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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>• 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 3	<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 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>

## Cisco Designing Cisco Security Infrastructure Sample Questions (Q68-Q73):

### NEW QUESTION # 68

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

**Answer: B**

Explanation:

An Intrusion Prevention/Detection System (IPS/IDS) provides visibility into IoT communication patterns, protects against network-based attacks, and uses anomaly detection to identify abnormal IoT traffic behaviors. This makes it the most effective solution for securing IoT devices in a smart factory.

### NEW QUESTION # 69

What is the primary benefit of conducting a root cause analysis after a security incident?

- A. Enable compliance with NTP standards
- B. Validate OSI model compliance
- **C. Drive design improvements to prevent recurrence**
- D. Improve FTP throughput

**Answer: C**

Explanation:

Root cause analysis focuses on identifying the underlying cause of a security incident. This enables organizations to improve system design, controls, or processes so that similar incidents do not happen again, rather than only fixing symptoms.

### NEW QUESTION # 70

A developer is building new API functions for a cloud-based application. Before writing the code, the developer wants to ensure that destructive actions, including deleting and updating data, are properly protected by access control identifying sensitive fields such as those that contain passwords or personally identifiable information. Which approach must be used to score the risks proactively?

- **A. Open API Specification Analysis**
- B. SBOM Generation

- C. SAST
- D. CSPM

**Answer: A**

Explanation:

Open API Specification Analysis evaluates API definitions before code is written, identifying risky endpoints (such as delete or update functions) and sensitive fields (like PII or passwords). This allows developers to proactively score risks and apply proper access controls early in the design phase.

#### NEW QUESTION # 71

Which two best practices align with incident response and compliance objectives? (Choose two.)

- A. Maintain immutable logs
- B. Disable auditing to improve performance
- C. Use shared admin credentials
- D. Implement real-time monitoring

**Answer: A,D**

Explanation:

Immutable logs preserve evidence integrity, while real-time monitoring allows faster detection and response-both essential for incident response and regulatory compliance.

#### NEW QUESTION # 72

An oil and gas company recently faced a security breach when an employee's notepad, which contained critical login credentials, was stolen. The incident led to unauthorized access to a user account, which posed a significant risk to sensitive company data and operations. The company wants to adopt a security measure that enhances user account protection. Which action must be taken to prevent breaches like this from happening in the future?

- A. Implement MFA
- B. Implement single sign-on.
- C. Update the RADIUS server.
- D. Configure a password expiration policy.

**Answer: A**

Explanation:

Multi-Factor Authentication (MFA) strengthens user account security by requiring additional verification factors beyond passwords, such as tokens or biometrics. Even if credentials are stolen, MFA prevents unauthorized access, directly addressing the breach scenario.

#### NEW QUESTION # 73

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