- D. SNMP

Answer: A

Explanation:

Control Plane Policing (CoPP) protects the CPU of network devices by filtering and rate-limiting control plane traffic. This prevents excessive resource consumption, ensures stability, and maintains administrator access for maintenance and troubleshooting.

NEW QUESTION # 70

A technology company has many remote workers who access corporate resources from various locations. The company must ensure that security policies are managed and enforced directly on endpoints, and endpoints are protected from threats regardless of location. Which firewall architecture meets the requirements?

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

Answer: B

Explanation:

A host-based firewall enforces security policies directly on endpoints, ensuring they remain protected regardless of location. This architecture provides consistent defense for remote workers accessing corporate resources from outside the traditional network perimeter.

NEW QUESTION # 71

Which tool is used to collect, analyze, and visualize logs from network devices, endpoints, and other sources in an enterprise?

- A. Cisco Email Security Appliance
- B. Cloud Observability
- C. Splunk
- D. Cisco Web Security Appliance

Answer: C

Explanation:

Splunk is a SIEM and log management tool used to collect, analyze, and visualize logs from diverse sources such as network devices, endpoints, and applications. It provides centralized visibility for security monitoring and incident response.

NEW QUESTION # 72

A telecommunications company recently introduced a hybrid working model. Based on the new policy, employees can work remotely for 2 days per week if corporate equipment is used. The IT department is preparing corporate laptops to support users during the remote working days. Which solution must the IT department implement that provides secure connectivity to corporate resources and protects sensitive corporate data even if a laptop is stolen?

- A. Cisco Duo
- B. Umbrella
- C. ISE Posture
- D. Secure Client

Answer: D

Explanation:

The Cisco Secure Client (formerly AnyConnect) is the comprehensive solution designed to handle the complexities of a hybrid workforce. To meet the company's requirements, Secure Client provides a secure VPN tunnel (SSL or IPsec) that ensures all traffic between the remote laptop and corporate resources is encrypted and authenticated.

Critically, for the scenario where a laptop is stolen, Secure Client integrates with various endpoint security modules. While it primarily handles secure connectivity, it is the platform that hosts features like Always-On VPN and management of disk encryption status. According to Cisco Security Infrastructure design principles, Secure Client acts as the unified agent on the endpoint that maintains the security posture and connectivity regardless of the user's location.

While Cisco Duo (Option B) provides essential Multi-Factor Authentication (MFA) to verify the user's identity, it does not provide the encrypted tunnel for data transit. ISE Posture (Option C) is a feature (often delivered via Secure Client) that checks the health of the device but doesn't provide the connectivity itself.

Umbrella (Option D) protects the user from malicious sites and provides a roaming client for DNS/web security, but it does not replace the requirement for a secure tunnel to private corporate resources. Therefore, Secure Client is the holistic solution that bridges the gap between the remote user and the corporate data center while ensuring that the device remains under the organization's security umbrella.

NEW QUESTION # 73

A company has been facing recurring issues with SQL injection vulnerabilities affecting the products, leading to significant disruptions for customers. To address the security concerns proactively, the company wants to integrate a tool into the CI/CD pipeline. The tool must be capable of identifying vulnerabilities such as SQL injection early in the development process, which allows developers to rectify issues before the code is deployed. Which solution must be implemented to meet the requirement?

- A. Dynamic Application Security Testing tools, such as OWASP ZAP, Veracode, Burp Suite
- B. workflow automation tools, such as GitHub Actions, Azure
- C. build log observability tools, such as Splunk, Datadog
- D. Static Application Security Testing tools, such as Checkmarx, Fortify, SonarQube

Answer: D

Explanation:

In the framework of the Designing Cisco Security Infrastructure (300-745 SDSI) curriculum, the "Shift- Left" security strategy is fundamental to modern DevSecOps. To identify vulnerabilities like SQL injection at the earliest possible stage—specifically before the code is even compiled or deployed—Static Application Security Testing (SAST) is the required solution. SAST tools analyze the application's source code, byte code, or binaries without actually executing the program.

By integrating SAST tools like Checkmarx or SonarQube into the CI/CD pipeline, the security team can automate the scanning of every code commit or pull request. These tools use sophisticated algorithms to trace data flows and identify dangerous patterns, such as user-controlled input being concatenated directly into SQL queries without proper sanitization or parameterization. This proactive approach allows developers to receive immediate feedback within their native workflow, enabling them to fix security flaws before they progress into later, more expensive stages of the development lifecycle.

In contrast, Dynamic Application Security Testing (DAST) (Option D) requires a running instance of the application and typically occurs much later in the pipeline, such as during the testing or staging phase. While DAST is excellent for finding runtime vulnerabilities, it does not meet the requirement of identifying issues

"early in the development process" as effectively as SAST. Build log observability tools (Option B) and workflow automation platforms (Option C) provide infrastructure and visibility but do not possess the specialized engine required to perform deep code analysis for application-layer vulnerabilities like SQL injection. Implementing SAST ensures that security is a foundational element of the code-writing phase, aligning with Cisco's vision for a secure, automated software supply chain.

NEW QUESTION # 74

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