

CompTIA

Exam Questions CAS-004

CompTIA Advanced Security Practitioner (CASP+) Exam



NEW QUESTION 1

A company undergoing digital transformation is reviewing the resiliency of a CSP and is concerned about meeting SLA requirements in the event of a CSP incident.

Which of the following would be BEST to proceed with the transformation?

- A. An on-premises solution as a backup
- B. A load balancer with a round-robin configuration
- C. A multicloud provider solution
- D. An active-active solution within the same tenant

Answer: D

NEW QUESTION 2

A security architect works for a manufacturing organization that has many different branch offices. The architect is looking for a way to reduce traffic and ensure the branch offices receive the latest copy of revoked certificates issued by the CA at the organization's headquarters location. The solution must also have the lowest power requirement on the CA.

Which of the following is the BEST solution?

- A. Deploy an RA on each branch office.
- B. Use Delta CRLs at the branches.
- C. Configure clients to use OCSP.
- D. Send the new CRLs by using GPO.

Answer: C

Explanation:

Reference: <https://www.sciencedirect.com/topics/computer-science/revoke-certificate>

NEW QUESTION 3

A high-severity vulnerability was found on a web application and introduced to the enterprise. The vulnerability could allow an unauthorized user to utilize an open-source library to view privileged user information. The enterprise is unwilling to accept the risk, but the developers cannot fix the issue right away. Which of the following should be implemented to reduce the risk to an acceptable level until the issue can be fixed?

- A. Scan the code with a static code analyzer, change privileged user passwords, and provide security training.
- B. Change privileged usernames, review the OS logs, and deploy hardware tokens.
- C. Implement MFA, review the application logs, and deploy a WAF.
- D. Deploy a VPN, configure an official open-source library repository, and perform a full application review for vulnerabilities.

Answer: D

Explanation:

Reference: <https://www.microfocus.com/en-us/what-is/sast>

NEW 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 non-relational 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

NEW QUESTION 5

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. SDLC
- B. OVAL
- C. IEEE
- D. OWASP

Answer: B

Explanation:

Reference: <https://dzone.com/articles/what-is-oval-a-community-driven-vulnerability-mana>

NEW QUESTION 6

A company has decided to purchase a license for software that is used to operate a mission-critical process. The third-party developer is new to the industry but is delivering what the company needs at this time.

Which of the following BEST describes the reason why utilizing a source code escrow will reduce the operational risk to the company if the third party stops supporting the application?

- A. The company will have access to the latest version to continue development.
- B. The company will be able to force the third-party developer to continue support.
- C. The company will be able to manage the third-party developer's development process.
- D. The company will be paid by the third-party developer to hire a new development team.

Answer: B

NEW QUESTION 7

A SOC analyst is reviewing malicious activity on an external, exposed web server. During the investigation, the analyst determines specific traffic is not being logged, and there is no visibility from the WAF for the web application.

Which of the following is the MOST likely cause?

- A. The user agent client is not compatible with the WAF.
- B. A certificate on the WAF is expired.
- C. HTTP traffic is not forwarding to HTTPS to decrypt.
- D. Old, vulnerable cipher suites are still being used.

Answer: B

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/waf-block-http-requests-no-user-agent/>

NEW QUESTION 8

Due to locality and budget constraints, an organization's satellite office has a lower bandwidth allocation than other offices in the organization. As a result, the local security infrastructure staff is assessing architectural options that will help preserve network bandwidth and increase speed to both internal and external resources while not sacrificing threat visibility.

Which of the following would be the BEST option to implement?

- A. Distributed connection allocation
- B. Local caching
- C. Content delivery network
- D. SD-WAN vertical heterogeneity

Answer: C

NEW QUESTION 9

A security engineer estimates the company's popular web application experiences 100 attempted breaches per day. In the past four years, the company's data has been breached two times.

Which of the following should the engineer report as the ARO for successful breaches?

- A. 0.5
- B. 8
- C. 50
- D. 36,500

Answer: A

Explanation:

Reference: <https://blog.netwrix.com/2020/07/24/annual-loss-expectancy-and-quantitative-risk-analysis/>

NEW QUESTION 10

During a system penetration test, a security engineer successfully gained access to a shell on a Linux host as a standard user and wants to elevate the privilege levels.

Which of the following is a valid Linux post-exploitation method to use to accomplish this goal?

- A. Spawn a shell using sudo and an escape string such as `sudo vim -c '!sh'`.
- B. Perform ASIC password cracking on the host.
- C. Read the `/etc/passwd` file to extract the usernames.
- D. Initiate unquoted service path exploits.
- E. Use the UNION operator to extract the database schema.

