

Secure Software Engineering (Merged - SEZG566/SSZG566)(S1-22)

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Finish attempt ...

Question 1

Not yet answered

Marked out of 1.00

Flag question

Buffer-overflow attack can take place if machine can execute code that resides in the _____ segment.

Select one:

- ☐ a. Kernel
- ☐ b. Text
- ☐ c. None of these
- ☒ d. Stack

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Question 2

Not yet answered

Marked out of 1.00

Flag question

Applications developed in which programming languages are likely to have buffer-overflow vulnerability?

Select one:

- ☐ a. C, Ruby
- ☐ b. Python, Ruby
- ☒ c. C, C++
- ☐ d. C++, C#

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Question 3

Not yet answered

Marked out of 1.00

Flag question

Which of the following is not an implication of the design principle - Reluctance to Trust

Select one:

- ☐ a. Coding standards are inadequate
- ☐ b. Users are susceptible to social engineering attacks
- ☐ c. Environment is expected to be insecure
- ☐ d. Input may be malformed

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Question 4

Not yet answered

Marked out of 1.00

Flag question

What is the common cause of buffer over flows, cross-site scripting, SQL injection and format string attacks?

Select one:

- ☒ a. Unvalidated input
- ☐ b. Lack of authentication
- ☐ c. Insecure configuration management
- ☐ d. Improper error handling

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Question 5

Not yet answered
Marked out of 1.00

Flag question

What does "White List" data validation means?

Select one:

- ☐ a. Data is validated against a list of values that are known to be invalid
- ☐ b. Data is validated against a list of values that are known to be valid
- ☐ c. None of these
- ☐ d. Parsing Input for special characters

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Finish attempt ...

Question 6

Not yet answered
Marked out of 1.00

Flag question

In what way Buffer Overflow is more troublesome compared to Arc Injection?

Select one:

- ☐ a. Memory based protection schemes do not work
- ☐ b. A small overflow is adequate
- ☒ c. Attacker can use any payload
- ☐ d. Can avoid detection

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Q-6 Answer is doubtful, please verify and confirm the correct answer.

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Finish attempt ...

Question 7

Not yet answered
Marked out of 1.00

Flag question

Which of the following is an example of black box testing?

Select one:

- ☐ a. Network security testing
- ☐ b. Data flow analysis
- ☐ c. Trust boundary mapping
- ☐ d. Code-based fault injection

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Finish attempt ...

Question 8

Not yet answered
Marked out of 1.00

Flag question

Which of the following pattern enables an algorithm's behavior to be selected based on security credentials?

Select one:

- ☐ a. Secure Builder
- ☐ b. Secure State Machine
- ☐ c. Secure Factory
- ☐ d. Secure Strategy

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Question 9

Not yet answered
Marked out of 1.00

Flag question

Which of the following enables access bypassing all security mechanisms?

Select one:

- ☐ a. Phishing
- ☐ b. Spam
- ☒ c. Backdoor
- ☐ d. Trojan Horse

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Question 10

Not yet answered
Marked out of 1.00

Flag question

Which of the following is not included in documenting an Attack Pattern?

Select one:

- ☐ a. Attack prerequisite
- ☐ b. Vector of attack
- ☐ c. Attacker Skill
- ☐ d. Asset at risk

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Question 11

Answer saved
Marked out of 1.00

Flag question

Which of the following is not a type of fuzz testing?

Select one:

- ☒ a. Protocol-based fuzzing
- ☐ b. Logic-based fuzzing
- ☐ c. Format-based fuzzing
- ☐ d. State-based fuzzing

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Question 12

Answer saved
Marked out of 1.00

Flag question

Which of the following is a way to build dynamic SQL statements?

Select one:

- ☐ a. Writing a query with parameters
- ☐ b. Executing SQL inside programs using EXEC
- ☒ c. All of these
- ☐ d. Using stored procedure with parameters

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Finish attempt ...

Question 13

Not yet answered

Marked out of 1.00

Flag question

Which of the following is not a compile-time defense against buffer overflow?

Select one:

- ☐ a. Randomize address space
- ☐ b. Use of safe libraries
- ☐ c. None of these
- ☐ d. Safe coding standards

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Question 14

Answer saved

Marked out of 1.00

Flag question

SQL injection consists of

Select one:

- ☐ a. Fuzzing inputs to application
- ☐ b. Entering invalid data through SQL queries
- ☐ c. Attempting an elevation of privilege
- ☒ d. Entering SQL statements instead of legitimate data

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Question 15

Answer saved

Marked out of 1.00

Flag question

What will be output from the following C code?

```
...  
int i=7, j=4;  
printf("%d %d %d", i, j);  
...
```

Select one:

- ☐ a. 7 4 4
- ☐ b. 4 7 7
- ☐ c. Compile-time error
- ☒ d. 7 4 memory contents

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Question 16

Not yet answered
Marked out of 1.00

Flag question

Which of this Nmap do not check?

Select one:

- ☐ a. Services running on different hosts
- ☐ b. Firewall in use
- ☐ c. OS version
- ☐ d. Anti-virus software

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Question 17

Not yet answered
Marked out of 1.00

Flag question

Which of the following is not among design principles for software security?

Select one:

- ☐ a. Defense in Depth
- ☐ b. Separation of Privileges
- ☐ c. Focus on Assets
- ☐ d. Complete Mediation

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Question 18

Not yet answered
Marked out of 1.00

Flag question

Which of the following can be considered as a possible solutions for SQL injection vulnerability?

Select one:

- ☐ a. Secure cookies
- ☐ b. Data Validation
- ☐ c. Exception handling
- ☐ d. Encryption

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Question 19

Not yet answered
Marked out of 1.00

Flag question

Which of the following tools is most scalable for checking security posture of a large organization?

Select one:

- ☐ a. Application testing proxies
- ☐ b. Host-based tools
- ☐ c. Application scanning tools
- ☐ d. Network-based tools

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Question 20

Not yet answered

Marked out of 1.00

Flag question

Which of the following is a safe conversion?

Select one:

- ☐ a. unsigned short to short
- ☐ b. typecasting a pointer
- ☐ c. unsigned short to long
- ☐ d. long to char

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Pending answers: 3,5,7,8,10,13,16 to 20