



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

CompTIA Advanced Security Practitioner

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**QUESTION 1**

A new internal network segmentation solution will be implemented into the enterprise that consists of 200 internal firewalls. As part of running a pilot exercise, it was determined that it takes three changes to deploy a new application onto the network before it is operational. Security now has a significant affect on overall availability.

Which of the following would be the FIRST process to perform as a result of these findings?

- A. Lower the SLA to a more tolerable level and perform a risk assessment to see if the solution could be met by another solution. Reuse the firewall infrastructure on other projects.
- B. Perform a cost benefit analysis and implement the solution as it stands as long as the risks are understood by the business owners around the availability issues. Decrease the current SLA expectations to match the new solution.
- C. Engage internal auditors to perform a review of the project to determine why and how the project did not meet the security requirements. As part of the review ask them to review the control effectiveness.
- D. Review to determine if control effectiveness is in line with the complexity of the solution. Determine if the requirements can be met with a simpler solution.

Correct Answer: D

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**QUESTION 2**

A process allows a LUN to be available to some hosts and unavailable to others. Which of the following causes such a process to become vulnerable?

- A. LUN masking
- B. Data injection
- C. Data fragmentation
- D. Moving the HBA

Correct Answer: D

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**QUESTION 3**

An administrator has four virtual guests on a host server. Two of the servers are corporate SQL servers, one is a corporate mail server, and one is a testing web server for a small group of developers. The administrator is experiencing difficulty connecting to the host server during peak network usage times.

Which of the following would allow the administrator to securely connect to and manage the host server during peak usage times?

- A. Increase the virtual RAM allocation to high I/O servers.



- B. Install a management NIC and dedicated virtual switch.
- C. Configure the high I/O virtual servers to use FCoE rather than iSCSI.
- D. Move the guest web server to another dedicated host.

Correct Answer: B

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#### QUESTION 4

Company XYZ is building a new customer facing website which must access some corporate resources. The company already has an internal facing web server and a separate server supporting an extranet to which suppliers have access. The extranet web server is located in a network DMZ. The internal website is hosted on a laptop on the internal corporate network. The internal network does not restrict traffic between any internal hosts.

Which of the following locations will BEST secure both the intranet and the customer facing website?

- A. The existing internal network segment
- B. Dedicated DMZ network segments
- C. The existing extranet network segment
- D. A third-party web hosting company

Correct Answer: B

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#### QUESTION 5

An administrator is reviewing a recent security audit and determines that two users in finance also have access to the human resource data. One of those users fills in for any HR employees on vacation, the other user only works in finance. Which of the following policies is being violated by the finance user according to the audit results?

- A. Mandatory vacation
- B. Non-disclosure
- C. Job rotation
- D. Least privilege

Correct Answer: D

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#### QUESTION 6



The risk manager has requested a security solution that is centrally managed, can easily be updated, and protects end users' workstations from both known and unknown malicious attacks when connected to either the office or home network.

Which of the following would BEST meet this requirement?

- A. HIPS
- B. UTM
- C. Antivirus
- D. NIPS
- E. DLP

Correct Answer: A

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#### QUESTION 7

Company XYZ has employed a consultant to perform a controls assessment of the HR system, backend business operations, and the SCADA system used in the factory.

Which of the following correctly states the risk management options that the consultant should use during the assessment?

- A. Risk reduction, risk sharing, risk retention, and risk acceptance.
- B. Avoid, transfer, mitigate, and accept.
- C. Risk likelihood, asset value, and threat level.
- D. Calculate risk by determining technical likelihood and potential business impact.

Correct Answer: B

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#### QUESTION 8

A financial institution has decided to purchase a very expensive resource management system and has selected the product and vendor. The vendor is experiencing some minor, but public, legal issues. Senior management has some concerns on maintaining this system should the vendor go out of business.

Which of the following should the Chief Information Security Officer (CISO) recommend to BEST limit exposure?

- A. Include a source code escrow clause in the contract for this system.
- B. Require proof-of-insurance by the vendor in the RFP for this system.
- C. Include a penalty clause in the contract for this system.



D. Require on-going maintenance as part of the SLA for this system.

Correct Answer: A

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#### QUESTION 9

In order for a company to boost profits by implementing cost savings on non-core business activities, the IT manager has sought approval for the corporate email system to be hosted in the cloud. The compliance officer has been tasked with ensuring that data lifecycle issues are taken into account.

Which of the following BEST covers the data lifecycle end-to-end?

- A. Creation and secure destruction of mail accounts, emails, and calendar items
- B. Information classification, vendor selection, and the RFP process
- C. Data provisioning, processing, in transit, at rest, and de-provisioning
- D. Securing virtual environments, appliances, and equipment that handle email

Correct Answer: C

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#### QUESTION 10

After a security incident, an administrator revokes the SSL certificate for their web server `www.company.com`. Later, users begin to inform the help desk that a few other servers are generating certificate errors: `ftp.company.com`, `mail.company.com`, and `partners.company.com`.

Which of the following is MOST likely the reason for this?

- A. Each of the servers used the same EV certificate.
- B. The servers used a wildcard certificate.
- C. The web server was the CA for the domain.
- D. Revoking a certificate can only be done at the domain level.

Correct Answer: B

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#### QUESTION 11

During a new desktop refresh, all hosts are hardened at the OS level before deployment to comply with policy. Six months later, the company is audited for compliance to regulations. The audit discovers that 40% of the desktops do not meet requirements.



Which of the following is the cause of the noncompliance?

- A. The devices are being modified and settings are being overridden in production.
- B. The patch management system is causing the devices to be noncompliant after issuing the latest patches.
- C. The desktop applications were configured with the default username and password.
- D. 40% of the devices have been compromised.

Correct Answer: A

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## QUESTION 12

The Chief Information Officer (CIO) of Company XYZ has returned from a large IT conference where one of the topics was defending against zero day attacks - specifically deploying third party patches to vulnerable software. Two months prior, the majority of the company systems were compromised because of a zero day exploit. Due to budget constraints the company only has operational systems. The CIO wants the Security Manager to research the use of these patches.

Which of the following is the GREATEST concern with the use of a third party patch to mitigate another un-patched vulnerability?

- A. The company does not have an adequate test environment to validate the impact of the third party patch, introducing unknown risks.
- B. The third party patch may introduce additional unforeseen risks and void the software licenses for the patched applications.
- C. The company's patch management solution only supports patches and updates released directly by the vendor.
- D. Another period of vulnerability will be introduced because of the need to remove the third party patch prior to installing any vendor patch.

Correct Answer: A

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