

Cyber Security

'Cyber security is the practice of defending computers'

Introduction to Cyber Security with Ethical Hacking

- Foot printing
- Scanning & Enumeration
- System Hacking
- Plant Root kits & Backdoors
- Covering Tracks
- Expanding Influence

Basics Of Internet, Networking

- What is a Network?
- Types of network – LANs, WANs & WLANs
- What is Internet?
- Basic Structure
- What is a Server?
- What is an IP Address?
- What is a domain name?
- IP-Domain Relation
- Client-Server Relationship Model
- Internet networking
- Set up Ad-hoc networks
- Basic explanation of exploitation of loopholes

SQL Injection Using DVWA

- Introduction of SQL
- What are SQL INJECTION and DVWA?
- Checking SQL injection vulnerability (Demo)
- Basic strategy of SQL injection (Demo)
- Getting login credentials using SQL injections (Live Demo)
- URL and Forms (Demo)
- SQL Query SELECT, DROP etc. (Demo)
- SQL cheat sheets (Demo)

- Using source changes to bypass client side validation (Demo)
- Live demonstration of the attack (Demo)
- Using SQL injection tools (Demo)
- How to protect your system from attacks

Man In The Middle Attack(MITM)

- What is Backtrack Linux?
- What is Man-in-the-middle attack?
- Preparation for Man-in-the-middle attack (Demo)
- Setting Ettercap tool for the attack (Demo)
- Identifying victim (Demo)
- Countermeasures against MITM attack (Demo)

Phishing, Trojan, Worms and Viruses

- What is phishing?
- Preparation for phishing
- Introduction to the concepts of Trojans, worms and viruses

Email FORGING AND CYBER LAWS

- What is Email Forging?
- How to generate a Fake Mail?
- How to detect a fake Email?
- Introduction to cyber laws

Advance Wireless Hacking

- WEP Cracking
- WifiPwning
- Countermeasures

Introduction to Virtual Machine

- Basic Introduction
- How to create machine

Live Practical's

Google hacking

- Live demonstration of Google dorks.
- Magic of 94FBR

Wifi hacking and Preventions

- Wifi hacking Tools
- How to protect our wifi

Live Booting

- How to create booting
- Hacking through a live booting.

Domain hosting for social media safety

- Creation of free domain
- Facebook account hacking on local server.
- Facebook phishing live on server
- Gmail account hacking on local server.
- How to protect your Information

Real Server hacking

- Account hacking on real server.

Stenography

- Hide a text file in an image file.
- Hide a text file in an audio/video file.
- Hide executable file in an image file.

Fake link preventions

- Sending a fake email
- Understand Fake messages
- Understand Fake emails
- Understand Fake links

How to create Virus and Preventions

- Creation of a virus to automatically shutdown the computer.
- Shutdown the laptop by sending an email Virus.
- How to protect our system

Virtual setup of Operating system

- Creation of virtual environment for session hijacking.
- Sniffing of username and password from a virtual network

Operating system hacking and Preventions

- On virtual network
- Live Practical

Real time hacking and protection techniques on BIOS

Masking Concept Practical with networking tool