Answer: C

Explanation:

Reference: <https://docs.rapid7.com/insightvm/elevating-permissions/>

NEW QUESTION 10

An e-commerce company is running a web server on premises, and the resource utilization is usually less than 30%. During the last two holiday seasons, the server experienced performance issues because of too many connections, and several customers were not able to finalize purchase orders. The company is looking to change the server configuration to avoid this kind of performance issue.

Which of the following is the MOST cost-effective solution?

- A. Move the server to a cloud provider.
- B. Change the operating system.
- C. Buy a new server and create an active-active cluster.
- D. Upgrade the server with a new one.

Answer: A

NEW QUESTION 15

A security engineer needs to implement a solution to increase the security posture of user endpoints by providing more visibility and control over local administrator accounts. The endpoint security team is overwhelmed with alerts and wants a solution that has minimal operational burdens. Additionally, the solution must maintain a positive user experience after implementation.

Which of the following is the BEST solution to meet these objectives?

- A. Implement Privileged Access Management (PAM), keep users in the local administrators group, and enable local administrator account monitoring.
- B. Implement PAM, remove users from the local administrators group, and prompt users for explicit approval when elevated privileges are required.
- C. Implement EDR, remove users from the local administrators group, and enable privilege escalation monitoring.
- D. Implement EDR, keep users in the local administrators group, and enable user behavior analytics.

Answer: A

Explanation:

Reference: <https://www.cyberark.com/what-is/privileged-access-management/>

NEW QUESTION 17

A company is moving most of its customer-facing production systems to the cloud-facing production systems to the cloud.

IaaS is the service model being used. The Chief Executive Officer is concerned about the type of encryption available and requires the solution must have the highest level of security.

Which of the following encryption methods should the cloud security engineer select during the implementation phase?

- A. Instance-based
- B. Storage-based
- C. Proxy-based
- D. Array controller-based

Answer: A

NEW QUESTION 18

An organization is referencing NIST best practices for BCP creation while reviewing current internal organizational processes for mission-essential items. Which of the following phases establishes the identification and prioritization of critical systems and functions?

- A. Review a recent gap analysis.
- B. Perform a cost-benefit analysis.
- C. Conduct a business impact analysis.
- D. Develop an exposure factor matrix.

Answer: C

Explanation:

Reference: <https://itsm.ucsf.edu/business-impact-analysis-bia-0>

NEW QUESTION 21

Ransomware encrypted the entire human resources fileshare for a large financial institution. Security operations personnel were unaware of the activity until it was too late to stop it. The restoration will take approximately four hours, and the last backup occurred 48 hours ago. The management team has indicated that the RPO for a disaster recovery event for this data classification is 24 hours.

Based on RPO requirements, which of the following recommendations should the management team make?

- A. Leave the current backup schedule intact and pay the ransom to decrypt the data.
- B. Leave the current backup schedule intact and make the human resources fileshare read-only.
- C. Increase the frequency of backups and create SIEM alerts for IOCs.
- D. Decrease the frequency of backups and pay the ransom to decrypt the data.

Answer: C

NEW QUESTION 23

A security engineer thinks the development team has been hard-coding sensitive environment variables in its code. Which of the following would BEST secure the company's CI/CD pipeline?

- A. Utilizing a trusted secrets manager
- B. Performing DAST on a weekly basis
- C. Introducing the use of container orchestration
- D. Deploying instance tagging

Answer: A

Explanation:

Reference: <https://about.gitlab.com/blog/2021/04/09/demystifying-ci-cd-variables/>

NEW QUESTION 24

A company wants to protect its intellectual property from theft. The company has already applied ACLs and DACs. Which of the following should the company use to prevent data theft?

- A. Watermarking
- B. DRM
- C. NDA
- D. Access logging

Answer: D

NEW QUESTION 27

A company hired a third party to develop software as part of its strategy to be quicker to market. The company's policy outlines the following requirements: The credentials used to publish production software to the container registry should be stored in a secure location.

Access should be restricted to the pipeline service account, without the ability for the third-party developer to read the credentials directly. Which of the following would be the BEST recommendation for storing and monitoring access to these shared credentials?

- A. TPM
- B. Local secure password file
- C. MFA
- D. Key vault

Answer: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows/security/information-protection/tpm/tpm-fundamentals>

NEW QUESTION 28

A customer reports being unable to connect to a website at www.test.com to consume services. The customer notices the web application has the following published cipher suite:

Which of the following is the MOST likely cause of the customer's inability to connect?

