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## CISCO CCNP SECURITY 300-745 SDSI STUDY GUIDE

300-745 S SDSI Practice Questions



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### Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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### Cisco Designing Cisco Security Infrastructure Sample Questions (Q40-Q45):

#### NEW QUESTION # 40

A logistics company wants to deploy an application in the cloud using cloud native techniques.

The company must ensure that the development, testing, and production environments are as identical as possible with the lowest risk of the development and testing environments impacting production. Which solution must be used to accomplish the task?

- A. service quotas
- B. separate cloud accounts
- C. network access control list
- D. lambda functions

**Answer: B**

Explanation:

Using separate cloud accounts for development, testing, and production ensures strong isolation between environments. This prevents accidental impact on production while maintaining consistent, cloud-native deployments across all stages with minimal risk.

#### NEW QUESTION # 41

A company recently discovered that a former employee, who left to join a competitor, continued to access and exfiltrate sensitive data over several weeks after leaving. The breach highlighted vulnerabilities in the organization's data security and access management practices. To prevent such incidents in the future, the organization must adopt measures that detect and restrict unauthorized data access and transfer. Which mitigation strategy must be implemented to address the issue?

- A. Deploy audit logging and monitoring solution.
- B. Upgrade network policy access.
- C. Implement data loss prevention strategy.
- D. Implement web application firewall.

**Answer: C**

Explanation:

A Data Loss Prevention (DLP) strategy directly addresses the problem of unauthorized access and exfiltration of sensitive data. DLP tools monitor, detect, and block suspicious data transfers, ensuring that insiders or former employees cannot copy, email, or upload sensitive information without authorization. This provides the required prevention and control that the scenario calls for.

### NEW QUESTION # 42

When designing security for applications distributed across multiple cloud providers, what is a key consideration?

- **A. Consistent identity and access policies**
- B. Local proxy deployment
- C. High-performance DHCP services
- D. MPLS cloud backbone routing

**Answer: A**

Explanation:

Consistent identity and access management policies across cloud providers ensure uniform security controls and simplify governance in multi-cloud environments.

### NEW QUESTION # 43

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

**Answer: A**

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 # 44

A retail company is facing a series of cyberattacks targeting web servers, which results in disruptions to 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. web application firewall**
- B. traditional firewall
- C. antivirus software
- D. host-based firewall

**Answer: A**

#### Explanation:

The cyberattacks described target the application layer (Layer 7), specifically exploiting vulnerabilities through malformed HTTP headers. A Web Application Firewall (WAF) is the specialized security solution required to mitigate these threats. Unlike standard firewalls that inspect traffic at the network and transport layers (IPs and Ports), a WAF performs deep inspection of HTTP/HTTPS traffic.

A WAF—such as those integrated into the Cisco Secure Firewall or cloud-native WAF services—understands the structure of web requests. It can identify and block sophisticated attacks like SQL injection, Cross-Site Scripting (XSS), and the specific "invalid HTTP request headers" mentioned in the scenario. By applying a set of rules (often based on the OWASP Top 10), the WAF filters out malicious requests before they reach the web server. Antivirus software (Option A) and Host-based firewalls (Option D) protect the server's operating system from malware and unauthorized connections but cannot inspect the logic of a web request. A Traditional Firewall (Option B) would simply see the traffic as "allowed" on Port 443 and pass it through.

Implementing a WAF is a critical architectural requirement in the Cisco SDSI "Applications" domain to protect customer-facing web services from exploitation.

#### NEW QUESTION # 45

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