Securing Java/ JEE Web Applications (TT8320-J)

Varighet: 4 Days   Kurskode: GK1123

Beskrivelse:

Securing Java Web Applications is a lab-intensive, hands-on Java / JEE security training course, essential for experienced enterprise developers who need to produce secure JEE-based web applications. In addition to teaching basic programming skills, this course digs deep into sound processes and practices that apply to the entire software development lifecycle. In this course, students thoroughly examine best practices for defensively coding JEE web applications, including XML processing and web services. Students will repeatedly attack and then defend various assets associated with a fully-functional web application. This hands-on approach drives home the mechanics of how to secure JEE web applications in the most practical of terms.

Målgruppe:

This is an intermediate -level JEE / web services programming course, designed for developers who wish to get up and running on developing well defended software applications. This course may be customized to suit your team's unique objectives.

Agenda:

- Understand potential sources for untrusted data

- Understand the consequences for not properly handling untrusted data such as denial of service, cross-site scripting, and injections

- Be able to test web applications with various attack techniques to determine the existence of and effectiveness of layered defenses

- Prevent and defend the many potential vulnerabilities associated with untrusted data

- Understand the vulnerabilities of associated with authentication and authorization

- Be able to detect, attack, and implement defenses for authentication and authorization functionality and services

- Understand the dangers and mechanisms behind Cross-Site Scripting (XSS) and Injection attacks

- Be able to detect, attack, and implement defenses against XSS and Injection attacks

- Understand the concepts and terminology behind defensive, secure, coding

- Understand the use of Threat Modeling as a tool in identifying software vulnerabilities based on realistic threats against meaningful assets

- Perform both static code reviews and dynamic application testing to uncover vulnerabilities in Java-based web applications

- Design and develop strong, robust authentication and authorization implementations within the context of JEE

- Understand the fundamentals of XML Digital Signature and XML Encryption as well as how they are used within the web services arena

- Be able to detect, attack, and implement defenses for XML-based services and functionality

- Understand techniques and measures that can used to harden web and application servers as well as other components in your infrastructure

Forkunnskaper:

Students should have an understanding and a working knowledge in the following topics, or attend these courses as a pre-requisite:

- TT2100 Mastering Java for OO Developers or TT2120 Java and OO Essentials for COBOL and Mainframe Developers or TT5140 Java Web Essentials for OO Developers
- TT5100 Mastering JEE Web Application Development

Innhold:

Ytterligere informasjon:

For mer informasjon eller kursbooking, vennligst ring oss 22 95 66 00

info@globalknowledge.no

www.globalknowledge.com/nb-no/

Grenseveien 90, 0663 Oslo, PO Box 6256 Etterstad, 0606 Oslo, Norway