

EMPOWER YOUR DEFENSE: WE HACK TO PROTECT **UNAUTHORISED @CCESS**



Hands-on Programme in

Cybersecurity: Advance Penetration Testing

4 Months | Live Online Training

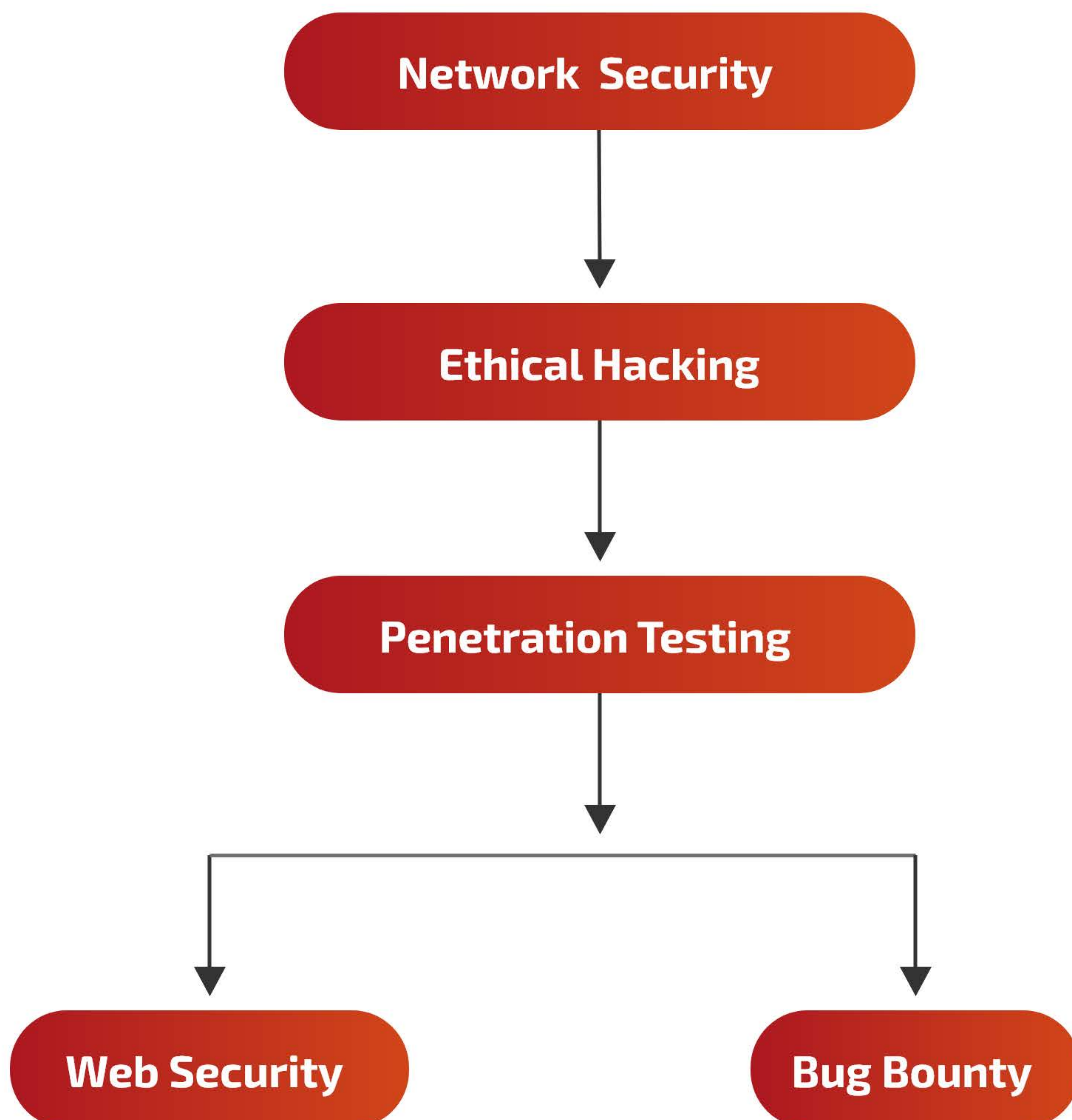
Introducing Our Comprehensive Cybersecurity Professional Training Programs with Internship, Placement, and Simulation Bot.

