

# Welcome To **HACKER ACADEMY**

Hacking Class Syllabus By  
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**1** Learn Easily

**2** Tools & Resources  
Access

**3** Community Engage

**4** 24x7 Support

Join India's No.1 Ethical Hacker Community

# **1. Introduction to Ethical Hacking**

## Information Security Overview

1.1 Internet is Integral Part of Business and Personal Life –

What Happens Online in 60 Seconds

1.2 Essential Terminology

1.3 Elements of Information Security

1.4 The Security, Functionality, and Usability Triangle

Information Security Threats and Attack Vectors

1.5 Motives, Goals, and Objectives of Information Security

Attacks

1.6 Top Information Security Attack Vectors

1.7 Information Security Threat Categories

1.8 Types of Attacks on a System

1.9 Information Warfare Hacking Concepts

1.10 What is Hacking?

1.11 Who is a Hacker?

1.12 Hacker Classes

1.13 Hacking Phases

o Reconnaissance

o Scanning

o Gaining Access

o Maintaining Access

o Clearing Tracks

## **Ethical Hacking Concepts**

1.14 What is Ethical Hacking?

1.15 Why Ethical Hacking is Necessary

1.16 Scope and Limitations of Ethical Hacking

1.17 Skills of an Ethical Hacker

## Footprinting

2.1 What is Footprinting?

2.2 Objectives of Footprinting

Footprinting through Search Engines

2.3 Footprinting through Search Engines

2.4 Footprint Using Advanced Google Hacking Techniques

2.5 Information Gathering Using Google Advanced Search and Image Search

2.6 Google Hacking Database

2.7 VoIP and VPN Footprinting through Google Hacking Database Footprinting through Web Services

2.8 Finding Company's Top-level Domains (TLDs) and Subdomains

2.9 Finding the Geographical Location of the Target

2.10 People Search on Social Networking Sites and People Search Services

2.11 Gathering Information from LinkedIn

2.12 Gather Information from Financial Services

2.13 Footprinting through Job Sites

2.14 Monitoring Target Using Alerts

2.15 Information Gathering Using Groups, Forums, and Blogs

2.16 Determining the Operating System

## **Network Scanning Concepts**

3.1 Overview of Network Scanning

3.2 TCP Communication Flags

3.3 TCP/IP Communication

3.4 Creating Custom Packet Using TCP Flags

3.5 Scanning in IPv6 Networks Scanning Tools

3.6 Nmap

3.7 Hping2 / Hping3 o Hping Commands

3.8 Scanning Tools

3.9 Scanning Tools for Mobile

Scanning Techniques

3.10 Scanning Techniques

o ICMP Scanning – Checking for Live Systems

o Ping Sweep – Checking for Live Systems Ping Sweep Tool

## **4. Enumeration**

Enumeration Concepts

4.1 What is Enumeration?

4.2 Techniques for Enumeration

4.3 Services and Ports to Enumerate

NetBIOS Enumeration

4.4 NetBIOS Enumeration

4.5 NetBIOS Enumeration Tools

4.6 Enumerating User Accounts

4.7 Enumerating Shared Resources Using Net View

## 6. System Hacking

System Hacking Concepts

6.1 CEH Hacking Methodology (CHM)

6.2 System Hacking Goals

Cracking Passwords

6.3 Password Cracking

6.4 Types of Password Attacks

- o Non-Electronic Attacks

- o Active Online Attack

Dictionary, Brute Forcing and Rule-based Attack

Password Guessing

Default Passwords

Trojan/Spyware/Keylogger

6.23 Keylogger

- o Types of Keystroke Loggers

- o Hardware Keyloggers

- o Keyloggers for Windows

- o Keyloggers for Mac

## 6.29 What is Steganography?

- o Classification of Steganography
- o Types of Steganography based on Cover Medium
- o Whitespace Steganography
- o Image Steganography
- Image Steganography Tools
- o Document Steganography
- o Video Steganography
- o Audio Steganography
- o Folder Steganography
- o Spam/Email Steganography

## Trojan Concepts

7.5 What is a Trojan?

7.6 How Hackers Use Trojans

7.7 Common Ports used by Trojans

7.8 How to Infect Systems Using a Trojan

7.9 Trojan Horse Construction Kit

7.10 Wrappers

7.11 Crypters

7.12 How Attackers Deploy a Trojan

7.13 Exploit Kits

7.14 Evading Anti-Virus Techniques

7.15 Types of Trojans

o Remote Access Trojans

o Backdoor Trojans o Botnet Trojans

Virus and Worm Concepts

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Virus and Worm Concepts

## 9. Social Engineering

Social Engineering Concepts

9.1 What is Social Engineering?

9.2 Phases of a Social Engineering Attack Social

Engineering Techniques

9.3 Types of Social Engineering

9.4 Human-based Social Engineering

Impersonation

9.5 Computer-based Social Engineering

Phishing



## 9.6 Mobile-based Social Engineering

Publishing Malicious Apps

Repackaging Legitimate Apps

Fake Security Applications

SMiShing (SMS Phishing)

## 10.27 Metasploit

Metasploit Exploit Module

Metasploit Payload and Auxiliary Module

Metasploit NOPS Module

## 10.28 Web Server Attack Tools

## **Wifi Hacking**

### 16. Hacking Wireless Networks Wireless Concepts

16.1 Wireless Terminologies

16.2 Wireless Networks

16.3 Wireless Standards

16.4 Service Set Identifier (SSID)

16.5 Wi-Fi Authentication Modes

16.6 Wi-Fi Authentication Process Using a Centralized Authentication Server

16.7 Types of Wireless Antennas Wireless Encryption

16.8 Types of Wireless Encryption

WEP (Wired Equivalent Privacy) Encryption

WPA (Wi-Fi Protected Access) Encryption

WPA2 (Wi-Fi Protected Access 2) Encryption



16.9 WEP vs. WPA vs. WPA2

16.10 WEP Issues

16.11 Weak Initialization Vectors (IV) Wireless Threats

16.12 Wireless Threats

Rogue Access Point Attack

Client Mis-association

Misconfigured Access Point Attack

Unauthorized Association

Google Cloud Console

Track any iOS, Android, and Windows system

Hacking webcam

Hacking Audio

Hacking Social medias

Android Security tool: find my device

Android Vulnerability Scanner

Website Hacking

Setup Lab

Cross-site Scripting

Remote execution code Attack

SQL injection

Vulnweb Live Attack

**Bug Bounty**

**We Just Don't Teach**

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