



# NANO SCIENTIFIC RESEARCH CENTRE

An ISO: 9001:2008 Certified Company

#604, 601 Siri Estates, Opp. Lane to R.S. Brothers, Ameerpet, Hyderabad-500016. Ph: 040-23754144

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## ETHICAL HACKING

### 1. Introduction to Ethical Hacking

- Overview Of Ethical Hacking
- Hackers Vs Ethical Hackers
- Different Types Of Hackers
- World Top Hacker's History
- Terminologies used in Hacking
- Skills Required To Become a Hacker

### 2. Foot printing, Information Gathering, Reconnaissance

- What is Information Gathering
- Active & Passive Information Gathering
- Google as a Information Gathering Agent
- Addons and Tool Based Footprinting
- Site For Footprinting

### 3. Hiding Identity(Proxy & vpn)

- Over view of proxy
- Online Proxy
- Proxy Tools
- VPNs & Bypass Restrictions Using Proxy and VPNs

### 4. Scanning & Enumeration

- Overview of TCP/IP 3 way Handshake
- Nmap scanning methods
- Nmap Script Engine
- Online Scanning



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- Some useful scanners
- Introduction to Enumeration
- SNMP Enumeration
- Banner grabbing

## 5. Advance Google Database Hacking

- Google and Its Working
- Dork For Google Hacking
- Tools For Google Hacking
- Web Crawling Tools
- Digging Email Passwords

## 6. System Virtualization & Cloning

- Virtualization
- Vmware
- VirtualBox
- Backup & Restore
- Cloning

## 7. System and Application Password Hacking

- Password Cracking
- Password Resetting
- Login Without Entering Password
- Linux password Resetting
- Password In Plain Text
- Securing System
- Rar, Pdf, MsOffice & Zip password cracking



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## 8. Kali Linux

- Introduction to Kali Linux
- Installation, Configuration and Maintenance
- Top 10 tools & Some other Useful Tools

## 9. Steganography & Cryptography

- Introduction to Stenography & Cryptography
- Data Hiding Behind Images, Videos Files Etc
- Data Hiding Tools
- ADS
- Cryptography

## 10. Viruses, Trojans, Worms and Malwares

- Introduction to viruses, worms, and Trojans
- Hacking by using some viruses, Trojans and worms
- Botnets
- Key logging
- Overview Of Malware Analysis
- Countermeasures

## 11. Email Hacking & Tracing Victim

- Phishing attack
- Tracing Victim
- Fake profile Investigating
- Profile Security

## 12. Network Attacks & Security

- DOS & DDOS Attack
- Buffer overflow (Brief Intro)



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- Sniffing
- IDS and Honeygot

## 13. Website Hacking

- Bypass Authentication
- SQL Injection
- Dumping Passwords
- Countermeasures

## 14. Wireless Password Cracking

- WEP Cracking
- WPA/WPA2 Password Cracking
- WI-FI Router Password Cracking

## 15. Vulnerability Assessment

- Introduction to VA-PT
- Nessus
- Acunetix
- Netsparker
- IBM AppScan