



---

## Training: Ethical Hacking & Cyber Security Program

---

### 1. A big talk on Cyber Crimes

- a. Daily cyber Activity by us
- b. Email Scams
- c. Social Media and Hacking scenario
- d. Smart phones and Risk
- e. Your Identity and Risk
- f. Indian business is not secure at all how?
- g. Growth of Cyber Crimes

### 2. Learn Ethical Hacking and protect your self

- a. What is Hacking and Ethical Hacking
- b. Why Hacking?
- c. Types of Hackers
- d. Legality of Ethical hacking
- e. Career in Ethical Hacking
- f. Bug bounty
- g. Security of and Organization
- h. Skills of a Hacker

### 3. Networking and Basics utility

- a. What is Identification of your Computer
- b. IP Address Private and Public
- c. Finding Remote IP address.
- d. What is Ports?
- e. Ipconfig and arp utility
- f. MAC address
- g. MAC address spoofing

### 4. Google Hacking

- a. What Operation of Google
- b. What is Google Hacking
- c. Advance search Operators
- d. Google Hacking Database.

## **5. Information Gathering**

- a. Information Gathering and Types
- b. NSlookup
- c. Domain information Gropper
- d. Who is Database and its work
- e. Gather public information
- f. Archive Pages
- g. Mirroring a Website by HTTrack
- h. Brute forcing with fierce

## **6. Scanning for Open ports**

- a. Scanning and Types
- b. Network scanning for Live hosts
- c. Port scanning
- d. Advance port scanner
- e. Daemon banner grabbing
- f. Getting running OS on Target machine
- g. Vulnerability scanning
- h. Nessus a wonderful tool

## **7. System Hacking (Windows and Linux)**

- a. Change windows password without current password
- b. Cracking windows 10 password
- c. By pass login screen by KON boot
- d. Protect windows getting hacked
- e. Cracking Linux password

## **8. Trojan, Virus, Worms and Keyloggers**

- a. Trojan and types
- b. Detecting Trojan by tools and manually
- c. Working of Virus and worms
- d. Virus analysis
- e. Detect virus and remove
- f. Spyware and adware
- g. Remove adware by tools and manually
- h. What is keylogger and types
- i. Live Demo

## **9. Data hiding Technique (Steganography)**

- a. NTFS Data Hiding Techniques

- b. Hide data inside Image
- c. Hide text file in image using Winrar
- d. Common tools used for data hiding.

## 10. Protect your personal Documents (Cryptography)

- a. Cryptography
- b. Symmetric and Asymmetric Algorithm
- c. Disk Encryption
- d. Tools used in Encrypt data
- e. Live Demo

## 11. Social Engineering Attack & SET

- a. Social Engineering
- b. Types of Social Engineering
- c. Deferent attack by Social Engineering
- d. SET Demo

## 12. Firewall

- a. Firewall and types
- b. Use of Free firewall for your machine

## 13. Honey pot

- a. Honey pot and types
- b. Demo for honeypot

## 14. Proxy

- a. Proxy and Types
- b. Use of Single proxy
- c. Bounce your IP Address like a Pro Hacker

## 15. VPN

- a. More Secure and Anonymous
- b. Some useful free VPN
- c. Browser based VPN
- d. TOR Browser

## 16. DOS and DDOS Attack

- a. What is DOS and DDOS
- b. Some DOS attack cases
- c. How to perform DOS attack
- d. How to prevent

- e. Live Demo for Attack

### **17. Session Hijacking and DATA Tampering**

- a. What is session?
- b. How to hijack Session.
- c. Hijack session of Facebook by cookies
- d. Data Tampering

### **18. Emails / Social Sites Hacking methodology (Facebook, twitter, LinkedIn, instagram)**

### **19. Hacking Browser / XSS and BEeF**

### **20. Wireless Attacks and Security**

- a. Wireless Standards
- b. Common Vulnerabilities in Wireless Devices
- c. Encryption Standards Used in Wi-Fi
- d. WEP Cracking
- e. WPS Cracking
- f. Countermeasures