



MERSENNE CYBERCOUNSELLORS LLP

Course Syllabus: Introduction to Ethical Hacking Tools

Course Overview:

This 4-week hands-on course provides practical knowledge on using industry-standard ethical hacking tools. Participants will gain experience with network scanning, vulnerability assessment, exploitation, and traffic analysis using tools such as Nmap, Metasploit, and Wireshark.

Course Details:

- **Duration:** 4 Weeks
 - **Fee:** ₹8,000
 - **Mode:** Online/Offline (as applicable)
 - **Prerequisites:** Basic understanding of networking and cybersecurity
 - **Certification:** Upon successful completion, participants will receive a certification from Mersenne Cybercounsellors LLP
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Week 1: Fundamentals of Ethical Hacking and Reconnaissance

- Introduction to Ethical Hacking and Security Testing
- Understanding the Role of Hacking Tools in Cybersecurity
- Footprinting and Information Gathering
- **Hands-on Lab:** Reconnaissance with Nmap and OSINT Techniques

Week 2: Network Scanning and Vulnerability Assessment

- Network Scanning Techniques (Active vs. Passive)
- Understanding and Using Nmap for Port Scanning
- Identifying Vulnerabilities with Nessus and OpenVAS
- **Hands-on Lab:** Scanning Networks and Detecting Vulnerabilities

Week 3: Exploitation and Penetration Testing Tools

- Introduction to Metasploit Framework
- Exploiting System Vulnerabilities Using Metasploit
- Password Cracking Techniques (John the Ripper, Hydra)
- **Hands-on Lab:** Running Exploits and Gaining Access

Week 4: Network Traffic Analysis and Reporting

- Introduction to Wireshark for Packet Analysis



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- Detecting Malicious Traffic and Intrusion Detection
 - Security Reporting and Ethical Hacking Documentation
 - **Final Project:** Conducting a Complete Ethical Hacking Assessment
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Assessment & Certification:

- Weekly hands-on labs and exercises
- Final practical assessment and reporting
- Certification of Completion from Mersenne Cybercounsellors LLP

Target Audience:

- Cybersecurity beginners and IT professionals
- Ethical hacking enthusiasts and students
- System administrators and security analysts

Learning Outcomes:

- Understand the role of ethical hacking tools in security testing
- Perform reconnaissance, scanning, and vulnerability assessments
- Exploit vulnerabilities using Metasploit and analyze network traffic
- Generate professional security reports based on hacking tool outputs

For inquiries and enrollment,

contact us at : **7499076330**

email at : info.cybercounsellors@gmail.com