

Duration: 2 Month

Advance Ethical Hacking

Overview:

The Advance Ethical Hacking program is the most desired information security training program for any information security professional or cyber security enthusiast will ever want to be in. To master the hacking technologies, you will need to become one, but an ethical one. The course provides the advanced hacking tools and techniques used by hackers and information security professionals alike to break into an organization. As we put it, "To beat a hacker, you need to think like a hacker".

What you'll learn:

- Key issues plaguing the information security world, incident management process, and penetration testing.
- Network scanning techniques and scanning countermeasures.
- System hacking methodology, steganography, steganalysis attacks, and covering tracks.
- Different types of Trojans, Trojan analysis, and Trojan countermeasures.
- Social Engineering techniques, identify theft, and social engineering countermeasures.
- Session hijacking techniques and countermeasures.

Target Audience:





The Advanced Ethical Hacking training course will significantly benefit:

- Security officers & Ethical Hackers.
- Network Administrators and Engineers
- System Administrators and anyone who is concerned about the integrity of the network.

Prerequisite Knowledge:

- Participant of this course are assumed to be familiar with any operating system concepts.

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Course Outline:

Module 01: Introduction to Ethical Hacking

- Information Security
- Hacking
- Ethical Hacking
- Information Security Controls
- Penetration Testing Concepts
- Cyber Laws

Module 02: Footprinting and Reconnaissance

- Reconnaissance using Search Engines
- Reconnaissance using Social Networks
- Email Footprinting
- DNS Footprinting
- Network Footprinting
- Reconnaissance Tools

Module 03: Scanning Networks

- Network Scanning
- Scanning Tools
- Scanning Techniques
- Banner Grabbing
- Network Layout
- NMAP

Module 04: Enumeration

- Enumeration Concepts
- SMTP Enumeration
- DNS Enumeration
- Other Enumeration Techniques

- Enumeration Countermeasures
- Enumeration Pentesting

Module 05: Vulnerability Analysis

- Vulnerability Analysis Basics
- Vulnerability Assessment Solutions
- Vulnerability Scoring Systems
- Vulnerability Tools
- Making Reports

Module 06: System Hacking

- Understanding System Hacking Concepts
- Password Cracking
- Keyloggers, Spywares
- Steganography
- Penetration Testing

Module 07: Malware Analysis

- Concepts of Malware Analysis
- Trojans
- Virus & Worms
- Understanding Malware
- Countermeasures
- Anti-Malware Softwares

Module 08: Sniffing

- Basics of Sniffing
- MAC Attacks
- ARP Poisoning



- Spoofing Attacks
- Countermeasures

Module 09: Social Engineering

- What is Social Engineering?
- Techniques
- Social Sites Attacks
- Countermeasures

Module 10: DOS

- What is DOS?
- DOS Attack Techniques
- What is Botnet?
- Tools
- Countermeasures

Module 11: Session Hijacking

- Basics of Session Hijacking
- MITM
- IP Spoofing
- Tools for Session Hijacking
- Countermeasures

Module 12: Firewalls and Honeypots

- IDS, Firewall and Honeypots
- Solution
- Evading Firewalls
- Detecting Honeypots
- Countermeasures



Module 13: Hacking Web Servers

- Understanding Servers
- Attacks
- Tools
- Patch
- Server Security Tools Web Server Pentesting

Module 14: Hacking Web Applications

- Web Application Concepts Web Application Threats
- Tools
- Countermeasures

Module 15: SQL Injection

- Types of SQL
- Methodology of SQL Injection
- Evasion
- Countermeasures

Module 16: Wireless Networks

- Wireless Technology
- Understanding Wireless Encryption
- Wireless Hacking Tools
- Bluetooth Hacking
- Countermeasures



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Module 17: Android Hacking

- Understanding Android
- Hacking Android
- Hacking IOS
- Spywares
- Android Pentesting

Module 18: IOT Hacking

- Basics of IOT
- Attacks
- IOT Pentesting

Module 19: Cloud

- Cloud Threats
- Cloud Security
- Tools
- Cloud Pentesting

Module 20: Cryptography

- Concepts of Cryptography
- Types of Encryptions
- Tools
- Email Encryption