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Cisco Designing Cisco Security Infrastructure Sample Questions (Q50-Q55):

NEW QUESTION # 50

The network security team of a private university is conducting a comprehensive audit to evaluate the security posture across the network infrastructure. During the review, the security team found that a trusted vendor disclosed serious vulnerabilities identified in a product that plays a crucial role in the university's CI/CD pipeline. The security team must act promptly to mitigate the potential risks posed by these vulnerabilities.

Which action must the security team take first in response to the disclosure?

- **A. Confirm impact by validating presence of the product in company's environment.**
- B. Notify customers of the impact and its source.
- C. Patch the impacted product as soon as possible.
- D. Leverage IDS to measure the impact of the vulnerability.

Answer: A

Explanation:

According to the Cisco Security Incident Response lifecycle and the NIST SP 800-61 standards referenced in the SDSI objectives, the very first step in responding to a third-party vulnerability disclosure is Identification and Validation. Before a team can patch, notify stakeholders, or monitor for exploits, they must perform an asset inventory check to confirm whether the specific vulnerable version of the product is actually running within their environment.

In a complex CI/CD pipeline, multiple tools and versions coexist. Jumping straight to patching (Option D) without validation can lead to unnecessary downtime or "breaking" integrated workflows if the vulnerability doesn't actually apply to the version in use. Similarly, using an IDS (Option A) is a detection/monitoring step that follows the confirmation of risk. Notifying customers (Option B) is a later phase in the incident response process, usually reserved for confirmed breaches or significant service impacts. By confirming the presence and version of the software first, the security team can accurately assess the blast radius and prioritize remediation efforts based on the actual risk to the university's specific infrastructure. This systematic approach ensures that resources are allocated efficiently and that the security posture is managed based on verified data rather than assumptions.

NEW QUESTION # 51

A technology company recently onboarded a new customer in the medical space. The customer needs a solution to provide data integrity across remote sites. Which solution must be used to meet this requirement?

- A. hashing
- B. authentication
- C. data masking
- D. preshared key

Answer: A

Explanation:

In the context of the Cisco Security Infrastructure (300-745 SDSI) objectives, ensuring data integrity is a fundamental requirement, particularly in the healthcare sector where the accuracy of medical records at remote sites is critical for patient safety. Hashing is the primary mathematical process used to verify that data has not been altered or tampered with during transit between locations. Hashing works by applying a cryptographic algorithm (such as SHA-256) to a data set to produce a fixed-size string of characters called a "hash" or "checksum." When data is sent from one remote site to another, the sender calculates a hash of the original data. Upon arrival, the receiving site recalculates the hash using the same algorithm. If the two hashes match exactly, the receiver is assured that the data is identical to the original and has maintained its integrity. Even a single-bit change in the original data would result in a completely different hash value.

While Authentication (Option D) and Preshared Keys (Option C) are essential for verifying the identity of the sites and establishing secure tunnels (like IPsec VPNs), they do not, by themselves, provide the mathematical proof of content integrity. Data Masking (Option B) is a privacy technique used to hide sensitive information from unauthorized viewers, but it does not prevent or detect data corruption or unauthorized modifications.

Therefore, hashing is the specified technical control for achieving verifiable data integrity across distributed infrastructures.

NEW QUESTION # 52

A bank experienced challenges with compromised endpoints gaining access to the internal network. To enhance security, the bank wants to ensure that all endpoints are scanned for compliance checks before being allowed to access the network. Which action achieves the level of security and control?

- A. Configure TrustSec using Cisco ISE.
- B. Use MFA using Cisco DUO.
- C. Implement Posture validation using Cisco ISE.
- D. Set up data loss prevention policy.

Answer: C

Explanation:

In high-security environments like banking, simply verifying a user's identity is insufficient; the "health" or security state of the device must also be validated. Posture validation, implemented through Cisco Identity Services Engine (ISE), is the specific architectural process used to ensure an endpoint meets the organization's security requirements—such as having an active antivirus, the latest OS patches, or disk encryption enabled—before it is granted access to the internal network.

When an endpoint connects, Cisco ISE triggers a posture check (often via the Cisco Secure Client agent). If the device is found to be non-compliant (e.g., outdated signatures), ISE can move the endpoint into a restricted quarantine VLAN where it can only access

remediation servers to update its software. Only after a successful re-scan shows the device is compliant is the network access policy updated to allow full internal connectivity.

This effectively prevents compromised or "dirty" endpoints from spreading threats laterally across the bank's network.

While MFA (Option A) secures the user's identity and TrustSec (Option B) provides segmentation, only Posture validation addresses the technical compliance of the endpoint hardware and software itself. Data Loss Prevention (Option C) is focused on data transit rather than initial network admission control.

NEW QUESTION # 53

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

Answer: B

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 # 54

A manufacturing company implemented IoT devices throughout their smart factory and needs a security solution that meets these requirements:

- * Protect IoT devices from network-based attacks.
- * Visibility into communication patterns.
- * Anomaly detection for IoT traffic.

Which firewall technology or feature should be recommended?

- A. zone-based firewall
- B. transparent firewall
- **C. IPS/IDS**
- D. traditional firewall

Answer: C

Explanation:

In a smart factory environment, IoT devices often use specialized industrial protocols (like Modbus, PROFINET, or EtherNet/IP) and have limited built-in security. To meet the requirements of protecting these devices from network-based attacks while gaining visibility into communication patterns and detecting anomalies, an IPS/IDS (Intrusion Prevention/Detection System) is the most effective solution.

Modern Cisco Secure Firewall (NGFW) systems integrate advanced IPS/IDS capabilities that go beyond simple port-based filtering. They provide deep packet inspection (DPI) to identify specific IoT protocols and baseline "normal" behavior. When an IoT device suddenly begins communicating with an unknown external IP or attempts to use a command it has never used before, the IPS/IDS can trigger an alert or block the traffic as an anomaly.

While a Zone-Based Firewall (Option A) or a Traditional Firewall (Option C) can segment traffic and control access between zones, they generally lack the granular visibility and behavior-based anomaly detection required for IoT security. A Transparent Firewall (Option B) is a deployment mode that makes the firewall

"invisible" at Layer 2, which is useful for insertion into existing networks but does not inherently provide the required anomaly detection. Therefore, IPS/IDS is the primary technology within the Cisco Security Infrastructure that addresses the need for signature-based protection combined with behavioral visibility for specialized IoT traffic.

NEW QUESTION # 55

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