



Level Up Your Web App Pen Tests: Modern Web Application Testing

Syllabus

Date : 10-04 - 2019

Description

This course is designed to take a deep dive into security of today's web applications. It is composed of a series of hands-on exercises and demonstrations combined with lecture-based theory with the goal of teaching the core concepts behind modern web application security controls.

Is this class for me?

If you are interested in testing the security of modern single page apps with functionality such as APIs, CORS policies and JSON Web Tokens, then this is for you! The material covered in this course is suitable for a wide-range of technologists, including both seasoned and novice application penetration testers as well as developers and architects looking to understand how to better secure their web applications.

Requirements and Equipment

Attendees should have a basic understanding of web applications; including a grasp of concepts such as HTML, HTTP, and JavaScript. Prior knowledge of the OWASP Top 10 vulnerabilities is an asset but not strictly required.

Students who wish to participate in the lab exercises must bring their own laptop with a recent version of VirtualBox installed and running. The class lab environment will be provided on a USB drive at the beginning of class. The lab virtual machine is self-contained; therefore, no Internet access is required to run the exercises but may be useful for research.

Agenda

The topics covered in this class include the following:

- Cross Origin Resource Sharing (CORS)
- Content Security Policy (CSP)
- DOM-based Cross Site Scripting (DOM XSS)
- JSON Manipulation
- JSON Web Tokens