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## CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (Q50-Q55):

### NEW QUESTION # 50

A network administrator who manages a Linux web server notices the following traffic:

```
http://comptia.org/../../../../etc/shadow
```

Which of the following is the BEST action for the network administrator to take to defend against this type of web attack?

- A. Validate that multifactor authentication is enabled on the server for all user accounts.

- B. Validate the server certificate and trust chain.
- **C. Validate the server input and append the input to the base directory path.**
- D. Validate that the server is not deployed with default account credentials.

**Answer: C**

Explanation:

The network administrator is noticing a web attack that attempts to access the /etc/shadow file on a Linux web server. The /etc/shadow file contains the encrypted passwords of all users on the system and is a common target for attackers. The attack uses a technique called directory traversal, which exploits a vulnerability in the web application that allows an attacker to access files or directories outside of the intended scope by manipulating the file path. Validating the server input and appending the input to the base directory path would be the best action for the network administrator to take to defend against this type of web attack, because it would:

Check the user input for any errors, malicious data, or unexpected values before processing it by the web application.

Prevent directory traversal by ensuring that the user input is always relative to the base directory path of the web application, and not absolute to the root directory of the web server. Deny access to any files or directories that are not part of the web application's scope or functionality.

### NEW QUESTION # 51

An application engineer is using the Swagger framework to leverage REST APIs to authenticate endpoints. The engineer is receiving HTTP 403 responses. Which of the following should the engineer do to correct this issue? (Select two).

- A. Obtain a public key.
- **B. Obtain a security token.**
- C. Leverage Kerberos for authentication
- **D. Leverage OAuth for authentication.**
- E. Leverage LDAP for authentication.
- F. Obtain a hash value.

**Answer: B,D**

Explanation:

The HTTP 403 error indicates that the engineer does not have the appropriate permissions to access the endpoint. To correct this, the engineer should obtain a security token and leverage OAuth for authentication. OAuth is a widely used authorization framework for securing API endpoints, and obtaining a security token is a key step in authenticating API requests. These two steps will ensure the correct authentication process is followed, allowing access to the required API resources. CASP+ emphasizes the importance of using secure authentication mechanisms like OAuth for modern web applications and APIs.

Reference:

CASP+ CAS-004 Exam Objectives: Domain 3.0 - Enterprise Security Architecture (API Security, OAuth) CompTIA CASP+ Study Guide: API Security and OAuth for Authentication

### NEW QUESTION # 52

A social media company wants to change encryption ciphers after identifying weaknesses in the implementation of the existing ciphers. The company needs the new ciphers to meet the following requirements:

- Utilize less RAM than competing ciphers.
- Be more CPU-efficient than previous ciphers.
- Require customers to use TLS 1.3 while broadcasting video or audio.

Which of the following is the best choice for the social media company?

- A. IDEA-CBC
- B. Camellia-CBC
- **C. ChaCha20-Poly1305**
- D. AES-GCM

**Answer: C**

### NEW QUESTION # 53

A security analyst discovered that the company's WAF was not properly configured. The main web server was breached, and the following payload was found in one of the malicious requests:

```
<!DOCTYPE doc [  
<!ELEMENT doc ANY>  
<ENTITY xxe SYSTEM "file:///etc/password">]>  
<doc>&xxe;</doc>
```

Which of the following would BEST mitigate this vulnerability?

- A. CAPTCHA
- B. Network intrusion prevention
- C. Input validation
- D. Data encoding

**Answer: C**

Explanation:

Reference: <https://hdivsecurity.com/owasp-xml-external-entities-xxe>

#### NEW QUESTION # 54

A global organization's Chief Information Security Officer (CISO) has been asked to analyze the risks involved in a plan to move the organization's current MPLS-based WAN network to use commodity Internet and SD-WAN hardware. The SD-WAN provider is currently highly regarded but is a regional provider. Which of the following is MOST likely identified as a potential risk by the CISO?

- A. The operating costs of the MPLS network are too high for the organization.
- B. Internal IT staff will not be able to properly support remote offices after the migration.
- C. The SD-WAN provider would not be able to handle the organization's bandwidth requirements.
- D. The SD-WAN provider uses a third party for support.

**Answer: D**

Explanation:

Explanation

SD-WAN (Software-Defined Wide Area Network) is a technology that allows organizations to use multiple, low-cost Internet connections to create a secure and dynamic WAN. SD-WAN can provide benefits such as lower costs, higher performance, and easier management compared to traditional WAN technologies, such as MPLS (Multiprotocol Label Switching).

However, SD-WAN also introduces some potential risks, such as:

The reliability and security of the Internet connections, which may vary depending on the location, provider, and traffic conditions. The compatibility and interoperability of the SD-WAN hardware and software, which may come from different vendors or use different standards.

The availability and quality of the SD-WAN provider's support, which may depend on the provider's size, reputation, and outsourcing practices.

In this case, the CISO would most likely identify the risk that the SD-WAN provider uses a third party for support, because this could:

Affect the organization's ability to resolve issues or request changes in a timely and effective manner.

Expose the organization's network data and configuration to unauthorized or malicious parties.

Increase the complexity and uncertainty of the SD-WAN service level agreement (SLA) and contract terms.

#### NEW QUESTION # 55

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