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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (Q219-Q224):

NEW QUESTION # 219

All staff at a company have started working remotely due to a global pandemic. To transition to remote work, the company has migrated to SaaS collaboration tools. The human resources department wants to use these tools to process sensitive information but is concerned the data could be:

Leaked to the media via printing of the documents

Sent to a personal email address

Accessed and viewed by systems administrators

Uploaded to a file storage site

Which of the following would mitigate the department's concerns?

- **A. VDI, proxy, CASB, and DRM**
- B. Watermarking, forward proxy, DLP, and MFA
- C. Data loss detection, reverse proxy, EDR, and PGP
- D. Proxy, secure VPN, endpoint encryption, and AV

Answer: A

Explanation:

VDI (virtual desktop infrastructure), proxy, CASB (cloud access security broker), and DRM (digital rights management) are technologies that can mitigate the concerns of processing sensitive information using SaaS (software as a service) collaboration tools. VDI is a technology that provides virtualized desktop environments for users that are hosted and managed by a central server, allowing users to access applications or data from any device or location. VDI can prevent data leakage to the media via printing of documents, as it can restrict or monitor the printing capabilities or permissions of users or devices. Proxy is a technology that acts as an intermediary between clients and servers, filtering or modifying web traffic based on predefined rules or policies. Proxy can prevent data leakage to a personal email address, as it can block or redirect web requests to unauthorized or untrusted email domains or services. CASB is a technology that provides visibility and control over cloud services or applications, enforcing security policies or compliance requirements based on predefined rules or criteria. CASB can prevent data access and viewing by systems administrators, as it can encrypt or mask sensitive data before it reaches the cloud provider or application, making it unreadable or inaccessible by unauthorized parties. DRM is a technology that restricts the access, use, modification, or distribution of digital content or devices, enforcing the rights and permissions granted by the content owner or provider to authorized users or devices. DRM can prevent data upload to a file storage site, as it can limit or disable the copying, sharing, or transferring capabilities or permissions of users or devices. Verified References: <https://www.comptia.org/blog/what-is-vgi>
<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 220

A company that uses AD is migrating services from LDAP to secure LDAP. During the pilot phase, services are not connecting

properly to secure LDAP. Block is an excerpt of output from the troubleshooting session:

Which of the following BEST explains why secure LDAP is not working? (Select TWO.)

- A. The company is using the wrong port. It should be using port 389 for secure LDAP.
- B. Danvills.com is under a DDoS-inator attack and cannot respond to OCSP requests.
- C. The secure LDAP service is not started, so no connections can be made.
- D. The clients may not trust idapt by default.
- E. Secure LDAP does not support wildcard certificates.
- F. The clients may not trust Chicago by default.
- G. Secure LDAP should be running on UDP rather than TCP.

Answer: A,C

NEW QUESTION # 221

A product development team has submitted code snippets for review prior to release.

INSTRUCTIONS

Analyze the code snippets, and then select one vulnerability, and one fix for each code snippet.

Code Snippet 1

Code Snippet 2

Vulnerability 1:

SQL injection

Cross-site request forgery

Server-side request forgery

Indirect object reference

Cross-site scripting

Fix 1:

Perform input sanitization of the userid field.

Perform output encoding of queryResponse,

Ensure usex:ia belongs to logged-in user.

Inspect URLs and disallow arbitrary requests.

Implement anti-forgery tokens.

Vulnerability 2

1) Denial of service

2) Command injection

3) SQL injection

4) Authorization bypass

5) Credentials passed via GET

Fix 2

A) Implement prepared statements and bind variables.

B) Remove the serve_forever instruction.

C) Prevent the "authenticated" value from being overridden by a GET parameter.

D) HTTP POST should be used for sensitive parameters.

E) Perform input sanitization of the userid field.

Answer:

Explanation:

See the solution below in explanation.

Explanation:

Code Snippet 1

Vulnerability 1: SQL injection

SQL injection is a type of attack that exploits a vulnerability in the code that interacts with a database. An attacker can inject malicious SQL commands into the input fields, such as username or password, and execute them on the database server. This can result in data theft, data corruption, or unauthorized access.

Fix 1: Perform input sanitization of the userid field.

Input sanitization is a technique that prevents SQL injection by validating and filtering the user input values before passing them to the database. The input sanitization should remove any special characters, such as quotes, semicolons, or dashes, that can alter the intended SQL query. Alternatively, the input sanitization can use a whitelist of allowed values and reject any other values.

Code Snippet 2

Vulnerability 2: Cross-site request forgery

Cross-site request forgery (CSRF) is a type of attack that exploits a vulnerability in the code that handles web requests. An attacker can trick a user into sending a malicious web request to a server that performs an action on behalf of the user, such as changing their password, transferring funds, or deleting data. This can result in unauthorized actions, data loss, or account compromise.

Fix 2: Implement anti-forgery tokens.

Anti-forgery tokens are techniques that prevent CSRF by adding a unique and secret value to each web request that is generated by the server and verified by the server before performing the action. The anti-forgery token should be different for each user and each session, and should not be predictable or reusable by an attacker. This way, only legitimate web requests from the user's browser can be accepted by the server.

NEW QUESTION # 222

A security engineer is making certain URLs from an internal application available on the Internet.

The development team requires the following

- The URLs are accessible only from internal IP addresses
- Certain countries are restricted
- TLS is implemented.
- System users transparently access internal application services in a round robin to maximize performance

Which of the following should the security engineer deploy?

- A. DNS to direct traffic and a WAF with only the specific external URLs configured
- B. An application-aware firewall with geofencing and certificate services using DNS for traffic direction
- C. A load balancer with IP ACL restrictions and a commercially available PKI certificate
- **D. A load balancer with GeoIP restrictions and least-load-sensing traffic distribution**

Answer: D

NEW QUESTION # 223

A recent data breach revealed that a company has a number of files containing customer data across its storage environment. These files are individualized for each employee and are used in tracking various customer orders, inquiries, and issues. The files are not encrypted and can be accessed by anyone. The senior management team would like to address these issues without interrupting existing processes.

Which of the following should a security architect recommend?

- A. A CRM application to consolidate the data and provision access based on the process and need
- **B. A DLP program to identify which files have customer data and delete them**
- C. A CMDB to report on systems that are not configured to security baselines
- D. An ERP program to identify which processes need to be tracked

Answer: B

NEW QUESTION # 224

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