- A. Weak ciphers are being used.
- B. The public key should be using ECDSA.
- C. The default should be on port 80.
- D. The server name should be test.com.

Answer: B

Explanation:

Reference: <https://security.stackexchange.com/questions/23383/ssh-key-type-rsa-dsa-ecdsa-are-there-easy-answers-forwhich-to-choose-when>

NEW QUESTION 30

A Chief Information Officer is considering migrating all company data to the cloud to save money on expensive SAN storage. Which of the following is a security concern that will MOST likely need to be addressed during migration?

- A. Latency
- B. Data exposure
- C. Data loss
- D. Data dispersion

Answer: A

NEW QUESTION 35

A security analyst is performing a vulnerability assessment on behalf of a client. The analyst must define what constitutes a risk to the organization. Which of the following should be the analyst's FIRST action?

- A. Create a full inventory of information and data assets.
- B. Ascertain the impact of an attack on the availability of crucial resources.
- C. Determine which security compliance standards should be followed.
- D. Perform a full system penetration test to determine the vulnerabilities.

Answer: C

NEW QUESTION 40

A small company recently developed prototype technology for a military program. The company's security engineer is concerned about potential theft of the newly developed, proprietary information.

Which of the following should the security engineer do to BEST manage the threats proactively?

- A. Join an information-sharing community that is relevant to the company.
- B. Leverage the MITRE ATT&CK framework to map the TTR.
- C. Use OSINT techniques to evaluate and analyze the threats.
- D. Update security awareness training to address new threats, such as best practices for data security.

Answer: D

NEW QUESTION 42

Which of the following is the MOST important security objective when applying cryptography to control messages that tell an ICS how much electrical power to output?

- A. Importing the availability of messages
- B. Ensuring non-repudiation of messages
- C. Enforcing protocol conformance for messages
- D. Assuring the integrity of messages

Answer: D

NEW QUESTION 43

Which of the following is a benefit of using steganalysis techniques in forensic response?

- A. Breaking a symmetric cipher used in secure voice communications
- B. Determining the frequency of unique attacks against DRM-protected media
- C. Maintaining chain of custody for acquired evidence
- D. Identifying least significant bit encoding of data in a .wav file

Answer: D

Explanation:

Reference: https://www.garykessler.net/library/fsc_stego.html

NEW QUESTION 47

An organization is designing a network architecture that must meet the following requirements: Users will only be able to access predefined services. Each user will have a unique allow list defined for access. The system will construct one-to-one subject/object access paths dynamically. Which of the following architectural designs should the organization use to meet these requirements?

- A. Peer-to-peer secure communications enabled by mobile applications
- B. Proxied application data connections enabled by API gateways
- C. Microsegmentation enabled by software-defined networking
- D. VLANs enabled by network infrastructure devices

Answer: C

NEW QUESTION 48

An application server was recently upgraded to prefer TLS 1.3, and now users are unable to connect their clients to the server. Attempts to reproduce the error are confirmed, and clients are reporting the following:
ERR_SSL_VERSION_OR_CIPHER_MISMATCH
Which of the following is MOST likely the root cause?

- A. The client application is testing PFS.
- B. The client application is configured to use ECDHE.
- C. The client application is configured to use RC4.
- D. The client application is configured to use AES-256 in GCM.

Answer: C

Explanation:

Reference: https://kinsta.com/knowledgebase/err_ssl_version_or_cipher_mismatch/

NEW QUESTION 52

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

Answer: A

NEW QUESTION 57

A satellite communications ISP frequently experiences outages and degraded modes of operation over one of its legacy satellite links due to the use of deprecated hardware and software. Three days per week, on average, a contracted company must follow a checklist of 16 different high-latency commands that must be run in serial to restore nominal performance. The ISP wants this process to be automated. Which of the following techniques would be BEST suited for this requirement?

- A. Deploy SOAR utilities and runbooks.
- B. Replace the associated hardware.
- C. Provide the contractors with direct access to satellite telemetry data.
- D. Reduce link latency on the affected ground and satellite segments.

Answer: A

NEW QUESTION 58

DRAG DROP

An organization is planning for disaster recovery and continuity of operations. INSTRUCTIONS

Review the following scenarios and instructions. Match each relevant finding to the affected host.

After associating scenario 3 with the appropriate host(s), click the host to select the appropriate corrective action for that finding. Each finding may be used more than once.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button. Select and Place:

A.

A.

