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and authorization.
Which of the following actions would BEST resolve the issue? (Choose two.)

- A. Conduct input sanitization.
- B. Deploy a SIEM.
- C. Use containers.
- D. Patch the OS.
- E. Deploy a WAF.
- F. Deploy a reverse proxy.
- G. Deploy an IDS.

Answer: AE

Explanation:
A WAF protects your web apps by filtering, monitoring, and blocking any malicious HTTP/S traffic traveling to the web application, and prevents any unauthorized data from leaving the app. It does this by adhering to a set of policies that help determine what traffic is malicious and what traffic is safe.

Question: 4

In preparation for the holiday season, a company redesigned the system that manages retail sales and moved it to a cloud service provider. The new infrastructure did not meet the company's availability requirements. During a postmortem analysis, the following issues were highlighted:

1. International users reported latency when images on the web page were initially loading.
2. During times of report processing, users reported issues with inventory when attempting to place orders.
3. Despite the fact that ten new API servers were added, the load across servers was heavy at peak times.

Which of the following infrastructure design changes would be BEST for the organization to implement to avoid these issues in the future?

- A. Serve static content via distributed CDNs, create a read replica of the central database and pull reports from there, and auto-scale API servers based on performance.
- B. Increase the bandwidth for the server that delivers images, use a CDN, change the database to a nonrelational database, and split the ten API servers across two load balancers.
- C. Serve images from an object storage bucket with infrequent read times, replicate the database across different regions, and dynamically create API servers based on load.
- D. Serve static-content object storage across different regions, increase the instance size on the managed relational database, and distribute the ten API servers across multiple regions.

Answer: A

Question: 5

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CompTIA CAS-004 Overview of the Problems Faced in Preparation Exam Questions

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

NEW QUESTION # 50

During a review of events, a security analyst notes that several log entries from the FIM system identify changes to firewall rule sets. While coordinating a response to the FIM entries, the analyst receives alerts from the DLP system that indicate an employee is sending sensitive data to an external email address. Which of the following would be the most relevant to review in order to gain a better understanding of whether these events are associated with an attack?

- A. Firewall access control list
- B. **NetFlow logs**
- C. Configuration management tool
- D. Intrusion prevention system
- E. Mobile device management platform

Answer: B

Explanation:

NetFlow logs provide visibility into network traffic patterns and volume, which can be analyzed to detect anomalies, including potential security incidents. They can be invaluable in correlating the timing and nature of network events with security incidents to better understand if there is an association.

NEW QUESTION # 51

A mobile application developer is creating a global, highly scalable, secure chat application. The developer would like to ensure the application is not susceptible to on-path attacks while the user is traveling in potentially hostile regions. Which of the following would BEST achieve that goal?

- A. **Configure certificate pinning inside the application.**
- B. Utilize the SAN certificate to enable a single certificate for all regions.
- C. Deploy client certificates to all devices in the network.
- D. Enable HSTS on the application's server side for all communication.

Answer: A

Explanation:

Explanation: Certificate pinning is a technique that embeds one or more trusted certificates or public keys inside an application, and verifies that any certificate presented by a server matches one of those certificates or public keys. Certificate pinning can prevent on-path attacks, such as man-in-the-middle (MITM) attacks, which intercept and modify the communication between a client and a server.

NEW QUESTION # 52

The principal security analyst for a global manufacturer is investigating a security incident related to abnormal behavior in the ICS network. A controller was restarted as part of the troubleshooting process, and the following issue was identified when the controller was restarted:

□ During the investigation, this modified firmware version was identified on several other controllers at the site.

The official vendor firmware versions do not have this checksum. Which of the following stages of the MITRE ATT&CK framework for ICS includes this technique?

- A. Evasion
- B. Lateral movement
- C. **Persistence**
- D. Collection

Answer: C

Explanation:

The MITRE ATT&CK framework for ICS (Industrial Control Systems) details various tactics and techniques that may be used by adversaries. In the scenario described, the presence of unexpected firmware versions with a checksum that does not match the official vendor firmware indicates that the firmware has been modified. In the MITRE ATT&CK framework for ICS, this falls under the "Persistence" tactic, as it demonstrates an adversary's ability to maintain their foothold within the environment through unauthorized modification of device firmware.

NEW QUESTION # 53

A developer wants to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users. Which of the following would be BEST for the developer to perform? (Choose two.)

- A. Implement certificate-based authentication.
- B. Encrypt with 3DES.
- C. Verify MD5 hashes.
- D. Make the DACL read-only.
- E. Utilize code signing by a trusted third party.
- F. Compress the program with a password.

Answer: D,E

Explanation:

Utilizing code signing by a trusted third party and making the DACL (discretionary access control list) read-only are actions that the developer can perform to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users. Code signing is a technique that uses digital signatures to verify the authenticity and integrity of code, preventing unauthorized modifications or tampering. A trusted third party, such as a certificate authority, can issue and validate digital certificates for code signing. A DACL is an attribute of an object that defines the permissions granted or denied to users or groups for accessing or modifying the object. Making the DACL read-only can prevent unauthorized users or groups from changing the permissions or accessing the code. Implementing certificate-based authentication is not an action that the developer can perform to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users, but a method for verifying the identity of users or devices based on digital certificates, preventing unauthorized access or impersonation. Verifying MD5 hashes is not an action that the developer can perform to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users, but a method for checking the integrity of files based on cryptographic hash functions, detecting accidental or intentional changes or corruption. Compressing the program with a password is not an action that the developer can perform to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users, but a method for reducing the size of files and protecting them with a password, preventing unauthorized access or extraction. Encrypting with 3DES is not an action that the developer can perform to maintain integrity to each module of a program and ensure the code cannot be altered by malicious users, but a method for protecting the confidentiality of data based on symmetric-key encryption algorithms, preventing unauthorized disclosure or interception. Verified References: <https://www.comptia.org/blog/what-is-code-signing>
<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 54

A cybersecurity engineer analyst a system for vulnerabilities. The tool created an OVAL. Results document as output. Which of the following would enable the engineer to interpret the results in a human readable form? (Select TWO.)

- A. Debugging utility
- B. XML style sheet
- C. Text editor
- D. OOXML editor
- E. Event Viewer
- F. SCAP tool

Answer: C,F**NEW QUESTION # 55**

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