

Topics under Ethical Hacking & Cyber Security

Cyber Security & Ethical Hacking

- Need of cyber security
- Ethical hacking
- Types of hackers
- Penetration Testing
- Footprinting
- Footprinting techniques

Cryptography

- Types of Cryptography
- Symmetric / Asymmetric
- Digital Signatures
- Hash functions

Computer Networks & Security

- Computer Network Architecture; Layered Architecture
- OSI Model
- TCP / IP Model
- Common Network Threats

Application & Web Security

- Web server architecture & attacks
- Web client architecture & attacks
- Counter measures & patch management

Identity & Access Management (IdAM)

- Authentication
- Authorization
- IdAM
- Password protection
- Identity threats

Vulnerability Analysis (VA) & System Hacking

- VA Types
- VA Lifecycle
- VA Tools
- Vulnerability scoring system
- VA Report

System Hacking
Password cracking
Privilege escalation, hiding files, clearing logs

Sniffing & SQL Injection

Malware & its types
Sniffing attacks & its types
SQL injection & its types

Denial of Service (DoS) & Session Hijacking

DoS attacks & symptoms
DoS detection
System Hijacking
Session / Application level hijacking
Intrusion Detection Systems (IDS) & types
Firewalls & Types
Honeypots
Evading IDS