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**QUESTION 1**

An online banking application has had its source code updated and is soon to be re-launched. The underlying infrastructure has not been changed. In order to ensure that the application has an appropriate security posture, several security-related activities are required.

Which of the following security activities should be performed to provide an appropriate level of security testing coverage? (Select TWO).

- A. Penetration test across the application with accounts of varying access levels (i.e. non- authenticated, authenticated, and administrative users).
- B. Code review across critical modules to ensure that security defects, Trojans, and backdoors are not present.
- C. Vulnerability assessment across all of the online banking servers to ascertain host and container configuration lock-down and patch levels.
- D. Fingerprinting across all of the online banking servers to ascertain open ports and services.
- E. Black box code review across the entire code base to ensure that there are no security defects present.

Correct Answer: AB

QUESTION 2

As part of the ongoing information security plan in a large software development company, the Chief Information officer (CIO) has decided to review and update the company's privacy policies and procedures to reflect the changing business environment and business requirements.

Training and awareness of the new policies and procedures has been incorporated into the security awareness program which should be:

- A. presented by top level management to only data handling staff.
- B. customized for the various departments and staff roles.
- C. technical in nature to ensure all development staff understand the procedures.
- D. used to promote the importance of the security department.

Correct Answer: B

QUESTION 3

A general insurance company wants to set up a new online business. The requirements are that the solution needs to be:

Extendable for new products to be developed and added Externally facing for customers and business partners to login Usable and manageable

Be able to integrate seamlessly with third parties for non core functions such as document printing



Secure to protect customer's personal information and credit card information during transport and at rest

The conceptual solution architecture has specified that the application will consist of a traditional three tiered architecture for the front end components, an ESB to provide services, data transformation capability and legacy system

integration and a web services gateway.

Which of the following security components will BEST meet the above requirements and fit into the solution architecture? (Select TWO).

- A. Implement WS-Security for services authentication and XACML for service authorization.
- B. Use end-to-end application level encryption to encrypt all fields and store them encrypted in the database.
- C. Implement a certificate based solution on a smart card in combination with a PIN to provide authentication and authorization of users.
- D. Implement WS-Security as a federated single sign-on solution for authentication authorization of users.
- E. Implement SSL encryption for all sensitive data flows and encryption of passwords of the data at rest.
- F. Use application level encryption to encrypt sensitive fields, SSL encryption on sensitive flows, and database encryption for sensitive data storage.

Correct Answer: AF

QUESTION 4

When Company A and Company B merged, the network security administrator for Company A was tasked with joining the two networks. Which of the following should be done FIRST?

- A. Implement a unified IPv6 addressing scheme on the entire network.
- B. Conduct a penetration test of Company B's network.
- C. Perform a vulnerability assessment on Company B's network.
- D. Perform a peer code review on Company B's application.

Correct Answer: C

QUESTION 5

An IT administrator wants to restrict DNS zone transfers between two geographically dispersed, external company DNS name servers, and has decided to use TSIG.

Which of the following are critical when using TSIG? (Select TWO).

- A. Periodic key changes once the initial keys are established between the DNS name servers.



- B. Secure exchange of the key values between the two DNS name servers.
- C. A secure NTP source used by both DNS name servers to avoid message rejection.
- D. DNS configuration files on both DNS name servers must be identically encrypted.
- E. AES encryption with a SHA1 hash must be used to encrypt the configuration files on both DNS name servers.

Correct Answer: BC

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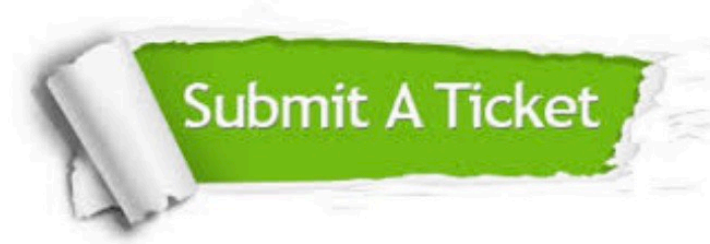
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