

# High Pass-Rate 300-745 Reliable Exam Guide | Easy To Study and Pass Exam at first attempt & Excellent Cisco Designing Cisco Security Infrastructure



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## Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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>• 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>
Topic 4	<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>

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### Cisco Designing Cisco Security Infrastructure Sample Questions (Q29-Q34):

#### NEW QUESTION # 29

A global energy company moved a monolithic application from the data center to public cloud. Over time, the company added many capabilities to the application, and it is now difficult for the application team to scale it.

The application owner decided to modernize the application by moving to a Kubernetes cluster. However, he wants to ensure that the new application architecture provides a container network interface that is scalable, offers options for cloud-native security, and helps with visibility and observability. Which solution must be used to accomplish the task?

- A. ingress gateway
- B. ENI
- C. security group
- **D. Cilium**

**Answer: D**

Explanation:

In the realm of modern application security and Kubernetes networking, Cilium has emerged as the industry-standard Container Network Interface (CNI) that leverages eBPF (extended Berkeley Packet Filter) technology. For a global company modernizing a monolithic app into microservices, Cilium provides the required scalability and high-performance networking by operating directly within the Linux kernel.

Unlike traditional Security Groups (Option A) which are often limited to IP-based rules at the cloud infrastructure level, or ENIs (Option C) which are AWS-specific hardware interfaces, Cilium provides identity-aware security. It understands Kubernetes labels and metadata, allowing for granular Layer 7 policy enforcement. Furthermore, Cilium addresses the "visibility and observability" requirement through its Hubble component, which provides deep insights into network flows, application dependencies, and security events without the overhead of traditional sidecar proxies. An Ingress Gateway (Option D) manages external traffic entering the cluster but does not provide the comprehensive pod-to-pod networking, eBPF-based security, or internal observability that a CNI like Cilium offers. Designing with Cilium aligns with Cisco's focus on cloud-native security and the use of eBPF for distributed firewalling and telemetry in modern application environments.

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#### NEW QUESTION # 30

A financial company is in the process of upgrading network access across the entire company.

The solution must ensure:

- least privilege access
- control access across different network segments
- increased security for employers

Which solution approach must the company take?

- A. PKI
- **B. RBAC**
- C. NetFlow
- D. SNMP

**Answer: B**

Explanation:

Role-Based Access Control (RBAC) enforces least privilege access by granting permissions based on roles, not individuals. It also provides centralized control across network segments, ensuring employees only have the access necessary for their responsibilities, thereby increasing overall security.

### NEW QUESTION # 31

Considering recent cybersecurity threats, a company wants to improve the process for identifying, assessing, and managing risks with a comprehensive and holistic approach. Which framework must be used to meet these requirements?

- A. NIST SP 800-37
- B. GDPR
- C. MITRE CAPEC
- D. HIPPA

**Answer: A**

Explanation:

NIST SP 800-37 provides the Risk Management Framework (RMF), which establishes a structured process for identifying, assessing, and managing cybersecurity risks. It offers a comprehensive and holistic approach, integrating security and risk management activities into the system development life cycle, making it the appropriate framework for this requirement.

### NEW QUESTION # 32

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 # 33

Which tool is used to collect, analyze, and visualize logs from network devices, endpoints, and other sources in an enterprise?

- A. Cloud Observability
- B. Splunk
- C. Cisco Email Security Appliance
- D. Cisco Web Security Appliance

**Answer: B**

Explanation:

Splunk is a SIEM and log management tool used to collect, analyze, and visualize logs from diverse sources such as network devices, endpoints, and applications. It provides centralized visibility for security monitoring and incident response.

**NEW QUESTION # 34**

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