Answer: A

NEW QUESTION 62

After a security incident, a network security engineer discovers that a portion of the company's sensitive external traffic has been redirected through a secondary ISP that is not normally used.

Which of the following would BEST secure the routes while allowing the network to function in the event of a single provider failure?

- A. Disable BGP and implement a single static route for each internal network.
- B. Implement a BGP route reflector.
- C. Implement an inbound BGP prefix list.
- D. Disable BGP and implement OSPF.

Answer: B

NEW QUESTION 65

An organization wants to perform a scan of all its systems against best practice security configurations.

Which of the following SCAP standards, when combined, will enable the organization to view each of the configuration checks in a machine-readable checklist format for fill automation? (Choose two.)

- A. ARF
- B. XCCDF
- C. CPE
- D. CVE
- E. CVSS
- F. OVAL

Answer: BF

Explanation:

Reference: <https://www.govinfo.gov/content/pkg/GOVPUB-C13-9ecd8eae582935c93d7f410e955dabb6/pdf/GOVPUB-C13-9ecd8eae582935c93d7f410e955dabb6.pdf> (p.12)

NEW QUESTION 70

A security engineer needs to recommend a solution that will meet the following requirements: Identify sensitive data in the provider's network

Maintain compliance with company and regulatory guidelines

Detect and respond to insider threats, privileged user threats, and compromised accounts Enforce datacentric security, such as encryption, tokenization, and access control Which of the following solutions should the security engineer recommend to address these requirements?

- A. WAF
- B. CASB
- C. SWG
- D. DLP

Answer: A

NEW QUESTION 71

A small business requires a low-cost approach to theft detection for the audio recordings it produces and sells. Which of the following techniques will MOST likely meet the business's needs?

- A. Performing deep-packet inspection of all digital audio files
- B. Adding identifying filesystem metadata to the digital audio files
- C. Implementing steganography
- D. Purchasing and installing a DRM suite

Answer: C

Explanation:

Reference: <https://portswigger.net/daily-swig/what-is-steganography-a-complete-guide-to-the-ancient-art-of-concealingmessages>

NEW QUESTION 73

A health company has reached the physical and computing capabilities in its datacenter, but the computing demand continues to increase. The infrastructure is fully virtualized and runs custom and commercial healthcare application that process sensitive health and payment information .

Which of the following should the company implement to ensure it can meet the computing demand while complying with healthcare standard for virtualization and cloud computing?

- A. Hybrid IaaS solution in a single-tenancy cloud
- B. PaaS solution in a multi-tenancy cloud
- C. SaaS solution in a community cloud
- D. Private SaaS solution in a single tenancy cloud.

Answer: D

NEW QUESTION 74

Over the last 90 days, many storage services have been exposed in the cloud services environments, and the security team does not have the ability to see is creating these instances. Shadow IT is creating data services and instances faster than the small security team can keep up with them. The Chief information security Officer (CISO) has asked the security officer (CISO) has asked the security lead architect to architect to recommend solutions to this problem.

Which of the following BEST addresses the problem best address the problem with the least amount of administrative effort?

- A. Compile a list of firewall requests and compare them against interesting cloud services.
- B. Implement a CASB solution and track cloud service use cases for greater visibility.
- C. Implement a user-behavior system to associate user events and cloud service creation events.
- D. Capture all logs and feed them to a SIEM and then for cloud service events

Answer: C

NEW QUESTION 75

The Chief information Officer (CIO) wants to establish a non-binding agreement with a third party that outlines the objectives of the mutual arrangement dealing with data transfers between both organizations before establishing a formal partnership .

Which of the following would MOST likely be used?

- A. MOU
- B. OLA
- C. NDA
- D. SLA

Answer: A

NEW QUESTION 76

A developer implemented the following code snippet.

Which of the following vulnerabilities does the code snippet resolve?

- A. SQL inject
- B. Buffer overflow
- C. Missing session limit
- D. Information leakage

Answer: D

NEW QUESTION 77

Ann, a CIRT member, is conducting incident response activities on a network that consists of several hundred virtual servers and thousands of endpoints and users. The network generates more than 10,000 log messages per second. The enterprise belongs to a large, web-based cryptocurrency startup, Ann has distilled the relevant information into an easily digestible report for executive management. However, she still needs to collect evidence of the intrusion that caused the incident .

Which of the following should Ann use to gather the required information?

- A. Traffic interceptor log analysis
- B. Log reduction and visualization tools
- C. Proof of work analysis
- D. Ledger analysis software

Answer: B

NEW QUESTION 78

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