

Cisco 300-745 Exam | Latest 300-745 Learning Materials - 300-745: Designing Cisco Security Infrastructure



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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.
Topic 4	<ul style="list-style-type: none">• 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.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q59-Q64):

NEW QUESTION # 59

A security engineer on an application design team must choose a framework of attack patterns to evaluate during threat modeling. Which framework provides the common set of attacks?

- A. GDPR
- B. Cisco SAFE
- C. SOC2
- **D. MITRE CAPEC**

Answer: D

NEW QUESTION # 60

Which benefit does AI provide in network security?

- A. It replaces comprehensive defense in depth.
- **B. It identifies vulnerabilities associated with weak TLS algorithms.**
- C. It provides complete protection from DDoS attacks.
- D. It speeds up network data transmission rates.

Answer: B

Explanation:

AI in network security enhances threat detection and vulnerability identification by analyzing large volumes of traffic and encryption patterns. It can automatically detect risks such as weak TLS algorithm usage, which would otherwise be difficult to identify quickly with manual processes.

NEW QUESTION # 61

A bank experienced challenges with compromised endpoints gaining access to the internal network. To enhance security, the bank wants to ensure that all endpoints are scanned for compliance checks before being allowed to access the network. Which action achieves the level of security and control?

- **A. Implement Posture validation using Cisco ISE.**
- B. Configure TrustSec using Cisco ISE.
- C. Use MFA using Cisco DUO.
- D. Set up data loss prevention policy.

Answer: A

Explanation:

In high-security environments like banking, simply verifying a user's identity is insufficient; the "health" or security state of the device must also be validated. Posture validation, implemented through Cisco Identity Services Engine (ISE), is the specific architectural process used to ensure an endpoint meets the organization's security requirements—such as having an active antivirus, the latest OS patches, or disk encryption enabled—before it is granted access to the internal network.

When an endpoint connects, Cisco ISE triggers a posture check (often via the Cisco Secure Client agent). If the device is found to be non-compliant (e.g., outdated signatures), ISE can move the endpoint into a restricted quarantine VLAN where it can only access remediation servers to update its software. Only after a successful re-scan shows the device is compliant is the network access policy updated to allow full internal connectivity.

This effectively prevents compromised or "dirty" endpoints from spreading threats laterally across the bank's network.

While MFA (Option A) secures the user's identity and TrustSec (Option B) provides segmentation, only Posture validation addresses the technical compliance of the endpoint hardware and software itself. Data Loss Prevention (Option C) is focused on data transit rather than initial network admission control.

NEW QUESTION # 62

A security engineer on an application design team must choose a framework of attack patterns to evaluate during threat modeling. Which framework provides the common set of attacks?

- A. GDPR
- B. Cisco SAFE
- C. SOC2
- **D. MITRE CAPEC**

Answer: D

Explanation:

MITRE CAPEC (Common Attack Pattern Enumeration and Classification) provides a standardized catalog of attack patterns. It is specifically designed for use in threat modeling and application design, allowing security engineers to anticipate and evaluate common attacks.

NEW QUESTION # 63

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

Answer: B

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 # 64

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