Are you ready to embark on a rewarding and promising career in the dynamic field of Cybersecurity? Look no further! Our cutting-edge Cybersecurity Professional Training Programs.

ABOUT THE PROGRAM

Our Cybersecurity Professional Training Programs are meticulously designed by industry experts to equip you with Hands-On Penetration Testing and Cybersecurity Skills enabling you to land in a high paying Cybersecurity job. With an emphasis on practical learning, we aim to empower you with real-world expertise that sets you apart in the job market.

LEARNING PATH



CORE DETAILED CURRICULUM

FOUNDATION

(5 Hours)

Networking

- Introduction to Networks
- OSI Model Explained
- TCP/IP Protocol Suite
- Network Devices: Routers, Switches, Firewalls
- Network Security Fundamentals (firewalls, access control)
- Hands-on Lab (using a network simulator to explore basic network concepts)

Operating Systems

- Introduction to Operating Systems (Linux)
- File Systems and Directory Structures
- User Accounts and Permissions
- Basic Linux Commands for Navigation and File Manipulation
- Hands-on Lab (practicing basic commands in a Linux VMware)

Web Technologies

- Introduction to Web Applications
- Hypertext Mark-up Language (HTML)
- Cascading Style Sheets (CSS)
- Introduction to JavaScript

Databases

- Introduction to Databases
- SQL vs. NoSQL Databases (basic concepts)

Servers

- Introduction to Servers
- Types of Servers (Web Servers, Database Servers)
- Server Operating Systems
- Basic Server Administration Tasks (starting/stopping services, user management)

Module 1: Ethical Hacking

- Course Overview
- Type of Hacker
- Difference Between Hacker & Ethical Hacker
- Penetration Testing & Its Types
- Methodologies of Penetration Testing

Module 2: Setup Installation

- VMware Installation
- Network Configuration
- Kali Linux, Windows 7, Ubuntu

Module 3: Footprinting

- Footprinting Through Search Engine
 - Google - Shodan - Search Engine Colossus
 - Duckduckgo - Censys.io - Wayback Machine
- Footprinting Through Social Engineering
 - Fake Email ID - Iplogger - Fake WhatsApp
 - Fake Name Generator - Fake Mobile No
- Footprinting Through Social Networking Sites
 - Facebook - LinkedIn - Twitter
 - Pipl - Namecheck.Com
- Whois Footprinting
- DNS Footprinting
- Network Footprinting
 - Top 10 Networking Command
- Website Footprinting
 - Foca - Htrack - Web Data Extractor
- Competitive Intelligence
 - Changelogdetecton.Com - Website Watcher
- Email Footprinting
 - Gmail Last Login - Email Tracker
 - Boomerang for Gmail - Track Email Activity

Module 4: Networks & Scanning Networks

- Find Connected PC in Network
 - Netdiscover - Fing
 - Angry IP Scanner - Fast Resolver

- Basic Nmap Scan
 - Host Scan - TCP Scan - Stealth Scan
 - UDP Scan - OS Scan - Version Scan
 - Aggressive Scan - Output Scan
- Ngrok
- TOR Network Browser
- Online Web Proxies

Module 5: Enumeration

- Network Resources
- Network Shares
- Routing Tables
- Users & Group
- Machine Names
- Application & Banners
- Currport
- Netstat - Whoami
- SMBMAP - Showmount
- FTP Anonymous

Module 6: System Hacking

- Introduction to Metasploit Framework
 - Auxiliary - Exploit - Payloads
 - Evasion - Encoders
- Metasploit Hacking
 - Msfvenom Windows - Msfvenom Linux
 - Msfvenom Android
- Introduction to Meterpreter Commands
 - Background - Cat - Upload - Webcam
 - Download - Screenshot - Run Vnc
 - Hash dump. - Idle Time - Keystrokes
- Dumping and Cracking SAM Hashes to Extract
- Auditing LOG
- Eventvwr
- Windows 10 Password Hack
 - Stealing Passwords from Different locations
- Password in Cleartext
 - Wce - Mimikatz
- Password Dumping from Web Browser

