



# Web Application Security Expert

LEARN ETHICAL HACKING AND CYBER SECURITY  
WITH REAL TIME HANDS-ON PRACTICAL ON LIVE  
TARGETS IN GUIDANCE OF MOST EXPERIENCED  
AND CERTIFIED MENTORS OF CYBER HUNTERZ



[www.cyberhunterz.com](http://www.cyberhunterz.com)

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## Details for Web Application Security Expert:

### Overview

In this course: Topics will be covered in detail, common security threats to web applications and what are countermeasures strategies available & explaining each of the top ten OWASP vulnerabilities as well as their mitigation properly. This training is really helpful for developers to develop secure web applications.

### Pre-Requisites

Students should already be familiar with any operating system (Like: Windows OR Linux).

### Who We Are?

Cyber Hunterz is India's most credible sources of real time trainings in Cyber security domain, providing world class practical knowledge to individuals and corporate professionals around the globe. We have brilliant mentors with real time industry exposure, training from years and helping students achieving excellence with their sheer determination

### Why Choose Cyber Hunterz?

Cyber Hunterz is completely specialised to Cyber Security domain only, which is our USP. All our trainings are delivered with real time Practical which makes you ready to complete the actual job, not just a theoretical syllabus with some tool-based approach. All our trainers are highly experienced and certified practitioners. The course material is intelligently designed with most recent requirement of the industry and updated timely with new concept.

### Training with experts



Not just a theoretical syllabus. We emphasize more on real time hands-on experience about the concept taught.



Training beyond syllabus is the factor which we deliver as an additional perk as all trainers possess good knowledge and experience to share as open book



Strong grasp of methodology behind a concept rather than teaching just tools and technique



Skill assessment and improvement plan for every course we offer to make student a true professional

### Features:

- > Web Application Security Toolkit
- > 24x7 Online Classes Available
- > Web Application Security Certificate
- > Interview Preparation
- > 1 Year Membership
- > Training by experienced trainers
- > Live hacking
- > Checkpoint based training
- > Class recording
- > 24x7 Support

## Web Application Security Expert Course Content:

### Module 01 > Introduction to application security

- › Introduction to Web Applications
- › Understanding Web Application Architecture
- › HTTP Protocol Basics
- › HTTP Attack Vectors
- › HTTPS vs HTTP
- › Introduction to VAPT
- › Introduction to Application Security
- › Application Security Risks
- › Case Studies

### Module 02 > OWASP Top 10

- › Global Standards/Frameworks
  - SANS Top 25 Software Errors
  - WASC
  - NIST
  - OWASP
- › What is OWASP
- › Significant OWASP Projects
- › OWASP Top 10
- › The 'OWASP Top 10' for WebAppSec
  - A1-Injection
  - A2-Broken Authentication
  - A3-Sensitive Data Exposure
  - A4-XML External Entities (XXE)
  - A5-Broken Access Control
  - A6-Security Misconfiguration
  - A7-Cross-Site Scripting (XSS)
  - A8-Insecure Deserialization
  - A9-Using Components with Known Vulnerabilities
  - A10- Insufficient Logging & Monitoring
- › Mitigations of OWASP Top 10

## Module 03 > Modern Attacks of Web Application

### > CSRF

- Understanding the vulnerability
- Discovering the vulnerability
- Attacking the Issue
- Impact & Countermeasure

### > SSRF

- Understanding the vulnerability
- Discovering the vulnerability
- Attacking the Issue
- Impact & Countermeasure

### > Clickjacking

- Understanding the vulnerability
- Discovering the vulnerability
- Attacking the Issue
- Impact & Countermeasure

### > SSTI

- Understanding the vulnerability
- Discovering the vulnerability
- Attacking the Issue
- Impact & Countermeasure

### > XXE

- Understanding the vulnerability
- Discovering the vulnerability
- Attacking the Issue
- Impact & Countermeasure

