



## Course Curriculum for Advanced Bundle Students

### Module 01 - Introduction to Ethical Hacking

Lesson 01 - Information Security Overview

Lesson 02 - Information Security Threats and Attack Vectors

Lesson 03 - Penetration Testing Concepts

Lesson 04 - Hacking Concepts

Lesson 05 - Ethical Hacking Concepts

Lesson 06 - Information Security Controls

Lesson 07 - Information Security Laws and Standards

### Module 02 - Footprinting and Reconnaissance

Lesson 01 - Footprinting Concepts

Lesson 02 - Footprinting through Search Engines

Lesson 03 - Footprinting through Web Services

Lesson 04 - Footprinting through Social Networking Sites

Lesson 05 - Website Footprinting

Lesson 06 - Email Footprinting

Lesson 07 - Competitive Intelligence

Lesson 08 - Whois Footprinting

Lesson 09 - DNS Footprinting

Lesson 10- Network Footprinting

Lesson 11- Footprinting through Social Engineering

Lesson 12 - Footprinting Tools

Lesson 13 - Countermeasures

Lesson 14 - Footprinting Pen Testing

### Module 03 - Scanning Networks

Lesson 01 - Network Scanning Concepts

Lesson 02 - Scanning Tools

Lesson 03 - Scanning Techniques

Lesson 04 - Scanning Beyond IDS and Firewall

Lesson 05 - Banner Grabbing

Lesson 06 - Draw Network Diagrams

Lesson 07 - Scanning Pen Testing

### Module 04 - Enumeration

Lesson 01 - Enumeration Concepts

Lesson 02 - NetBIOS Enumeration

Lesson 03 - SNMP Enumeration

Lesson 04 - LDAP Enumeration

Lesson 05 - NTP Enumeration

Lesson 06 - SMTP Enumeration and DNS Enumeration

Lesson 07 - Enumeration Countermeasures

Lesson 08 - Other Enumeration Techniques

Lesson 09 - Enumeration Pen Testing

### Module 05 - Vulnerability Analysis

Lesson 01 - Vulnerability Assessment Concepts

Lesson 02 - Vulnerability Assessment Solutions

Lesson 03 - Vulnerability Scoring Systems

Lesson 04 - Vulnerability Assessment Tools

Lesson 05 - Vulnerability Assessment Reports

### Module 06 - System Hacking

Lesson 01 - System Hacking Concepts

Lesson 02 - Cracking Passwords

Lesson 03 - Escalating Privileges

Lesson 04 - Executing Applications

Lesson 05 - Hiding Files

Lesson 06 - Covering Tracks

Lesson 07 - Penetration Testing

## Module 07 - Malware Threats

Lesson 01 - Malware Concepts

Lesson 02 - Trojan Concepts

Lesson 03 - Virus and Worm Concepts

Lesson 04 - Malware Analysis

Lesson 05- Countermeasures

Lesson 06- Anti-Malware Software

Lesson 07- Malware Penetration Testing

## Module 08 - Sniffing

Lesson 01- Sniffing Concepts

Lesson 02- Sniffing Technique: MAC Attacks

Lesson 03- Sniffing Technique: DHCP Attacks

Lesson 04- Sniffing Technique: ARP Poisoning

Lesson 05- Sniffing Technique: Spoofing Attacks

Lesson 06- Sniffing Technique: DNS Poisoning

Lesson 07- Sniffing Tools

Lesson 08- Countermeasures

Lesson 09- Sniffing Detection Techniques

Lesson 10- Sniffing Pen Testing

## Module 09- Social Engineering

Lesson 01 - Social Engineering Concepts

Lesson 02 - Social Engineering Techniques

Lesson 03- Insider Threats

Lesson 04 - Impersonation on Social Networking Sites

Lesson 05 - Identity Theft

Lesson 06 - Countermeasures

Lesson 07 - Social Engineering Penetration Testing

## Module 10- Denial-of-Service

Lesson 01 - DoS/DDoS Concepts

