CAS-004 Q&As

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QUESTION 1

A forensics investigator is analyzing an executable file extracted from storage media that was submitted for evidence. The investigator must use a tool that can identify whether the executable has indicators, which may point to the creator of the file. Which of the following should the investigator use while preserving evidence integrity?

A. ldd

B. bcrypt

C. SHA-3

D. ssdeep

E. dcfldd

Correct Answer: D

QUESTION 2

A university issues badges through a homegrown identity management system to all staff and students. Each week during the summer, temporary summer school students arrive and need to be issued a badge to access minimal campus resources. The security team received a report from an outside auditor indicating the homegrown system is not consistent with best practices in the security field and leaves the institution vulnerable.

Which of the following should the security team recommend FIRST?

A. Investigating a potential threat identified in logs related to the identity management system

B. Updating the identity management system to use discretionary access control

C. Beginning research on two-factor authentication to later introduce into the identity management system

D. Working with procurement and creating a requirements document to select a new IAM system/vendor

Correct Answer: A

QUESTION 3

A cloud engineer is tasked with improving the responsiveness and security of a company\\'s cloud-based web application. The company is concerned that international users will experience increased latency.

Which of the following is the BEST technology to mitigate this concern?

A. Caching

B. Containerization

C. Content delivery network

D. Clustering

Correct Answer: C

Content Delivery Network (CDN) is an example of implementing horizontal scalability. CDNs leverage the global footprint of cloud platforms by distributing and replicating the components of any service, such as web apps, media, and storage, across all the key service areas needing access to the content. This approach allows for the fastest delivery of content to local regions and provides unmatched scalability and performance. Typically, CDN Edge Servers are placed at the Internet Exchange Points (IXP) between different networks. The CDN Servers handle traffic originating in each network and communicate back to the Origin Server. CDN architecture improves website load times; improves availability and redundancy; reduces costs by limiting the amount of content delivered directly by an origin server; and improves website security by mitigating DDoS attacks, distributing digital certificates, and facilitating the use of specialized encryption hardware.

QUESTION 4

A web service provider has just taken on a very large contract that comes with requirements that are currently not being implemented. In order to meet contractual requirements, the company must achieve the following thresholds:

1.

99.99% uptime

2.

Load time in 3 seconds

3.

Response time =