

# Ethical Hacking

## Course Curriculum:

### Module 01 - Introduction to Ethical Hacking

- > Lesson 01 - Information Security Overview
- > Lesson 02 - Information Security Threats and Attack Vectors
- > Lesson 06 - Penetration Testing Concepts
- > Lesson 03 - Hacking Concepts
- > Lesson 04 - Ethical Hacking Concepts
- > Lesson 05 - 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
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- 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

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

Registered Office:-Bangalore: 80505-80888

Hubli: 9069980888

Email-id: [info@apponix.com](mailto:info@apponix.com)

## 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

## 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

## Module16-Hacking WirelessNetworks

- > 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

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Registered Office:-Bangalore: 80505-80888

Hubli: 9069980888

Email-id: [info@apponix.com](mailto:info@apponix.com)

- > 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