

# Ethical Hacking

Duration : 45 hours

## Introduction to Hacking :

- ◀ What is Hacking?
- ◀ Ethical hacker
- ◀ Information Security Laws and Standards
- ◀ Information Security
- ◀ Incident Management
- ◀ Data breaches and malware trends
- ◀ Threat modelling
- ◀ EISA, Vulnerability Assessment, VA research, info warfare

## Foot Printing :

- ◀ Footprint through Search engines
- ◀ Google hacking-dorking
- ◀ Web crawler / Spider
- ◀ Footprinting through Websites
- ◀ Whois lookup
- ◀ Whois lookup
- ◀ Traceroute, Looking glass server, BGP Tools
- ◀ NSLookup
- ◀ SNMP - Simple Network Management Protocol
- ◀ Footprinting through email tracking

## Network Scanning :

- ◀ Introduction to Network scanning
- ◀ Network port scanning

- ◀ Network scanning tools
- ◀ Nmap - Network mapper – scanner
- ◀ Network monitoring tools – Open source
- ◀ Network monitoring tools – Commercial
- ◀ Ping - Ping sweep
- ◀ HPing and FPing demo on Kali Linux
- ◀ HPing and FPing
- ◀ Proxy Servers 1

## Network Enumeration :

- ◀ Network Enumeration introduction
- ◀ Network enumeration tools
- ◀ Scanning and Enumeration Countermeasures

## System Hacking :

- ◀ Hacking Methodology
- ◀ Password cracking
- ◀ Brute-force attack
- ◀ Ophcrack - Windows password cracker
- ◀ Custom Word List generator
- ◀ Crunch wordlist generator
- ◀ Pwdump - Password Dumper and Hash Suite
- ◀ Hashcat - advanced password recovery tool

## Malware Trojans :

- ◀ Trojan horse (Trojan) introduction
- ◀ Beast trojan - Remote Administration Tool (RAT)

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- ◀ Beast Trojan demo - Educational purpose ONLY

- ◀ Process explorer

- ◀ Malware countermeasures

## **Malware – Virus and Worms :**

- ◀ Virus introduction

- ◀ How virus works

- ◀ Virus removal

- ◀ Stealth techniques

- ◀ Virus maker tools

## **Packet Sniffers :**

- ◀ Packet Sniffers

- ◀ Wireshark

- ◀ Countermeasures-Sniffing

- ◀ Xplico

## **Social Engineering :**

- ◀ Social engineering introduction

- ◀ Social engineering techniques

- ◀ Social engineering countermeasures

## **Dos/DDos attacks :**

- ◀ DoS-DDoS attacks Introduction

- ◀ DoS-DDoS attack Types

- ◀ DoS-DDoS attack techniques and tools

## **ADDITIONAL THINGS THAT YOU CAN GET ONLY AT ITDESK:**

### **Training:**

- ◀ Project based learning

- ◀ Preparation for International Certification

- ◀ Certification

### **IT DESK SUPPORT :**

- ◀ World Class step by step Courseware | Books

- ◀ Practical based assignments

- ◀ Multi-Utility Online Panel

- ◀ Lifetime Membership applicable across all India ITDESK

- ◀ Online Panel including Mock Test & Online Test

- ◀ 100% Placement Assistance with National & International Companies.

- ◀ Live Projects

- ◀ Weekend Batches

- ◀ Online Classes

- ◀ Fast Track Batches

- ◀ Special batches for IITians

- ◀ 100% Practical Oriented Sessions by expert