

CYBER SECURITY

1) Why Security?

2) Why Attacks?

3) Hacking Introduction

4) Types Of Hackers

5) Steps To Become A Good Ethical Hacker

6) Basics

- a) Ip Address
- b) Versions, Types, Classes And Categories Of Ip Address
- c) Tcp And Udp Protocols
- d) Tcp Vs Udp
- e) Mac Address
- f) 3 Way Handshake Rule
- g) Ports Introduction

7) Information Gathering

- a) Ping
- b) Traceroute
- c) Dns Lookup/Ns Lookup
- d) Whois
- e) Ip Lookup
- f) Os Detection
- g) Email Information Gethering
- h) Website Mirroring
- i) Website Information Gathering
- j) People Hacking
- k) Restore Deleted Items
- l) Using Gmail Like A Pro
- m) Onion Routing And Torrents
- n) Maltego Search Engine

8) Scanning And Enumeration

- a) Introduction To Vapt
- b) Why Scanning?
- c) Types Of Scanning
- d) Port Scanning Using Nmap
- e) Dbg (Daemon Banner Grabbing)
- f) Netcat
- g) Web Server Scanning Using Various Tools
- h) Network Vulnerability Scanning Using Openvas
- i) Web Application Scanning Using Paros

9) Malwares And Rats

- a) Virus,Worms,Malware,Spyware, Adware,Rootkit,Trojans
- b) Creating Simple Virus
- c) Creating Simple Worm
- d) Rats
- e) What Are Trojans And How Do They Work?
- f) Creating Trojans
- g) Hack A Computer Using Trojan
- h) Virus Scanning Using Virustotal.Com
- i) Issues In Sending And Executing A Trojan

10) Phishing And Its Prevention

- a) Phishing Introduction
- b) Steps To Perform Phishing
- c) Tricks To Phishing
- d) Phishing Using Set
- e) Click Jacking, Dll Hijacking And Tab Napping Using Set
- f) Precautions
- g) Advanced Phishing Attacks

11) Password Cracking And Its Prevention

- a) Technique For Password Cracking
- b) Cracking Unix Login Passwords
- c) Cracking Windows Login Passwords
- d) Types Of Password Cracking Attacks
- e) Cracking Bios Password
- f) Cracking Browser Passwords
- g) Syskey
- h) Captcha
- i) Web Application Password Cracking
- j) Network Password Cracking Using Hydra
- k) Introduction To Burp Suite

12) Steganography And Cryptography

- a) Introduction To Cryptography
- b) Public Key And Private Key Cryptography
- c) Introduction To Steganography
- d) Ads
- e) Image Steganography Using Stools
- f) White Space Steganography Using Snow
- g) Prevention

13) Sql Injection And Its Prevention

- a) What Are Databases And Sql?
- b) Creating Sql Queries
- c) Introduction To Sql Injection
- d) Magic Queries
- e) Types Of Sql Attacks
- f) Testing For Vulnerability
- g) Exploiting Vulnerability
- h) Enumerating Database Name And Version

- i) Enumerating Table Names
- j) Enumerating Column Names
- k) Enumerating Data From Column Names
- l) Manual Technique
- m) Automated Tools- Sqlmap And Havij
- n) Prevention

14) Google Hacking

- a) How Google Works
- b) Basic Operators
- c) Dorks
- d) How To Find Vulnerable Websites

15) Hacking Web Servers

- a) Introduction
- b) Web Application
- c) What Are Shells?
- d) List Of Shells
- e) Hacking Servers Using Metasploit
- f) Xss Attacks
- g) Introduction To Html And Javascripts
- h) What Is Xss?
- i) Severity Of Xss
- j) How To Test For Xss
- k) How To Exploit Xss
- l) Cookie Grabbing Using Xss

16) Reverse Engineering

- a) What Is Assembly Language?
- b) What Are Instructions?
- c) Cracking Poweriso Password Using Ollydbg
- d) Patching

e) Countermeasures

17) Metasploit Framework Using Kali Linux

- a) Introduction
- b) Hands On Commands
- c) Introduction To Virtual Machines
- d) Port Scanning Using Metasploit
- e) Msfvenom
- f) Msfencode
- g) Exploitation Attack
- h) Meterpreter
- i) Post Exploitation Attack
- j) Hacking Windows With Metasploit

18) Wireless Hacking And Security

- a) Wireless Protocols
- b) Wireless Router Working
- c) Attacking On Wireless Routers
- d) Cracking Wep.Wpa And Wpa2
- e) Counter Measures

19) Voip Hacking And Security

- a) Sms Forging And Introduction
- b) Call Forging And Countermeasures
- c) Sending Fake Emails
- d) Sending Fake Sms And Calls
- e) Forensics

20) Dos Attacks

- a) How It Works?
- b) Types Of Dos Attacks
- c) Syn Flooding Using Colasoft Packet Builder

- d) Limitation Of Dos Attack
- e) Ddos Attacks Using Loic
- f) Reflective Dos Attacks
- g) Protecting Yourself

21) Kali Attacks

- a) Popular Kali Attacks
- b) Using Top 10 Kali Tools
- c) Mitm Attack Using Arpspoof
- d) Making Dictionary Using Crunch
- e) Firewall Detection Using Waafw00f
- f) Fuzzing Using Sfuzz
- g) Various Other

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