

Preparation for the Application Security Java Exam

Are you gearing up for the **Application Security Java exam**? This guide will help you navigate the crucial topics you'll need to understand. Let's dive into the essentials of *application security*, *Java security*, *secure coding practices*, *threat modeling*, *vulnerability assessment*, and *secure software development*. For further resources, you can visit [this link](#).

Understanding Application Security

Application security involves measures taken to enhance the security of an application. It's essential for preventing *data breaches* and ensuring *user privacy*. Familiarize yourself with core concepts in application security, as this will form the foundation of your exam preparation.

Getting to Grips with Java Security

Java security is a vital area of focus for developers. It entails the protection of Java applications through secure coding techniques and best practices. Knowledge of Java security features, like *access control* and *data encryption*, is vital.

Secure Coding Practices

To ace the exam, you must understand **secure coding practices**. These practices help avoid common vulnerabilities like *SQL injection* and *cross-site scripting* (XSS). Remember, secure coding is not an afterthought; it should be integrated into the *software development lifecycle*.

Understanding Threat Modeling

Threat modeling enables you to identify and address potential security threats in your applications. It's essential to understand methods like *STRIDE* and *PASTA*. Being able to think like an attacker will help you secure your applications more effectively.

Performing Vulnerability Assessments

Vulnerability assessments are critical for understanding the security posture of your application. Familiarize yourself with tools and techniques to identify vulnerabilities. This

knowledge can greatly enhance your ability to safeguard applications. Additionally, check out [this resource](#) for more insights.

Secure Software Development Lifecycle

The **secure software development lifecycle (SSDLC)** incorporates security at every stage of software development. Understand the phases from planning to deployment, and how security practices can be applied at each step to mitigate risks.

Resources for Exam Preparation

- Study books focusing on application security and Java programming.
- Online courses and tutorials that provide hands-on coding exercises.
- Join forums or study groups where you can discuss topics with peers.

Final Thoughts

Preparing for the **Application Security Java exam** requires a solid understanding of a variety of topics. Focus on the key areas highlighted in this guide, dive deep into secure coding practices, and regularly test your knowledge. Good luck on your journey to becoming a **Certified Application Security Engineer!**

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Question: 1

Sam, an application security engineer working in INFRA INC., was conducting a secure code review on an application developed in Jav

a. He found that the developer has used a piece of code as shown in the following screenshot. Identify the security mistakes that the developer has coded?



```
78
79 <%!public boolean validateUserName() {
80
81 String[] userInput =
82 new String[] { "<SCRIPT>", "SELECT", "UNION", "WHERE", "</SCRIPT>", ">", "<" };
83
84 for (String item : userInput) {
85 if (uname.contains(item)) {
86 return false;
87 }
88 }
89 return true;
90 }%>
```

- A. He is attempting to use client-side validation
- B. He is attempting to use whitelist input validation approach
- C. He is attempting to use regular expression for validation
- D. He is attempting to use blacklist input validation approach

Answer: D

Explanation:

Question: 2

Identify the type of attack depicted in the following figure.



- A. SQL Injection Attacks
- B. Session Fixation Attack
- C. Parameter Tampering Attack
- D. Denial-of-Service Attack

Answer: C

Explanation:

Question: 3

According to secure logging practices, programmers should ensure that logging processes are not disrupted by:

- A. Catching incorrect exceptions
- B. Multiple catching of incorrect exceptions
- C. Re-throwing incorrect exceptions
- D. Throwing incorrect exceptions

Answer: D

Explanation:

Question: 4

Which of the threat classification model is used to classify threats during threat modeling process?

- A. RED
- B. STRIDE
- C. DREAD
- D. SMART

Answer: B

Explanation:

Question: 5

Which line of the following example of Java Code can make application vulnerable to a session attack?

```
1:  Public class storecookie extends HttpServlet {  
2:  Public void doGet () {  
3:  Cookie ssnCookie = new Cookie ("Session Cookie"+ value);  
4:  ssnCookie.setMaxAge (3600);  
5:  response.addCookie (ssnCookie);  
6:  }
```

- A. Line No. 1
- B. Line No. 3
- C. Line No. 4
- D. Line No. 5

Answer: B

Explanation:

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