

## Internship On Ethical Hacking Essentials (Cyber Security)

- ✚ **Introduction to Ethical Hacking** (Hacking Terminologies, Ethical Hacking concepts and scope, Information Security controls & Cyber Security)
- ✚ **Foot printing** (concepts and Objectives)
- ✚ **Overview of network scanning** (Scanning Methodology)
- ✚ **Vulnerability Assessment** (Vulnerability Management cycle, Vulnerability)
- ✚ **Assessment solutions**
- ✚ **System Hacking Methodology** (Gain Unauthorized Access, Escalating Privileges)
- ✚ **Introduction to Malware** (Various malware, and threats)
- ✚ **Social Engineering Concepts** (Social Engineering Techniques)
- ✚ **DoS/DDoS Concepts** (Dos/DDOs Attack Techniques)
- ✚ **IDS Firewall and Honeypot concepts**
- ✚ **SQL Injection concepts** (Types of SQL Injection)
- ✚ **Wireless Hacking Methodology** (Hacking Wireless Networks)
- ✚ **Mobile Platform Attack vectors** (Hacking Mobile Platforms)
- ✚ **Introduction to cloud Computing** (Cloud computing Threats)
- ✚ **Penetration testing processes**
- ✚ **Open-source intelligence** (social engineering)
- ✚ **Topology discovery**
- ✚ **OS fingerprinting** (Configuring Firewalls)
- ✚ **Intrusion detection and prevention** (Malware threats, Configuring anti-virus software)
- ✚ **Enhanced mitigation** (Experience toolkit, Logging, and analysis, Packet capture, Packet capture tools)
- ✚ **Log review and SIEM** (SIEM data outputs, SIEM data analysis, Point-in-time data analysis)
- ✚ **Managing Vulnerabilities** (Vulnerability management requirements, Asset inventory, Data classification)
- ✚ **Vulnerability Scanners**
- ✚ **SCAP** (Configuring Vulnerability Scans, Vulnerability scanning criteria, Exploit Frameworks)
- ✚ **Remediating Vulnerabilities** (Analyzing Vulnerability scans, Remediation and change control)
- ✚ **Software security testing**
- ✚ **Interception proxies** (Web application firewalls, Source authenticity, Reverse engineering)
- ✚ **Incident response Processes**
- ✚ **Forensics tools** (Digital forensics crime scenes)
- ✚ **Digital forensics kits** (Image acquisition, Password cracking, Analysis utilities, Incident analysis and recovery)
- ✚ **Analysis and recovery frameworks** (Analyzing network symptoms, analyzing host symptoms, Analyzing Data Exfiltration, Analyzing application symptoms)
- ✚ **Using Sys internals** (Containment techniques, Eradication techniques, Validation techniques, Corrective actions)
- ✚ **Secure network design** (Network segmentation, Blackholes, Sinkholes, and Honeypots, System hardening)
- ✚ **Project on windows password cracking and check footprints**