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The CASP+ exam is a performance-based certification that tests the candidates on their ability to handle complex security scenarios in real-world situations. CAS-004 exam covers a wide range of topics, including enterprise security, risk management, research and analysis, integration of computing, communications and business disciplines, and technical integration of enterprise components. CAS-004 exam is designed to assess the candidates' ability to apply critical thinking and judgment across a broad spectrum of security disciplines to propose and implement solutions that map to enterprise drivers. The CASP+ certification is highly regarded in the industry and is recognized by government agencies and private corporations worldwide.

CompTIA CAS-004 is an advanced-level certification exam offered by the Computing Technology Industry Association (CompTIA) for IT professionals seeking to advance their careers in the cybersecurity field. CAS-004 exam is designed to validate the knowledge and skills required to conceptualize, design, and implement secure solutions across a variety of enterprise environments.

>> New CAS-004 Test Voucher <<

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CompTIA CAS-004 (CASP+) exam is an essential certification for IT professionals who want to advance their careers in cybersecurity. CompTIA Advanced Security Practitioner (CASP+) Exam certification covers advanced-level topics and validates a candidate's technical knowledge, skills, and expertise in cybersecurity. Passing the exam requires significant preparation and deep understanding of cybersecurity concepts and best practices.

CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (Q293-Q298):

NEW QUESTION # 293

Which of the following provides the best solution for organizations that want to securely back up the MFA seeds for its employees in a central, offline location with minimal management overhead?

- A. Hardware security module
- B. Key escrow service
- C. Encrypted database
- D. Secrets management

Answer: A

Explanation:

A Hardware Security Module (HSM) provides the best solution for securely backing up MFA seeds in a central, offline location with minimal management overhead. HSMs are specialized hardware devices designed for cryptographic key management, including storing sensitive data like MFA seeds securely. HSMs offer high levels of protection against tampering and provide offline security, making them an ideal choice for backing up cryptographic materials. CASP+ recognizes HSMs as critical components for managing and securing cryptographic keys in centralized, secure environments.

Reference:

CASP+ CAS-004 Exam Objectives: Domain 3.0 - Enterprise Security Architecture (HSM and Secure Key Management)

CompTIA CASP+ Study Guide: Secure Backup and Key Management with HSM

NEW QUESTION # 294

A pharmaceutical company was recently compromised by ransomware. Given the following EDR output from the process investigation:

□ On which of the following devices and processes did the ransomware originate?

- A. cpt-ws002, NO-AV.exe
- B. cpt-ws002, DearCry.exe
- C. cpt-ws026, DearCry.exe
- D. cpt-ws018, powershell.exe
- E. cpt-ws026, NO-AV.exe

Answer: E

Explanation:

The EDR output shows the process tree of the ransomware infection. The root node is NO-AV.exe, which is a malicious executable that disables antivirus software and downloads the DearCry ransomware. The NO-AV.exe process was launched on cpt-ws026 by a user named John. The DearCry.exe process was then launched on cpt-ws026 by NO-AV.exe and propagated to other devices via SMB. Therefore, the ransomware originated from cpt-ws026 and NO-AV.exe.

NEW QUESTION # 295

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

* 99.99% uptime

* Load time in 3 seconds

* Response time = <10 seconds

Starting with the computing environment, which of the following should a security engineer recommend to BEST meet the requirements? (Select THREE)

- A. Employing bare-metal loading of applications
- B. Installing a firewall at corporate headquarters
- C. Implementing server clusters
- D. Ensuring technological diversity on critical servers
- E. Lowering storage input/output

- F. Deploying a content delivery network
- G. Implementing RAID on the backup servers
- H. Utilizing redundant power for all developer workstations

Answer: C,E,F

Explanation:

To meet the contractual requirements of the web service provider, a security engineer should recommend the following actions:

Deploying a content delivery network (CDN): A CDN is a distributed system of servers that delivers web content to users based on their geographic location, the origin of the content, and the performance of the network. A CDN can help improve the uptime, load time, and response time of web services by caching content closer to the users, reducing latency and bandwidth consumption. A CDN can also help mitigate distributed denial-of-service (DDoS) attacks by absorbing or filtering malicious traffic before it reaches the origin servers, reducing the impact on the web service availability¹².

Implementing server clusters: A server cluster is a group of servers that work together to provide high availability, scalability, and load balancing for web services. A server cluster can help improve the uptime, load time, and response time of web services by distributing the workload across multiple servers, reducing the risk of single points of failure and performance bottlenecks. A server cluster can also help recover from failures by automatically switching to another server in case of a malfunction³⁴.

Lowering storage input/output (I/O): Storage I/O is the amount of data that can be read from or written to a storage device in a given time. Storage I/O can affect the performance of web services by limiting the speed of data transfer between the servers and the storage devices. Lowering storage I/O can help improve the load time and response time of web services by reducing the latency and congestion of data access. Lowering storage I/O can be achieved by using faster storage devices, such as solid-state drives (SSDs), optimizing the storage layout and configuration, such as using RAID or striping, and caching frequently accessed data in memory⁵.

