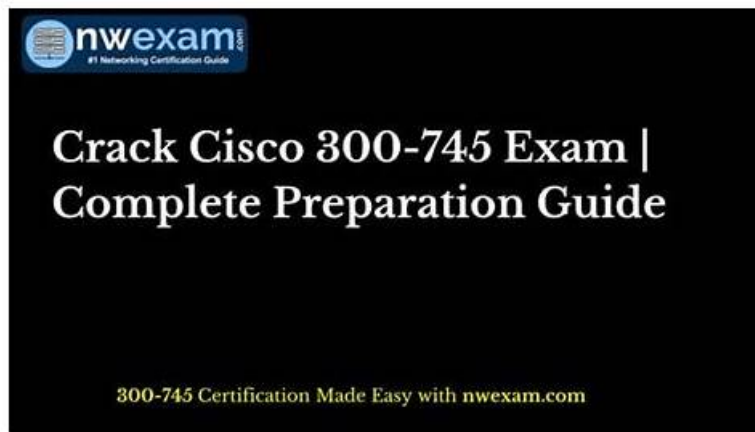


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### Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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</li><li>tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.</li></ul>
Topic 2	<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 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>

- 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.

## Cisco Designing Cisco Security Infrastructure Sample Questions (Q51-Q56):

### NEW QUESTION # 51

A software development company relies on GitHub for managing the source code and is committed to maintaining application security. The company must ensure that known software vulnerabilities are not introduced to the application. The company needs a capability within GitHub that can analyze semantic versioning and flag any software components that pose security risks. Which GitHub feature must be used?

- A. Artifact attestations
- B. Depend-a-bot
- C. GitHub Actions
- D. Sealed boxes

**Answer: B**

Explanation:

In modern DevSecOps, managing third-party dependencies is a major security challenge. Dependabot (often stylized as Depend-a-bot) is the specific GitHub feature designed to automate the identification and updating of vulnerable dependencies. It works by scanning the application's manifest files (like package.json or requirements.txt) and analyzing the semantic versioning of the included libraries.

When a known vulnerability (CVE) is reported in a specific version of a library used by the application, Dependabot flags the security risk and alerts the development team. Most importantly, it can automatically generate pull requests to upgrade the dependency to the minimum secure version that resolves the vulnerability. This ensures that the application remains secure without requiring manual tracking of every third-party component.

While GitHub Actions (Option C) can be used to run security scanners (like SAST tools), it is a general automation framework, not a dedicated dependency analysis tool. Artifact attestations (Option D) are used to prove the provenance and integrity of a build, and Sealed boxes (Option B) is not a standard GitHub security feature related to vulnerability scanning. Utilizing Dependabot directly supports the Cisco SDSI objective of "Securing the CI/CD pipeline" by proactively managing the Software Bill of Materials (SBOM) and ensuring that vulnerable components do not reach the production environment.

### NEW QUESTION # 52

Which tool is used by a SOC analyst to quarantine an endpoint?

- A. flow collector
- B. load balancer
- C. Cisco XDR
- D. syslog

**Answer: C**

Explanation:

In the event of a confirmed compromise, a SOC analyst must act quickly to prevent lateral movement. Cisco XDR (Extended Detection and Response) is the integrated security platform designed to provide cross-layered detection and automated response actions across the network, endpoint, and cloud. One of the most critical response actions within XDR is the ability to quarantine or isolate an endpoint.

Cisco XDR integrates with endpoint security agents (like Cisco Secure Client) and network infrastructure (like Cisco ISE). From a single interface, an analyst can trigger a "Host Isolation" command. This command instructs the endpoint agent to block all network traffic except for communication with the security console, effectively putting the device in digital quarantine. This is much faster and more effective than manually tracking down the device. A flow collector (Option A) and syslog (Option B) are diagnostic tools used for visibility and logging; they cannot take active enforcement actions. A load balancer (Option C) manages traffic distribution for applications and is irrelevant to endpoint containment. Cisco XDR fulfills the SDSI objective of "Securing Infrastructure through Automation," allowing SOC teams to mitigate threats at scale through coordinated response workflows.

### NEW QUESTION # 53

A healthcare organization in the United States recently discovered that a highly confidential report name Records \_\_\_\_\_ that includes patient records name Patient\_Medical\_Records \_\_\_\_\_ was accessed by unauthorized personnel internally. The breach occurred due to lack of protection measures in place for patient electronic medical records. Which regulatory compliance is directly appropriate and must be adopted?

- A. FERPA
- B. FISMA
- C. PCI DSS
- **D. HIPAA**

**Answer: D**

Explanation:

The Health Insurance Portability and Accountability Act (HIPAA) is the U.S. regulation that governs the protection of patient medical records and electronic health information. Since the breach involved unauthorized access to patient medical records, HIPAA compliance is directly required.

### NEW QUESTION # 54

Which design policy addresses harmful content creation by generative AI?

- A. retrieval augmented generation
- B. quantum resistant encryption
- **C. watermarking**
- D. human in the loop

**Answer: C**

Explanation:

Watermarking is a generative AI design policy that embeds hidden identifiers into AI-generated content. This helps address the risk of harmful content creation by enabling traceability and accountability, making it easier to detect and regulate malicious or misleading AI outputs.

### NEW QUESTION # 55

A company published software that had a security vulnerability, and an attacker used the vulnerability to steal critical information from the environment. The issue was reported by the security team, and the administrator was instructed to run shift-left security tests before publishing the software. Which component of the software development pipeline must be recommended to run the tests?

- A. software bill of material analysis
- **B. source code management**
- C. continuous deployment
- D. cloud security posture management

**Answer: B**

Explanation:

In the context of the Cisco SDSI v1.0 blueprint, "shifting left" refers to the practice of integrating security testing as early as possible in the Software Development Life Cycle (SDLC). The most effective component of the pipeline for running these early tests is Source Code Management (SCM). By integrating security tools directly into the SCM system (such as GitHub, GitLab, or Bitbucket), developers can identify vulnerabilities while the code is still being written or during the initial commit phase.

Techniques such as Static Application Security Testing (SAST) and secret scanning are typically triggered at the SCM level through pull requests or commit hooks. This allows the security team to identify flawed logic or hardcoded credentials before the code is ever compiled or moved to the build stage. While Continuous Deployment (Option A) handles the final release of the software, it is too late in the pipeline for a "shift-left" approach to be most effective. Software Bill of Materials (SBOM) analysis (Option C) is a specific task focused on dependency management, and Cloud Security Posture Management (CSPM) (Option B) focuses on the runtime environment rather than the application code itself. Utilizing SCM as the primary checkpoint ensures that security becomes a foundational part of the development process, reducing the risk of vulnerable software reaching production environments.

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## NEW QUESTION # 56

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