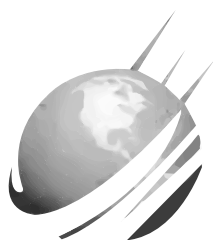




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About Next IT Career

Next IT Career Best Software Coaching Center in Hyderabad Corporate training is a function of human resource management that aims to provide the organization's employees with the knowledge and skills required to be successful. In turn, the growth of employees also contributes to the success of the business. In recent years, its also seen as a long-term strategic assignment rather than a cost center for the organization. The majority of companies have embraced 'continual learning' in it to promote employee growth both professionally and personally and acquire a highly skilled workforce as a result.



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Cyber Security & Ethical Hacking Training

The target audience for Ethical Hacking and Penetration Testing:

- Cybersecurity Professionals
- IT Administrators and Network Engineers
- Students and Aspiring Ethical Hackers
- Software Developers and Engineers
- Business Owners and IT Managers
- Bug Bounty Hunters and Security Researchers

Course Content

1. Fundamentals of Ethical Hacking
2. Pentest Lab setup and OS Command
3. Basic Networking
4. Reconnaissance & Enumeration
5. Network Scanning
6. Vulnerability assessment
7. System Hacking
8. Post Exploitation
9. Malware and Threats
10. Web Hacking
11. Social Engineering
12. Session Hijacking
13. Sniffing and Spoofing
14. Denial of Service
15. IDS, Firewalls, and Honeypots
16. Cryptography & Steganography
17. Bug bounty

Course Syllabus

Module 1: Fundamentals of Ethical Hacking

- Information Security Overview
- Information Security Threats and Attack Vectors
- Hacking Concepts and their Types
- Penetration Testing Concepts and their Types
- Scope of Ethical Hacking

Module 2: Pentest Lab setup and OS Command

- Fundamental of VMware and Virtual Box
- VM Network Setting (NAT/Bridge/Host-only)
- Virtualization of Windows and Linux
- Installation of Kali Linux
- Tools: VMware and Virtual Box
- OS: Windows, Linux and Kali Linux

Module 3: Basic Networking

- Fundamental IP Address & Subnet Mask
- Network Devices
- OSI Layer Model vs TCP/IP Model
- ARP, ICMP, TCP, UDP protocol
- TCP Flags
- TCP 3-way handshake
- Well known Services Port

Module 4: Reconnaissance & Enumeration

- OSINT Framework
- Email Footprinting
- DNS Footprinting
- Web FootPrinting
- Google Hacking Database

Module 5: Network Scanning

- Host Discovery
- OS Fingerprinting
- Subnet Scanning
- Default Scan
- Stealth Scan
- TCP Scan
- UDP Scan
- Specific port Scan
- ALL port Scan
- Version Scan
- Script Scan
- Decoy Scan
- Fast Scan
- Time Scan
- Aggressive Scan

Module 6: Vulnerability assessment

- Introduction to Vulnerability Assessment
- Vulnerability Scanning and Tools
- Reporting and Remediation

Module 7: System Hacking

- Scanning Vulnerability
- Exploiting Vulnerability
- Password Brute Force
- Creating Malicious File Type (eg: Exe, Elf, apk)
- Metasploit Framework – Auxiliaries, Exploits, Payloads Post Modules and meterpreter
- Msfvenom Framework

Module 8: Post Exploitation

- Post Enumeration
- Gathering System information
- Gathering User Information

- Download and Upload operations
- Process Migrate
- Web Camera Hacking
- Collect Stored Credentials (System, Browser, Wifi)
- Privilege Escalation to gain Administrator Access
- Hashdump
- Clear Event logs
- Persistence to maintain permanent access
- Tools: Metasploit Post Modules

Module 9: Malware and Threats

- Malware Concept
- Techniques used for Spreading Malware
- Trojan Concept Vs Virus and Worm

Module 10: Web Hacking

- Introduction to Web Server and Web Applications
- Well Know web servers and CMS
- Introduction to OWASP
- Website Scanning
- Introduction to burp suite
- SQL injection
- Cross-Site Scripting
- Remote command Execution
- Brute Force
- SSRF
- CSRF
- File Upload
- Information Disclosure

Module 11: Social Engineering

- Social Engineering Concepts
- Social Engineering Techniques
- Haveibeenpwned
- Detect a phishing attack

Module 12: Sniffing and Spoofing

- Introduction Sniffing and Its Types
- Spoofing
- Man-in-the-Middle Attack
- ARP Poisoning
- DNS Poisoning
- Password Sniffing
- HTTP Password Capture
- Telnet Password Capture
- FTP Password Capture

Module 13: Denial of Services

- Introduction of DOS Attack & Its Types
- Distributed Denial of Service DDOS
- Botnet
- DOS Attack
- SYN Flood
- ICMP Flood
- UDP Flood
- TCP Flood
- Blue Screen Death Attack

Module 14: Session Hijacking

- Session Hijacking Concepts
- Application-Level Session Hijacking

- Network-Level Session Hijacking
- Session Hijacking Tools
- Session Hijacking Countermeasures

Module 15: IDS, Firewalls, and Honeypots

- Introduction to IDS, IPS Firewall, DMZ & Honeypots
- Honey Bot, Kfsensor
- Windows Advanced Firewall Rules
- Evading Firewall
- Event Log Management
- Fundamentals of DLP

Module 16: Cryptography & Steganography

- Introduction to Information Security & CIA Model
- Basic Concept of Encoding
- Base64
- Binary
- Hexa Decimal
- Basic Concept of Steganography
- Image, audio and file-based Steganography
- Introduction to Cryptography
- Cesar cypher
- Rot 13
- Modern Cryptography
- AES Symmetric Encryption
- PGP Asymmetric Encryption
- Basic Concept of Hashing

Module 17: Bug Bounty

- Hacker one
- Bugcrowd

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