

# CETPA INFOTECH PVT. LTD.

## CURRICULUM OF ETHICAL HACKING

### ❖ INTRODUCTION TO ETHICAL HACKING

- Hacking Concepts
  - Hacking vs. Ethical Hacking
  - Effects of Hacking on Business
  - Who Is a Hacker?
  - Hacker Classes
  - Hacktivism
- Hacking Phases
- Types of Attacks
  - Types of Attacks on a System
  - Operating System Attacks

### ❖ INFORMATION GATHERING

- Footprinting
  - Footprinting Concepts
  - What is Footprinting?
  - Why Footprinting?
  - Objectives of Footprinting
- Reconnaissance
  - Reconnaissance Concepts
  - WHOIS Lookup
- DNS Interrogation
  - Extracting DNS Information
  - DNS Interrogation Tools

### ❖ INTRODUCTION TO LINUX/KALI LINUX/BACKTRACK

- Introduction
- Basic Commands
- Exploit Tools

### ❖ SCANNING NETWORKS

- Overview of Network Scanning
- Scanning Techniques
  - Ping sweep
  - Check for Open Ports
  - Scanning Tool: Nmap

### ❖ STEGNOGRAPHY

- Image Hiding
- Data Hiding
- Some Basic Cmd Commands

### ❖ SYSTEM HACKING

- System Hacking: Goals
- Password Cracking
- Password Complexity
- Password Cracking Techniques
- Types of Password Attacks

### ❖ TROJANS, VIRUSES AND WORMS

- Trojan Concepts
- Difference b/w Trojan, Viruses and Worms
- Types Of Trojans

### ❖ SNIFFERS

- Sniffing Concepts
- How a Sniffer Works
- Types of Sniffing Attacks

### ❖ SOCIAL ENGINEERING

- What is Social Engineering?
- How can it be used?
- Types Of Social Engineering

### ❖ DENIAL OF SERVICE

- DoS/DDoS Concepts
- DoS Attack Techniques
- Botnet

### ❖ SESSION HIJACKING

- Session Hijacking Concepts
- Brute Forcing Attack
- Man-in-the-Middle Attack

### ❖ HACKING WEBSERVERS

- Webserver Concepts
- Webserver Attacks
- Webserver Attack Tools

### ❖ EMAIL HACKING

- Email Concept
- What is Email Hacking
- Phishing Script

### ❖ SQL INJECTION

- What is SQL injection
- Exploiting the weakness of server
- SQL Injection Scripts

### ❖ HACKING WIRELESS NETWORKS

- Wireless Concepts
- Wireless Networks
- Wireless Hacking Tools

### ❖ EVADING IDS, FIREWALLS, AND HONEYPOTS

- IDS, Firewall and Honeypot Concepts
- How IDS Works?
- Types of Intrusion Detection Systems
- Firewall
- Honeypot
  - Types of Honeypots
  - How to Set Up a Honeypot?

### ❖ BUFFER OVERFLOW

- Buffer Overflow Concept
- Introduction to Metasploit
- How to Buffer Overflow With Metasploit

### ❖ GOOGLE HACKING

- What is Google?
- Google Tricks and Basic Hacks
- Penetration Testing
- Pen Testing Concepts
- Pen Testing Techniques
- Vulnerability Assessment
- Pen Testing Phases

### ❖ PROJECT

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