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**Vendor:**CompTIA

**Exam Code:**CAS-001

**Exam Name:**CompTIA Advanced Security Practitioner

**Version:**Demo

## QUESTION 1

Two universities are making their 802.11n wireless networks available to the other university's students. The infrastructure will pass the student's credentials back to the home school for authentication via the Internet.

The requirements are:

Mutual authentication of clients and authentication server

The design should not limit connection speeds

Authentication must be delegated to the home school No passwords should be sent unencrypted

The following design was implemented:

WPA2 Enterprise using EAP-PEAP-MSCHAPv2 will be used for wireless security

RADIUS proxy servers will be used to forward authentication requests to the home school

The RADIUS servers will have certificates from a common public certificate authority

A strong shared secret will be used for RADIUS server authentication

Which of the following security considerations should be added to the design?

- A. The transport layer between the RADIUS servers should be secured
- B. WPA Enterprise should be used to decrease the network overhead
- C. The RADIUS servers should have local accounts for the visiting students
- D. Students should be given certificates to use for authentication to the network

Correct Answer: A

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## QUESTION 2

The security administrator is receiving numerous alerts from the internal IDS of a possible Conficker infection spreading through the network via the Windows file sharing services. Given the size of the company which deploys over 20,000 workstations and 1,000 servers, the security engineer believes that the best course of action is to block the file sharing service across the organization by placing ACLs on the internal routers.

Which of the following should the security administrator do before applying the ACL?

- A. Quickly research best practices with respect to stopping Conficker infections and implement the solution.
- B. Consult with the rest of the security team and get approval on the solution by all the team members and the team manager.
- C. Apply the ACL immediately since this is an emergency that could lead to a widespread data compromise.

D. Call an emergency change management meeting to ensure the ACL will not impact core business functions.

Correct Answer: D

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### QUESTION 3

The Chief Executive Officer (CEO) of a corporation purchased the latest mobile device and wants to connect it to the internal network. The Chief Information Security Officer (CISO) was told to research and recommend how to secure this device.

Which of the following should be implemented, keeping in mind that the CEO has stated that this access is required?

A. Mitigate and Transfer

B. Accept and Transfer

C. Transfer and Avoid

D. Avoid and Mitigate

Correct Answer: A

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### QUESTION 4

A new web based application has been developed and deployed in production. A security engineer decides to use an HTTP interceptor for testing the application. Which of the following problems would MOST likely be uncovered by this tool?

A. The tool could show that input validation was only enabled on the client side

B. The tool could enumerate backend SQL database table and column names

C. The tool could force HTTP methods such as DELETE that the server has denied

D. The tool could fuzz the application to determine where memory leaks occur

Correct Answer: A

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### QUESTION 5

A company is in the process of implementing a new front end user interface for its customers, the goal is to provide them with more self service functionality. The application has been written by developers over the last six months and the project is currently in the test phase.

Which of the following security activities should be implemented as part of the SDL in order to provide the MOST security coverage over the solution? (Select TWO).

A. Perform unit testing of the binary code

- B. Perform code review over a sampling of the front end source code
- C. Perform black box penetration testing over the solution
- D. Perform grey box penetration testing over the solution
- E. Perform static code review over the front end source code

Correct Answer: DE

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#### **QUESTION 6**

A company currently does not use any type of authentication or authorization service for remote access. The new security policy states that all remote access must be locked down to only authorized personnel. The policy also dictates that only authorized external networks will be allowed to access certain internal resources.

Which of the following would MOST likely need to be implemented and configured on the company's perimeter network to comply with the new security policy? (Select TWO).

- A. VPN concentrator
- B. Firewall
- C. Proxy server
- D. WAP
- E. Layer 2 switch

Correct Answer: AB

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#### **QUESTION 7**

A storage administrator would like to make storage available to some hosts and unavailable to other hosts. Which of the following would be used?

- A. LUN masking
- B. Deduplication
- C. Multipathing
- D. Snapshots

Correct Answer: A

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#### **QUESTION 8**

A large financial company has a team of security-focused architects and designers that contribute into broader IT architecture and design solutions. Concerns have been raised due to the security contributions having varying levels of quality and consistency. It has been agreed that a more formalized methodology is needed that can take business drivers, capabilities, baselines, and re-usable patterns into account.

Which of the following would BEST help to achieve these objectives?

- A. Construct a library of re-usable security patterns
- B. Construct a security control library
- C. Introduce an ESA framework
- D. Include SRTM in the SDLC

Correct Answer: C

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#### **QUESTION 9**

The Chief Information Officer (CIO) comes to the security manager and asks what can be done to reduce the potential of sensitive data being emailed out of the company. Which of the following is an active security measure to protect against this threat?

- A. Require a digital signature on all outgoing emails.
- B. Sanitize outgoing content.
- C. Implement a data classification policy.
- D. Implement a SPAM filter.

Correct Answer: B

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#### **QUESTION 10**

Which of the following authentication types is used primarily to authenticate users through the use of tickets?

- A. LDAP
- B. RADIUS
- C. TACACS+
- D. Kerberos

Correct Answer: D

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**QUESTION 11**

A large organization has gone through several mergers, acquisitions, and de-mergers over the past decade. As a result, the internal networks have been integrated but have complex dependencies and interactions between systems. Better integration is needed in order to simplify the underlying complexity.

Which of the following is the MOST suitable integration platform to provide event-driven and standards-based secure software architecture?

- A. Service oriented architecture (SOA)
- B. Federated identities
- C. Object request broker (ORB)
- D. Enterprise service bus (ESB)

Correct Answer: D

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**QUESTION 12**

Which of the following protocols only facilitates access control?

- A. XACML
- B. Kerberos
- C. SPML
- D. SAML

Correct Answer: A

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