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## Cisco 300-745 Valid Test Labs & Test 300-745 Pass4sure

After successful competition of the Cisco 300-745 certification, the certified candidates can put their career on the right track and achieve their professional career objectives in a short time period. For the recognition of skills and knowledge, more career opportunities, professional development, and higher salary potential, the Designing Cisco Security Infrastructure (300-745) certification exam is the proven way to achieve these tasks quickly.

## Cisco Designing Cisco Security Infrastructure Sample Questions (Q31-Q36):

### NEW QUESTION # 31

An employee of a pharmaceutical company accidentally checked in code that contains AWS secret keys to a public GitHub repository, which exposes production resources to attackers. Which mitigation strategy must a security engineer recommend to prevent future reoccurrence?

- A. Implement a more granular port security strategy.
- B. Add a web application firewall.
- C. Configure a SCM precommit hook.
- D. Implement a phishing education campaign.

**Answer: C**

Explanation:

Accidental exposure of sensitive credentials, such as API keys or AWS secrets, is a major risk in modern DevOps environments. To prevent such incidents from occurring, the most effective technical control is the implementation of a Source Code Management (SCM) precommit hook. A precommit hook is a script that runs locally on a developer's machine before a commit is finalized and pushed to a remote repository.

According to Cisco's DevSecOps design principles, precommit hooks can be configured to scan the code for specific patterns that resemble secrets (e.g., regex for AWS Access Key IDs). If the scanner detects a secret, it automatically aborts the commit, forcing the developer to remove or properly encrypt the sensitive data before the code can leave their local machine. This provides an immediate "shift-left" safety net that stops the leak at the source.

While a Web Application Firewall (WAF) (Option A) protects against external attacks and Port Security (Option B) manages Layer 2 access, neither can prevent a developer from pushing code to GitHub. A phishing education campaign (Option C) is beneficial for general security awareness but does not provide the automated, technical enforcement required to block credential leakage. By configuring precommit hooks, the pharmaceutical company establishes a proactive defense mechanism that significantly reduces the risk of credential exposure and aligns with the automation objectives of the Cisco SDSI curriculum.

### NEW QUESTION # 32

A telecommunications company recently introduced a hybrid working model. Based on the new policy, employees can work remotely for 2 days per week if corporate equipment is used. The IT department is preparing corporate laptops to support users during the remote working days. Which solution must the IT department implement that provides secure connectivity to corporate resources and protects sensitive corporate data even if a laptop is stolen?

- A. Secure Client
- B. Cisco Duo
- C. Umbrella
- D. ISE Posture

**Answer: A**

Explanation:

The Cisco Secure Client (formerly AnyConnect) is the comprehensive solution designed to handle the complexities of a hybrid workforce. To meet the company's requirements, Secure Client provides a secure VPN tunnel (SSL or IPsec) that ensures all traffic between the remote laptop and corporate resources is encrypted and authenticated.

Critically, for the scenario where a laptop is stolen, Secure Client integrates with various endpoint security modules. While it primarily handles secure connectivity, it is the platform that hosts features like Always-On VPN and management of disk encryption status. According to Cisco Security Infrastructure design principles, Secure Client acts as the unified agent on the endpoint that maintains the security posture and connectivity regardless of the user's location.

While Cisco Duo (Option B) provides essential Multi-Factor Authentication (MFA) to verify the user's identity, it does not provide the encrypted tunnel for data transit. ISE Posture (Option C) is a feature (often delivered via Secure Client) that checks the health of the device but doesn't provide the connectivity itself.

Umbrella (Option D) protects the user from malicious sites and provides a roaming client for DNS/web security, but it does not replace the requirement for a secure tunnel to private corporate resources. Therefore, Secure Client is the holistic solution that bridges the gap between the remote user and the corporate data center while ensuring that the device remains under the organization's security umbrella.

### NEW QUESTION # 33

A technology company recently onboarded a new customer in the medical space. The customer needs a solution to provide data integrity across remote sites. Which solution must be used to meet this requirement?

- A. preshared key
- B. authentication
- C. hashing
- D. data masking

**Answer: C**

Explanation:

Hashing ensures data integrity by generating a fixed-length value (hash) for data. When data is transmitted between remote sites, the hash can be recalculated and compared to verify that the data has not been altered in transit.

#### **NEW QUESTION # 34**

A telecommunications company recently introduced a hybrid working model. Based on the new policy, employees can work remotely for 2 days per week if corporate equipment is used. The IT department is preparing corporate laptops to support users during the remote working days.

Which solution must the IT department implement that provides secure connectivity to corporate resources and protects sensitive corporate data even if a laptop is stolen?

- **A. Secure Client**
- B. Cisco Duo
- C. Umbrella
- D. ISE Posture

**Answer: A**

Explanation:

Cisco Secure Client (formerly AnyConnect) provides secure remote connectivity through VPN, ensuring encrypted access to corporate resources. It also integrates endpoint security features, protecting sensitive corporate data even if a laptop is stolen.

#### **NEW QUESTION # 35**

A logistics company wants to deploy an application in the cloud using cloud native techniques.

The company must ensure that the development, testing, and production environments are as identical as possible with the lowest risk of the development and testing environments impacting production. Which solution must be used to accomplish the task?

- A. service quotas
- B. network access control list
- C. lambda functions
- **D. separate cloud accounts**

**Answer: D**

Explanation:

Using separate cloud accounts for development, testing, and production ensures strong isolation between environments. This prevents accidental impact on production while maintaining consistent, cloud-native deployments across all stages with minimal risk.

#### **NEW QUESTION # 36**

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