



- **Course Name :** StartXHack V2.0 – Ethical Hacking & Cyber Security
- **Course Duration :** 2 Days (8Hrs./day)
- **Course Fee :** INR 1000/participant

✓ **Course Module :**

**1. Introduction to Ethical Hacking**

- a. What is Ethical Hacking?
- b. Who are Hackers?
- c. Types of Hackers
- d. Various Hacking Attacks Overview
  - i. SQLi (SQL Injection)
  - ii. XSS (Cross Site Scripting)
  - iii. System Hacking Attacks
    1. Offline Attacks
    2. Online Attacks
  - iv. Wireless Hacking
  - v. Metasploit
  - vi. RAT
- e. What is Hacktivism
- f. Case Study of Hacking Crimes
- g. Opportunities in the field of Cyber Security Domain

**2. Basics of Networking & Internet**

- a. What is IP?
- b. Classes of IP
  - i. Public & Private IP
  - ii. Dynamic & Static IP
- c. Introduction to CMD
  - i. Ping Command
  - ii. Tracing Route

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- iii. Address Resolution Protocol (ARP)
- iv. TTL (time to live)
- v. Network Statistics
- d. Introduction to DHCP
- e. Introduction to Virtual Machine
  - i. NAT and Bridge Mode
  - ii. Installing Operating System over Virtual Machine
- f. What are port numbers in computing

### 3. System Hacking

- a. Information at Hand Before System Hacking Stage
- b. System Hacking: Goals
- c. Hacking Methodology
- d. System Hacking Steps
- e. Cracking Passwords
- f. Password Cracking using Kali Linux
- g. Password Cracking using OPHCrack
- h. Offline Password Cracker
- i. Trinity Rescue Kit
- j. Konboot
- k. Any Linux Password Cracking
- l. Escalating Privileges
- m. Keyloggers
- n. Executing Applications
- o. Hiding Files
- p. Covering Tracks
- q. Countermeasures

### 4. Introduction to Metasploit

- a. What is Metasploit
- b. Basics of Metasploit

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- c. Introduction to Meterpreter
  - i. Webcam Hacking
  - ii. Remote Keylogger
  - iii. Stdapi
  - iv. Remote Desktop
  - v. Mozilla password, cookies, history hacking
  - vi. Timestomp
- d. Hacking Windows XP & 7

### 5. Introduction to Digital Forensics

- a. What is Digital Forensics
- b. File Carving

### 6. Email and Social Networking Sites Account Hacking

- a. What is Email?
- b. How Email Works?
- c. Make your machine SMTP Server
- d. Email Spoofing
- e. Email Bombing
- f. Phishing
  - i. What is Phishing?
  - ii. Facebook, Gmail, Twitter, Yahoo account hacking using phishing
  - iii. Phishing using Kali Linux
  - iv. Desktop Phishing
- g. Countermeasures

### 7. Wireless Hacking

- a. Wireless Concepts
- b. Wireless Encryptions
- c. Wireless Threats
- d. Wireless Hacking Methodology
- e. Wifi Discovery

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- f. Wireless Traffic Analysis
- g. Launch Wireless Attacks
- h. Cracking Wifi Encryption
  - i. Cracking WEP Encryption
  - ii. Cracking WPA Encryption
- i. Wireless Hacking Tools

### 8. Website Hacking

- a. SQL Injection
  - i. Normal SQLi
  - ii. Query based SQLi
- b. XSS Attack
- c. Web Ripping
  - i. HTTrack
  - ii. BlackWidow
- d. Web Backdoor Shell
- e. Countermeasures

### 9. Denial of Service (DoS) Attack

- a. DHCP DoS Attack
  - i. Dhcp Starvation Attack
- b. Introduction to DDoS (Distributed Denial of Service) Attack
  - i. BanglaDoS
- c. Countermeasures

### 10. Honeypot

- a. What is Honeypot
- b. Types of Honeypot
- c. Configuration and Installation of Valhala Honeypot

### 11. Virus, Trojans and Backdoors

- a. What is Virus?
- b. Types of Viruses
- c. Difference between Virus and Worm
- d. Making Virus using batch programming
  - i. App Bomber
  - ii. System Crasher
  - iii. Shutdown virus
- e. What is Trojan?
- f. Types of Trojan
  - i. Direct Connection
  - ii. Reverse Connection
- g. Injection system with Beast Trojan
- h. Making backdoors and accessing the system
- i. Countermeasures

### 12. Mobile Hacking

- a. Fake Calling
  - i. Softphones
  - ii. Websites

### 13. Social Engineering

- a. Shoulder Surfing
- b. SET in Kali Linux
- c. Mail Attachments
- d. Website Faking

### 14. Reverse Engineering

- a. What is Reverse Engineering
- b. Disassembling of Software
  - i. Ollydbg

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- ii. Win disassembler
  - c. Trial Version to Full version conversion
  - d. Counter Measures
- 15. RMAR Research Paper Discussion**
- a. Free Online Shopping from Ebay
  - b. Introduction to Hacking Credit Cards and performing Carding (Verbal)
  - c. Countermeasures