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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>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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## Pass 300-745 Test Guide - Exam 300-745 Vce Format

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

#### NEW QUESTION # 68

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

**Answer: D**

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 # 69

A global hotel chain is using Cisco ISE and Cisco switches to manage the network. The hotel company wants to enhance network security by segmenting users and endpoints. The company must ensure that devices within the same VLAN cannot communicate with each other. The goal is to prevent cross-communication without the use of dynamic access control lists. Which action must be taken using Cisco ISE to meet the requirement?

- A. Enable identity groups.
- B. Set up endpoint profiling.
- C. Implement device posturing.
- **D. Configure TrustSec.**

**Answer: D**

Explanation:

Cisco TrustSec provides software-defined segmentation by assigning Security Group Tags (SGTs) to users and devices. This allows policy enforcement that prevents communication between devices in the same VLAN without needing dynamic ACLs. It is the correct approach to achieve secure segmentation in this scenario.

#### **NEW QUESTION # 70**

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

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

**Answer: C**

Explanation:

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

#### **NEW QUESTION # 71**

Which generative AI impact is addressed by a human-in-the-loop design policy?

- A. phishing
- B. scale changes
- C. deep fakes
- **D. AI hallucinations**

**Answer: D**

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

**Answer: C**

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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