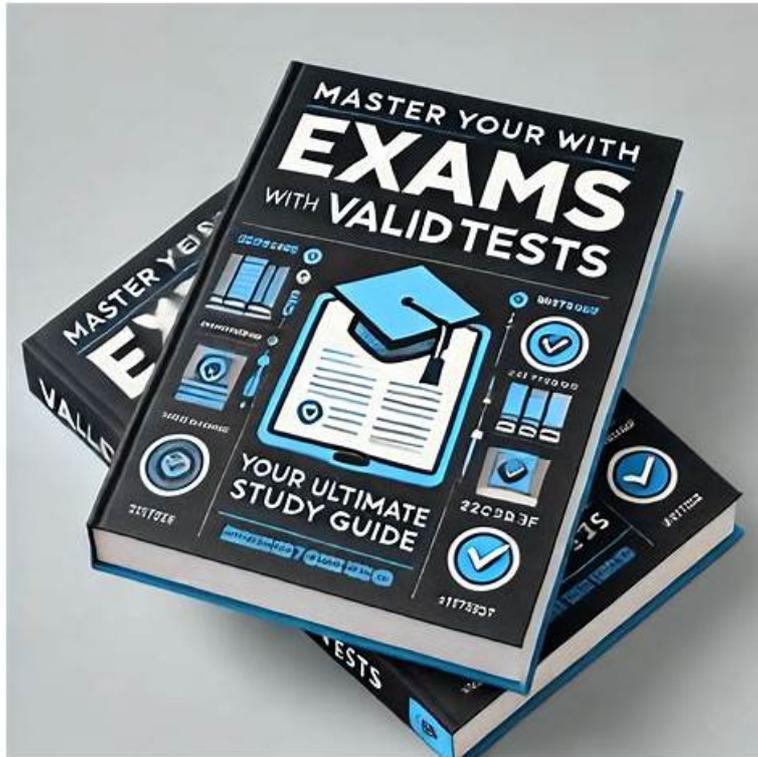


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Cisco Designing Cisco Security Infrastructure Sample Questions (Q71-Q76):

NEW QUESTION # 71

How does a SOC leverage flow collectors?

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

Answer: B

Explanation:

A flow collector gathers metadata about network traffic (such as NetFlow or IPFIX), which SOC analysts use to analyze communication patterns. This data is critical for threat detection and response, helping identify anomalies, lateral movement, or potential attacks.

NEW QUESTION # 72

In preparation for an upcoming security audit, a metal production company decided to enhance the security of container-based services running in a Kubernetes environment. The company wants to ensure that all communications between applications and services are encrypted. The administrator plans to implement mTLS service between application and services to secure the data exchanges. Given the need to manage encryption at scale and maintain efficient communication across the cluster, which network transport technology must be employed?

- A. Kubernetes network policies
- B. load balancing
- **C. Service Mesh**
- D. ingress controller

Answer: C

Explanation:

In modern cloud-native architectures, managing security for hundreds of microservices manually is unfeasible. To implement mutual TLS (mTLS) at scale within a Kubernetes cluster, a Service Mesh (such as Istio or Cisco Service Mesh Manager) is the architectural solution of choice. A service mesh provides a dedicated infrastructure layer for handling service-to-service communication without requiring changes to the application code itself.

The service mesh operates by deploying a "sidecar" proxy alongside every service instance. These proxies handle the heavy lifting of identity verification, certificate rotation, and the establishment of encrypted tunnels. This ensures that every data exchange is encrypted and that services only communicate with authenticated peers. While an Ingress Controller (Option A) manages traffic entering the cluster and Load Balancing (Option B) distributes traffic, neither provides the granular, internal encryption framework required for pod-to-pod mTLS. Kubernetes Network Policies (Option C) act as a distributed firewall to allow or deny traffic based on IP/Port but do not handle encryption or cryptographic identity. By choosing a Service Mesh, the company satisfies the audit requirement for end-to-end encryption and pervasive visibility into the application's communication flow, aligning with Cisco's design principles for secure, scalable microservices.

NEW QUESTION # 73

An employee of a pharmaceutical company accidentally checked in code that contains AWS secret keys to a public GitHub repository, which exposes production resources to attackers. Which mitigation strategy must a security engineer recommend to prevent future reoccurrence?

- A. Add a web application firewall.
- B. Implement a phishing education campaign.
- **C. Configure a SCM precommit hook.**
- D. Implement a more granular port security strategy.

Answer: C

Explanation:

Accidental exposure of sensitive credentials, such as API keys or AWS secrets, is a major risk in modern DevOps environments. To prevent such incidents from occurring, the most effective technical control is the implementation of a Source Code Management (SCM) precommit hook. A precommit hook is a script that runs locally on a developer's machine before a commit is finalized and pushed to a remote repository.

According to Cisco's DevSecOps design principles, precommit hooks can be configured to scan the code for specific patterns that

resemble secrets (e.g., regex for AWS Access Key IDs). If the scanner detects a secret, it automatically aborts the commit, forcing the developer to remove or properly encrypt the sensitive data before the code can leave their local machine. This provides an immediate "shift-left" safety net that stops the leak at the source.

While a Web Application Firewall (WAF) (Option A) protects against external attacks and Port Security (Option B) manages Layer 2 access, neither can prevent a developer from pushing code to GitHub. A phishing education campaign (Option C) is beneficial for general security awareness but does not provide the automated, technical enforcement required to block credential leakage. By configuring precommit hooks, the pharmaceutical company establishes a proactive defense mechanism that significantly reduces the risk of credential exposure and aligns with the automation objectives of the Cisco SDSI curriculum.

NEW QUESTION # 74

Which two controls help detect drift in IaC-managed infrastructure? (Choose two.)

- A. Manual change log entries
- B. Immutable infrastructure patterns
- C. Continuous configuration monitoring
- D. DHCP snooping

Answer: B,C

Explanation:

Continuous configuration monitoring detects deviations from IaC definitions, while immutable infrastructure minimizes drift by replacing resources instead of modifying them in place.

NEW QUESTION # 75

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

Answer: D

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 SDSI objective of designing scalable and cost-effective remote access solutions using Cisco Secure Client (AnyConnect) and Firepower Threat Defense (FTD) policies.

NEW QUESTION # 76

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