SDA.ACADEMY
Cybersecurity training

THINKCYBER

Syllabus

Web Application

CYBERIUM ARENA

-SIMULATOR-

Description

The Web Application course will help participants understand web application languages and their exploitation. Students will learn a proven process for locating these flaws consistently. This training program's primary goal is to help security specialists understand web application risks in their organization and learn how to conduct web application security assessments.

The course helps prepare for the certification exams GWEB (SANS) and OSWE (Offensive Security).

Target audience

This course targets cyber experts who wish to learn web application languages and people who wish to learn web application security fundamentals.

Pre-requisites

Networking

Objectives

- Discovering and mitigating website vulnerabilities
- Using tools to automate your tasks
- Securing web servers from attacks

Module 1 - Introduction to Web App security

Students will learn web application security, techniques, and web app developers' methods in this module.

WebApp Concepts

- Web Application Architecture
- Client, Server, and Database
- Fingerprinting Websites
- Robots.txt Structure
- Securing the Admin Interface
- Parameter Tampering
- HTTPS Encryption

WebApp Basics

- HTML
- PHP
- Combining HTML and PHP
- HTTP Response Codes

Module 2 - JavaScript

In this module, students will learn how to work with JavaScript, including ways for penetration testing.

JavaScript

- Modifying HTML
- Hijacking Forms
- Keylogger
- Social Engineering
- HTML Parsing
- JSON Parsing
- XML Parsing

Module 3 - SOL Databases

Students will learn the basics of SQL databases, using and conducting tests on web applications to detect security holes either by brute-force or by exploiting a vulnerability during this module.

SQL Database

- SQL Explained
- Creating Databases
- Understanding SQL Injection
- Testing for SQL Injection
- Exploiting SQL Injection
- Blind SQL Injection

Module 4 - Introduction to Web Application Vulnerabilities

Students will learn about common vulnerabilities in web applications during this module, how they can be exploited, and what impact they could pose.

Exploitation

- BurpSuite Fundamentals
- Brute Force
- Command Injection
- User Enumeration
- Local File Inclusion
- Reflected XSS Stored XSS
- DOM Based XSS