

CYBER SECURITY EXPERTS



COMMON TERMINOLOGY

- What is cyber security
- Hacking
- White hat hackers
- Black hat hackers
- Grey hat hackers
- Vulnerability assessment
- Exploit
- payloads

PHASES OF PENETRATION TESTING

- Footprinting
- Scanning
- Gaining access
- Maintain access
- Clearing tracks

BASIC CONCEPTS OF NETWORKING

- Networking devices
- TCP IP
- Subnetting
- Understanding service
- DNS server
- DHCP server
- Nat server
- Web server

CRYPTOGRAPHY

- Key terminologies
- Technologies used in cryptography
- Symmetric encryption scheme
- Asymmetric encryption scheme
- Public key cryptography
- Hashing technologies
- Brute force attacks
- dictionary attacks
- Rule based Attacks
- Rainbow table attacks
- Steganography

FOOTPRINTING

- Targets of footprinting
- IT infrastructure
- Organizational infrastructure
- Foot printing using Google

- Foot printing using Whois
- Foot printing using DNS queries
- Foot printing using command line utilities
- Ping
- Tracert
-

NETWORK SCANNING

- Scanning open ports
- Defense against port scanner
- Scanning tools

SPOOFING

- IP address spoofing
- MAC address spoofing
- SMS spoofing
- URL spoofing
- Email spoofing
- Arp spoofing
- DNS spoofing

WINDOWS FIREWALL

- Firewall In Windows
- Configuring Windows Firewall
- Windows Firewall Advanced Security
- Inbound & Outbound Rules?

WEB APPLICATION VULNERABILITY

- Cross site scripting (XSS)
- Cross site request forgery (CSRF)
- Brute force attack
- No rate limit
- Session and cookies
- File inclusion
- Directory traversal attack
- Host header attack

SQL INJECTION

- Error based
- Union based
- Blind based

SYSTEM SECURITY

- Introduction to OS
- Windows
- Linux
- User centered attacks

MALWARES

- Virus
- Worm
- Trojan
- Rootkit
- Bots
- Adware
- Key loggers

SOCIAL ENGINEERING

- Phishing
- Shareware
- Tailgating
- Pop ups
- Shoulder surfing
- Dumpster diving

DENIAL OF SERVICE ATTACK

- DOS Attack
- DDOS

INTRODUCTION TO CLOUD SECURITY

- What is cloud
- Categories of Cloud Computing
- Cloud Security