Installing a firewall at corporate headquarters is not a recommended action to meet the contractual requirements, as it does not directly affect the uptime, load time, or response time of web services. A firewall is a device or software that filters and blocks unwanted network traffic based on predefined rules. A firewall can help improve the security of web services by preventing unauthorized access and attacks, but it may also introduce additional latency and complexity to the network.

Employing bare-metal loading of applications is not a recommended action to meet the contractual requirements, as it does not directly affect the uptime, load time, or response time of web services. Bare-metal loading is a technique that allows applications to run directly on hardware without an operating system or a hypervisor. Bare-metal loading can help improve the performance and efficiency of applications by eliminating the overhead and interference of other software layers, but it may also increase the difficulty and cost of deployment and maintenance.

Implementing RAID on the backup servers is not a recommended action to meet the contractual requirements, as it does not directly affect the uptime, load time, or response time of web services. RAID (redundant array of independent disks) is a technique that combines multiple disks into a logical unit that provides improved performance, reliability, or both. RAID can help improve the availability and security of backup data by protecting it from disk failures or corruption, but it may also introduce additional complexity and overhead to the backup process.

Utilizing redundant power for all developer workstations is not a recommended action to meet the contractual requirements, as it does not directly affect the uptime, load time, or response time of web services. Redundant power is a technique that provides multiple sources of power for an IT system in case one fails. Redundant power can help improve the availability and reliability of developer workstations by preventing them from losing power due to outages or surges, but it may also increase the cost and energy consumption of the system.

Ensuring technological diversity on critical servers is not a recommended action to meet the contractual requirements, as it does not directly affect the uptime, load time, or response time of web services. Technological diversity is a technique that uses different types of hardware, software, or platforms in an IT environment. Technological diversity can help improve resilience by reducing single points of failure and increasing compatibility, but it may also introduce additional complexity and inconsistency to the environment.

Reference: What Is CDN? How Does CDN Work? | Imperva, What Is Server Clustering? | IBM, What Is Server Clustering? | IBM, Server Clustering: What It Is & How It Works | Liquid Web, Storage I/O Performance - an overview | ScienceDirect Topics, [How to Improve Storage I/O Performance | StarWind Blog], [What Is Firewall Security? | Cisco], [What is Bare Metal? | IBM], [What is RAID? | Dell Technologies US], [What Is Redundant Power Supply? | Dell Technologies US], [Technological Diversity - an overview | ScienceDirect Topics]

NEW QUESTION # 296

A security architect is implementing a web application that uses a database back end. Prior to the production, the architect is concerned about the possibility of XSS attacks and wants to identify security controls that could be put in place to prevent these attacks.

Which of the following sources could the architect consult to address this security concern?

- A. OVAL
- B. SDLC

- C. OWASP
- D. IEEE

Answer: C

Explanation:

OWASP is a resource used to identify attack vectors and their mitigations, OVAL is a vulnerability assessment standard OWASP (Open Web Application Security Project) is a source that the security architect could consult to address the security concern of XSS (cross-site scripting) attacks on a web application that uses a database back end. OWASP is a non-profit organization that provides resources and guidance for improving the security of web applications and services. OWASP publishes the OWASP Top 10 list of common web application vulnerabilities and risks, which includes XSS attacks, as well as recommendations and best practices for preventing or mitigating them. SDLC (software development life cycle) is not a source for addressing XSS attacks, but a framework for developing software in an organized and efficient manner. OVAL (Open Vulnerability and Assessment Language) is not a source for addressing XSS attacks, but a standard for expressing system configuration information and vulnerabilities. IEEE (Institute of Electrical and Electronics Engineers) is not a source for addressing XSS attacks, but an organization that develops standards for various fields of engineering and technology. Verified Reference: <https://www.comptia.org/blog/what-is-owasp> <https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 297

An enterprise's Chief Technology Officer (CTO) and Chief Information Security Officer (CISO) are meeting to discuss ongoing capacity and resource planning issues. The enterprise has experienced rapid, massive growth over the last 12 months, and the technology department is stretched thin for resources. A new accounting service is required to support the enterprise's growth, but the only available compute resources that meet the accounting service requirements are on the virtual platform, which is hosting the enterprise's website.

Which of the following should the CISO be MOST concerned about?

- A. A security vulnerability that is exploited on the website could expose the accounting service.
- B. Transferring as many services as possible to a CSP could free up resources.
- C. Poor capacity planning could cause an oversubscribed host, leading to poor performance on the company's website.
- D. The CTO does not have the budget available to purchase required resources and manage growth.

Answer: A

NEW QUESTION # 298

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