Lesson 02 - DoS/DDoS Attack Techniques

Lesson 03 - Botnets

Lesson 04 - DDoS Case Study

Lesson 05 - DoS/DDoS Attack Tools

Lesson 06 - Countermeasures

Lesson 07 - DoS/DDoS Protection Tools

Lesson 08 - DoS/DDoS Attack Penetration Testing

## Module 11- Session Hijacking

Lesson 01- Session Hijacking Concepts

Lesson 02- Application-Level Session Hijacking

Lesson 03- Network Level Session Hijacking

Lesson 04- Session Hijacking Tools

Lesson 05- Countermeasures

Lesson 06- Penetration Testing

## Module 12 - Evading IDS, Firewalls, and Honeypots

Lesson 01- IDS, Firewall, and Honeypot Concepts

Lesson 02- IDS, Firewall, and Honeypot Solutions

Lesson 03- Evading IDS

Lesson 04- Evading Firewalls

Lesson 05- IDS/Firewall Evading Tools

Lesson 06- Detecting Honeypots

Lesson 07- IDS/Firewall Evasion Countermeasures

Lesson 08- Penetration Testing

## Module 13- Hacking Web Servers

Lesson 01- Web Server Concepts

Lesson 02- Web Server Attacks

Lesson 03- Web Server Attack Methodology

Lesson 04- Web Server Attack Tools

Lesson 05- Countermeasures

Lesson 06- Patch Management

Lesson 07- Web Server Security Tools

Lesson 08- Web Server Pen Testing

## Module 14- Hacking Web Applications

Lesson 01 - Web App Concepts

Lesson 02 - Web App Threats

Lesson 03 - Hacking Methodology

Lesson 04 - Web Application Hacking Tools

Lesson 05 - Countermeasures

Lesson 06 - Web App Security Testing Tools

Lesson 07 - Web App Pen Testing

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## Module 15- SQL Injection

Lesson 01 - SQL Injection Concepts

Lesson 02 - Types of SQL Injection

Lesson 03 - SQL Injection Methodology

Lesson 04 - SQL Injection Tools

Lesson 05 - Evasion Techniques

Lesson 06 - Countermeasures

## Module 16- Hacking Wireless Networks

Lesson 01 - Wireless Concepts

Lesson 02 - Wireless Encryption

Lesson 03 - Wireless Threats

Lesson 04 - Wireless Hacking Methodology

Lesson 05 - Wireless Hacking Tools

Lesson 06 - Bluetooth Hacking

Lesson 07 - Countermeasures

Lesson 08 - Wireless Security Tools

Lesson 09 - Wi-Fi Pen Testing

## Module 17- Hacking Mobile Platforms

Lesson 01- Mobile Platform Attack Vectors

Lesson 02- Hacking Android OS

Lesson 03- Hacking iOS

Lesson 04- Mobile Spyware

Lesson 05- Mobile Device Management

Lesson 06- Mobile Security Guidelines and Tools

Lesson 07- Mobile Pen Testing

## Module 18- IoT Hacking

Lesson 01- IoT Concepts

Lesson 02- IoT Attacks

Lesson 03- IoT Hacking Methodology

Lesson 04- IoT Hacking Tools

Lesson 05- Countermeasures

Lesson 06- IoT Pen Testing

## Module 19- Cloud Computing

Lesson 01 - Cloud Computing Concepts

Lesson 02 - Cloud Computing Threats

Lesson 03 - Cloud Computing Attacks

Lesson 04 - Cloud Security

Lesson 05 - Cloud Security Tools

Lesson 06 - Cloud Penetration Testing

## Module 20- Cryptography

Lesson 01- Cryptography Concepts

Lesson 02- Encryption Algorithms

Lesson 03- Cryptography Tools

Lesson 04- Public Key Infrastructure (PKI)

Lesson 05- Email Encryption

Lesson 06- Disk Encryption

Lesson 07- Cryptanalysis

Lesson 08- Countermeasures

**NOTE :- This course we provide in advance with tools and practical.**

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