Prutor@IITK
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+91 99100 43510
https://prutor.ai/
prutor.ai@gmail.com

Certified Ethical Hacking (CEH)

Course Curriculum

Module 01 - Introduction to Ethical Hacking
- Information Security
- Information Security Controls
- Penetration Testing Concepts
- Information Security Laws and Standards

Module 02 - Footprinting and Reconnaissance
- Footprinting
- Competitive Intelligence
- Footprinting Tools
- Countermeasures
- Footprinting Pen Testing

Module 03 - Scanning Networks Getting
- Scanning Tools
- Scanning Techniques
- Scanning Beyond IDS and Firewall
- Banner Grabbing
- Draw Network Diagrams
- Scanning Pen Testing

Module 04 - Enumeration
- Enumeration Concepts
- NetBIOS Enumeration
- SNMP Enumeration
- LDAP Enumeration
- NTP Enumeration
- SMTP Enumeration and DNS Enumeration
- Enumeration Countermeasures
- Other Enumeration Techniques
- Enumeration Pen Testing

Module 05 - Vulnerability Analysis
- Vulnerability Assessment Concepts
- Vulnerability Assessment Solutions
- Vulnerability Scoring Systems
- Vulnerability Assessment Tools
- Vulnerability Assessment Reports

Module 06 - System Hacking
- System Hacking Concepts
- Cracking Passwords
- Escalating Privileges
- Executing Applications
- Hiding Files
- Covering Tracks
- Penetration Testing

Module 07 - Malware Threats
- Malware Concepts
- Trojan Concepts
- Virus and Worm Concepts
- Malware Analysis
- Countermeasures
- Anti-Malware Software
- Malware Penetration Testing

Module 08 - Sniffing
- Sniffing Concepts
- Sniffing Technique
- Sniffing Tools
- Countermeasures
- Sniffing Detection Techniques
- Sniffing Pen Testing

Module 09- Social Engineering
- Social Engineering Concepts & Techniques
- Insider Threats
- Impersonation on Social Networking Sites
- Identity Theft
- Countermeasures
- Social Engineering Penetration Testing

Module 10- Denial-of-Service
- DoS/DDoS Concepts & Attack Techniques
- Botnets
- DDoS Case Study
- DoS/DDoS Attack Tools
- Countermeasures
- DoS/DDoS Protection Tools
- DoS/DDoS Attack Penetration Testing

Module 11- Session Hijacking
- Session Hijacking Concepts
- Application Level Session Hijacking
- Network Level Session Hijacking
- Session Hijacking Tools
- Countermeasures
- Penetration Testing

Module 12 - Evading IDS, Firewalls, and Honeypots
- IDS, Firewall, and Honeypot Concepts & Solutions
- Evading IDS
- Evading Firewalls
- IDS/Firewall Evading Tools
- Detecting Honeypots
- IDS/Firewall Evasion Countermeasures
- Penetration Testing

Module 13- Hacking Web Servers
- Web Server Concepts
- Web Server Attacks
- Web Server Attack Methodology
- Web Server Attack Tools
- Countermeasures
- Patch Management
- Web Server Security Tools
- Web Server Pen Testing

Module 14- Hacking Web Applications
- Web App Concepts & Threats
- Hacking Methodology
- Web Application Hacking Tools
- Countermeasures
- Web App Security Testing Tools
- Web App Pen Testing

Module 15- SQL Injection
- SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- Evasion Techniques
- Countermeasures

Module 16- Hacking Wireless Networks
- Wireless Concepts
- Wireless Encryption
- Wireless Threats
- Wireless Hacking Methodology
- Hacking Tools
- Bluetooth Hacking
- Countermeasures
- Wireless Security Tools
- Wi-Fi Pen Testing

Module 17- Hacking Mobile Platforms
- Mobile Platform Attack Vectors
- Hacking Android OS
- Hacking iOS
- Mobile Spyware
- Mobile Device Management
- Mobile Security Guidelines and Tools
- Mobile Pen Testing

Module 18- IoT Hacking
- IoT Concepts
- IoT Attacks
- IoT Attacks Hacking Methodology
- IoT Hacking Tools
- Countermeasures
- IoT Pen Testing

Module 19- Cloud Computing
- Cloud Computing Concepts
- Cloud Computing Concepts Threats
- Cloud Computing Concepts Attacks
- Cloud Security
- Cloud Tools
- Cloud Penetration Testing

Module 20- Cryptography
- Cryptography Concepts & Tools
- Encryption Algorithms
- Public Key Infrastructure (PKI)
- Email Encryption
- Disk Encryption
- Cryptanalysis
- Countermeasures

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