

# SECURE-SOFTWARE-DESIGN<sup>Q&As</sup>

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## QUESTION 1

Which DREAD category has a risk rating based on the threat exploit's potential level of harm?

- A. Damage potential
- B. Reproducibility
- C. Affected users
- D. Exploitability

Correct Answer: A

Reference: <https://www.eccouncil.org/cybersecurity-exchange/threat-intelligence/dread-threat-modeling-intro/>

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## QUESTION 2

Credit card numbers are encrypted when stored in the database but are automatically decrypted when data is fetched. The testing tool intercepted the GET response, and testers were able to view credit card numbers as clear text. How should the organization remediate this vulnerability?

- A. Never cache sensitive data
- B. Ensure there is an audit trail for all sensitive transactions
- C. Ensure all data in transit is encrypted
- D. Enforce role-based authorization controls in all application layers

Correct Answer: C

Reference: <https://owasp.org/www-project-proactive-controls/v3/en/c8-protect-data-everywhere>

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## QUESTION 3

Which question reflects the security change management component of the change management process?

- A. How critical is the software to meeting the customers

Correct Answer: D

Reference: <https://www.forbes.com/sites/forbestechcouncil/2021/04/12/change-management-in-it-security-and-risk-management/>

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## QUESTION 4

Which privacy impact statement requirement type defines how personal information will be protected when authorized or

independent external entities are involved?

- A. Personal information retention requirements
- B. User controls requirements
- C. Third party requirements
- D. Data integrity requirements

Correct Answer: C

Reference: <https://www.oaic.gov.au/privacy/privacy-guidance-for-organisations-and-government-agencies/privacy-impact-assessments/guide-to-undertaking-privacy-impact-assessments>

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## QUESTION 5

Recent vulnerability scans discovered that the organization's production web servers were responding to ping requests with server type, version, and operating system, which hackers could leverage to plan attacks. How should the organization remediate this vulnerability?

- A. Ensure servers are configured to return as little information as possible to network requests
- B. Ensure servers are regularly updated with the latest security patches
- C. Always uninstall or disable features that are not required
- D. Access to configuration files is limited to administrators

Correct Answer: A

## QUESTION 6

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's claims intake component. The base score of the vulnerability was 3.5 and changed to 5.9 after adjusting temporal and environmental metrics.

Which rating would CVSS assign this vulnerability?

- A. Critical severity
- B. High severity
- C. Low severity
- D. Medium severity

Correct Answer: D

Reference: <https://nvd.nist.gov/vuln-metrics/cvss>

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## QUESTION 7

Which threat modeling step collects exploitable weaknesses within the product?

- A. Analyze the target
- B. Rate threats
- C. Identify and document threats
- D. Set the scope

Correct Answer: C

Reference: [https://owasp.org/www-community/Threat\\_Modeling\\_Process](https://owasp.org/www-community/Threat_Modeling_Process)

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## QUESTION 8

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's customer portal. The base score of the vulnerability was

9.9 and changed to 8.0 after adjusting temporal and environmental metrics. Which rating would CVSS assign this vulnerability?

- A. Medium severity
- B. Critical severity
- C. Low severity
- D. High severity

Correct Answer: D

Reference: <https://nvd.nist.gov/vuln-metrics/cvss>

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## QUESTION 9

Features have been developed and fully tested, the production environment has been created, and leadership has approved the release of the new product. Technicians have scheduled a time and date to make the product available to customers.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Maintenance
- B. Deployment
- C. End of life

D. Testing

Correct Answer: B

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## QUESTION 10

The software security team prepared a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute. Which design and development deliverable did the team prepare?

- A. Design security review
- B. Updated threat modeling artifacts
- C. Privacy implementation assessment results
- D. Security test plans

Correct Answer: D

Reference: <https://learn.microsoft.com/en-us/compliance/assurance/assurance-microsoft-security-development-lifecycle>

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## QUESTION 11

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the user authentication component of the company's new product. The base score of the vulnerability was 8.3 and changed to 9.4 after adjusting temporal and environmental metrics.

Which rating would CVSS assign this vulnerability?

- A. High severity
- B. Critical severity
- C. Medium severity
- D. Low severity

Correct Answer: B

Reference: <https://nvd.nist.gov/vuln-metrics/cvss>

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## QUESTION 12

Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Fuzz testing

- B. Dynamic code analysis
- C. Manual code review
- D. Static code analysis

Correct Answer: C

Reference: <https://www.pwc.com/gx/en/issues/cybersecurity/digital-trust-insights-2021/cyber-talent-workforce.html>

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## QUESTION 13

Which software control test examines the internal logical structures of a program and steps through the code line by line to analyze the program for potential errors?

- A. White box testing
- B. Reasonableness testing
- C. Black box testing
- D. Dynamic testing

Correct Answer: A

Reference: <https://www.theknowledgeacademy.com/blog/white-box-testing-in-software-engineering/>

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## QUESTION 14

A company is moving forward with a new product. Product scope has been determined, teams have formed, and backlogs have been created. Developers are actively writing code for the new product, with one team concentrating on delivering data via REST services, one team working on the mobile apps, and a third team writing the web application.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Deployment
- B. Design
- C. Implementation
- D. Requirements

Correct Answer: C

Reference:

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## QUESTION 15

Which SDL security goal is defined as ensuring timely and reliable access to and use of information?

A. Information security

B. Confidentiality

C. Availability

D. Integrity

Correct Answer: C

Reference: [https://access.redhat.com/articles/red\\_hat\\_sdl](https://access.redhat.com/articles/red_hat_sdl)

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