

OWASP Top 10 2017 Update

page 1

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Prerequisites: It would be helpful to have watched the previous OWASP courses as many of the threats still exist: OWASP, Part 1: Avoiding Hacker Tricks - OWASP, Part 2: Forgery and Phishing - OWASP, Part 3: Threats and Session Security - OWASP, Part 4: Misconfiguration and Data Encryption

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Course description: The Open Web Application Security Project focuses on improving the security of software. The OWASP Top 10 is a powerful awareness document for web application security and represents a broad consensus about the most critical security risks to web applications. This course discusses the updates to the Top 10 and how threats have changed.

Course outline:

Objectives and Overview

- Introduction
- About This Course
- Previous Courses
- Related Courses
- Outline
- Summary

History

- Introduction
- OWASP Top 10 2017: History
- OWASP Top 10
- Web Application Security Risks
- Why Revisited
- OWASP Top 10 2017: History
- Summary

Process

- Introduction
- OWASP Top 10 2017: Process
- New Approaches to the OWASP Top 10 2017
- Changes to OWASP Top 10: 2013 to 2017
- Summary

Finding OWASP

- Introduction
- Demo: Finding OWASP
- Demo: OWASP Wiki
- Summary

XML External Entities

- Introduction
- A4: XML External Entities
- Examples
- Remote Code Execution

- Revealing Files
- How to Prevent XXE
- Summary

XXE Demo

- Introduction
- XXE Demo
- Unsafe XDocument
- Java XXE
- Summary

XML XXE DOTNET Demo

- Introduction
- XML XXE Demo
- XML Bomb
- Summary

Insecure Deserialization

- Introduction
- A8: Insecure Deserialization
- Examples
- How to Prevent Insecure Deserialization
- Summary

Insecure Deserialize Demo

- Introduction
- Insecure Deserialize Demo
- Solutions
- Summary

Insufficient Logging and Monitoring

- Introduction
- A10: Insufficient Logging and Monitoring
- Example Attack Scenarios
- How to Prevent
- Summary

The Future of OWASP

- Introduction

- Future OWASP Top 10
- OWASP Top 10: A Starting Place
- Other OWASP Resources
- Summary