## **Module 04** > **Automated approach of Vulnerability Assessment**

### > Web Application Scanners

Netsparker

Nessus

Acunetix

AppScan

WebInspect

NeXpose

### > Profiling the Scans

### > Interpreting Scanner Reports

### > Open source Tools and Testing Methodologies

Vega

OWASP OWTF

## **Module 05** > **API security Testing**

### > API Insecurity

Introduction to API & API Security

SOAP vs REST

Case Studies

Common API Vulnerabilities

### > Core Toolset for API Testing

### > Attacks on API

### > API Assessment Approach

### > Bot Defense for API

### > How to stop API Attacks?

## **Module 06** > **Mitigation Strategy for Web Application loopholes**

- > Common Mistakes in Development
- > Security Best Practices for Web Application & API Security
- > Secure SDLC
  - Threat Modelling
  - Source Code Review
  - VAPT
- > Cloud Security

## **Module 07** > **Cloud Introduction**

- > Introduction to cloud
- > Introduction to virtualization
- > Cloud Service Models
- > Cloud Industry Standards
- > Security Challenges
- > Introduction to Cloud Vendors (Aws & Azure)
- > Cloud Access Security Broker

## **Module 08** > **Cloud Migration Challenges**

- > Cloud Breach Case Study
- > Virtualization security Issues
- > Risk Assessment on Cloud Migration
- > OWASP Top 10 Threats
- > Planning Secure Migration

## **Module 09** > **Cloud Infrastructure Security**

- > Cloud Configuration & Patch Management
- > Cloud Change management
- > Cloud Infrastructure Audit (Intro, Audit, Best Practice)
  - Aws - VPC, EC2
  - Azure - ARM, NSG
- > **Demo:-** Aws cli & powershell & Amazon, Azure portal

## **Module 10** > **Cloud Data Security**

- > Data Protection (rest, at transit, in use)
- > Data Information lifecycle
- > Cloud Data Audit (Intro, Audit, Best Practice)
  - Aws - EBS, S3
  - Azure - SAS
- > **Demo:-** Aws cli & powershell & Amazon, Azure portal
- > Key management
- > Cloud Key management Audit (Intro, Audit, Best Practice)
  - Aws -KMS
  - Azure - Azure Key Vault
- > **Demo:-** Aws cli & powershell & Amazon, Azure portal

## **Module 11** > **Identity and Access Management**

- > Introduction to Identity and Access Management
- > Introduction to Federated Identity Management
- > Case Study
- > Cloud IAM Audit (Intro, Audit, Best Practice)
  - Aws -IAM
- > **Demo:-** Aws Cli & Amazon portal

## Module 12 > Cloud Application Security

- > Cloud Application Challenges
- > OWSAP Top 10
- > Secure SDLC
- > DevSecOps
- > Introduction to Cloud watch, Cloud Trail
- > Security automation – Cloud Trail, Cloud watch, Lambda

## Module 13 > Cloud Compliance, Policy, Governance

- > Cloud Policy
- > Cloud SLA
- > Cloud Risk Management
- > Cloud Compliance
  - Legal, Privacy and Geographic Issues
  - Cloud Compliance Standards
  - Cloud Compliance Discussion with CSA CCM & CAI
- > Cloud Compliance Audit (Intro)
  - Azure-Security Center
- > Demo:- Azure portal

## Module 14 > Cloud Incident Response & Intrusion Detection &

- > BCP/DR
- > BCP/DR Issues
- > Cloud Intrusion Detection
- > Cloud Forensics Challenges
- > Cloud Incident Response
- > Use Case -Aws
- > Cloud Pen testing



## Web Application Security Expert Training Program

### Weekday Classes

Monday To Friday  
Duration: 2 to 3 Hours  
No. Of Classes: 60 hours

### Weekend Classes

Saturday & Sunday  
Duration: 4 to 8 Hours  
Number Of Classes: 60 hours

### Delivery Method

Classroom Training  
Online Training  
Free Demo Class  
English/Hindi

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