Module 7: Malware Threats

- Introduction to Malware and Its Types
 - Trojan
 - Njrat
 - Rootkits
 - Virus
 - Worms
 - Adware
 - Spyware
 - Ransomware Explanation
- Trojan
 - Njrat
- Virus Maker
 - Batch File Virus
 - JPS Virus Maker
- Virutotal.Com
- Process Explorer
- Binder and Cryptor
 - Shelter
 - Thefatrat
- Spyware
 - Family Keylogger

Module 8: Sniffing

- Introduction Sniffing Its Types
 - Active Sniffing & Passive Sniffing
 - Spoofing
 - Man In the Middle Attack
 - ARP Poisoning
 - DNS Poisoning
- Password Sniff
 - HTTP Password Capture
 - Telnet Password Capture
 - FTP Password Capture
- Xerosploit
- XARP Detect Sniffing

Module 9: Social Engineering

- Introduction to Social Engineering & Its Types
 - Phishing
 - Vishing
 - Pretexting
 - Baiting
- Payload Attack
- HTA Attack
- Credential Harvester Attack
- Shellter

Module 10: Denial of Service

- Introduction of DOS Attack & Its Types
- Distributed Denial of Service DDOS
- Bonet

- DOS Attack
 - LOIC
 - HOIC
 - Hping

Module 11: Webservers Hacking (Metasploitable2)

- Web Services & Major Services
 - Apache2
 - FTP
 - Telnet
 - SSH
 - MySQL
 - PHP
 - PhpMyAdmin
- Webserver Reconnaissance
 - Netcraft
 - Whatweb
- Webserver Vulnerability Scanning
 - FTP Password
 - SSH Password
- Password Brute force (Metasploit)

Module 12: Evading IDS, Firewalls & Honey Pots

- Introduction To IDS, IPS Firewall , DMZ & Honey pots
- Honey Bot, Kfsensor
- Windows Advanced Firewall Rules
- Evading Firewall
 - Firewall Enable/Disable
 - Metasploit HTTPS Payload
 - Migrate Process
 - Bypass UAC

Module 13: Maintaining Access

- Persistence & Its importance
- Persistence_Exe
- Persistence through Registry

Module 14: Cryptography & Steganography

- Basic Concept of Steganography
 - Audio Steganography
 - Video Steganography
 - Image Steganography
 - Spam mimic.
- Introduction to Cryptography
 - Classic Cryptography
 - Modern Cryptography
- Modern Cryptography
 - AES Encryption
 - PGP Key Generation
- Basic Concept of Hashing
- Hash Calculator

Advance Penetration Testing / Bug Bounty

- Introduction to Web Pentesting and types of pentesting
- Intro to Bug Bounty
- Bug Bounty Methodology
- Web Server Configuration
- Web Application Lab Setup
- Burpsuite Pro with Licence
- Burpsuite Installation and proxy setup
- HTTP Headers and their importance
- HTTP methods Exploitation
- Broken Authentication
- Broken Access Control
- Information Disclosure
- Information Leakage in Debug Pages
- CSP Bypass
- Source code Disclosure via Backup Files
- Session Hijacking
- Understanding of Error Messages
- Cookie Manipulation
- Accessing Private User Data
- Understanding of Request Parameter
- Privilege Escalation
- Directory Traversal
- Bypassing Absolute Path Restriction
- Bypassing Hard-coded Extensions
- Bypassing Filtering
- Bypassing Advance Filtering
- Learning LFI with automation
- LFI to Remote code Execution
- LFI to Apache log poisoning
- SSH log poisoning
- RFI and its exploitation
- OS Command Injection
- Blind OS command Injection with time delays
- Understanding OS with out-of-band exfiltration
- Different types of File Upload
- HTML Injections and their types
- Creating different types of web payloads
- Open Redirect Attack
- Understanding of Regex
- SQL Injection and its types
- Cross Site Scripting and its types
- CSRF
- Violation of secure designed principles
- SSRF
- VAPT report writing & samples walkthrough