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## CISCO CCNP SECURITY 300-745 SDSI STUDY GUIDE

300-745 SDSI Practice Questions



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

Topic 4

- 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.

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### Cisco Designing Cisco Security Infrastructure Sample Questions (Q39-Q44):

#### NEW QUESTION # 39

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

**Answer: A**

Explanation:

Cisco TrustSec is a next-generation security architecture that provides software-defined segmentation to simplify the provisioning of network access control. In a hotel environment where guest privacy is paramount, TrustSec is the ideal solution to prevent "peer-to-peer" or cross-communication between devices located within the same VLAN. Traditional methods for this isolation, such as Private VLANs (PVLANS) or complex, manually managed Access Control Lists (ACLs), can be extremely difficult to maintain at scale across a global infrastructure.

TrustSec replaces these IP-based or VLAN-based restrictions with Scalable Group Tags (SGTs). When a device connects to the network, Cisco Identity Services Engine (ISE) authenticates the endpoint and assigns it a specific SGT based on its role, identity, or security posture. The network infrastructure (switches) then enforces policy based on these tags. To meet the requirement of preventing communication between devices in the same VLAN without using dynamic ACLs (dACLs), ISE can be configured to assign the same SGT to guest devices and then apply a Security Group ACL (SGACL) that denies traffic where both the source and destination tags are identical. This "intra-SGT" isolation effectively blocks devices from communicating with their neighbors on the same local segment. This approach aligns with the Cisco SAFE architecture by providing granular, identity-aware segmentation that is topology-independent, allowing the hotel chain to maintain a simplified network structure while ensuring robust client security.

#### NEW QUESTION # 40

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

**Answer: A**

Explanation:

The scenario described-where physical theft of written credentials led to a breach-is a classic failure of single-factor authentication. To mitigate this risk, the company must implement Multi-Factor Authentication (MFA). MFA requires users to provide two or more verification factors to gain access to a resource, typically categorized as something you know (password), something you have (a smartphone or hardware token), or something you are (biometrics).

According to Cisco Security Infrastructure design best practices, MFA (such as Cisco Duo) ensures that even if an attacker possesses valid credentials (the "something you know" from the stolen notepad), they cannot gain access without the second factor (the "something you have"). This effectively neutralizes the threat of stolen passwords. Single Sign-On (SSO) (Option B) improves user experience and centralizes management but does not, by itself, stop an attacker who has the master password. Updating the RADIUS server (Option C) is a maintenance task that doesn't change the authentication logic, and a password expiration policy (Option D) would only limit the "shelf life" of the stolen credentials rather than preventing their initial use. MFA is the most robust architectural control for enhancing identity security and is a core pillar of a Zero Trust framework.

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#### NEW QUESTION # 41

An IT company operates an application in a SaaS model. The administrative tasks, such as customer onboarding, within the application must be restricted to users who are on the corporate network where admins can access those functions via a web browser or a smartphone application. Which application technology must be used to provide granular control based on function?

- A. VPC
- **B. RBAC**
- C. security group
- D. Service Mesh

**Answer: B**

Explanation:

Role-Based Access Control (RBAC) restricts application functions (such as administrative tasks) to specific users or groups based on their roles. This ensures that only authorized users on the corporate network can perform sensitive operations, while others are limited to non-administrative functions.

#### NEW QUESTION # 42

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

**Answer: A**

Explanation:

In the "Risk, Events, and Requirements" domain of the Cisco SDSI curriculum, understanding how to systematically identify and mitigate threats is essential. MITRE CAPEC (Common Attack Pattern Enumeration and Classification) is a comprehensive dictionary and classification scheme for known attack patterns used by adversaries. It is specifically designed to help security engineers, developers, and designers understand how an attacker might exploit a system. By using CAPEC during the threat modeling phase, an engineer can look at specific "attack patterns"-such as SQL injection, Cross-Site Scripting (XSS), or Man-in-the-Middle-to see if the application's architecture is resilient against them.

Unlike Cisco SAFE (Option A), which is an architectural guide providing best practices for designing secure networks, or GDPR (Option B) and SOC2 (Option D), which are regulatory and compliance frameworks focused on privacy and operational auditing, CAPEC is purely technical and focused on the "how" of an attack. It provides the granular data necessary to simulate attacks and build robust defenses into the application design. Integrating CAPEC into the development lifecycle allows teams to move beyond broad risks and address the specific methods attackers use to bypass security controls. This alignment with the MITRE knowledge base ensures that the security infrastructure is designed with a realistic understanding of modern adversarial tactics, which is a core objective for Cisco security professionals.

#### NEW QUESTION # 43

A restaurant distribution center recently suffered a password spray attack targeting the Cisco Secure Firepower Threat Defense VPN headend. The attack attempts to gain unauthorized access by trying common passwords across many accounts. The attack poses a significant security threat to the organization's remote access infrastructure. To enhance the security of VPN setup and minimize the risk of similar attacks in the future, the IT security team must implement effective mitigation measures. Which technique effectively reduces the risk of this type of attack?

- A. Disable group aliases in the connection profiles.
- B. Change the AAA authentication method from RADIUS to TACACS+.
- C. Implement an access list to block addresses from the previous password spray attack.
- **D. Enable AAA authentication for the DefaultWEBVPN and DefaultRAGroup Connection Profiles.**

**Answer: D**

Explanation:

Enabling AAA authentication on the default connection profiles ensures that all VPN access attempts must go through strong authentication. This directly mitigates password spray attacks by enforcing centralized authentication controls, enabling account lockout, and supporting additional protections such as multifactor authentication.

## NEW QUESTION # 44

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