

OVERVIEW

Ethical Hacking Workshop mainly focuses on the students eager to be a White Hat Hacker. It features a brief introduction to the world of hacking starting with the importance of *ethical hackers* and their need in today's world scenario, including to the basics of **networking** that will help you have a deep understanding of the working of internet.

Later, windows hacking using various methods will be introduced and in the module of steganography you will learn how to hide files in other files in order to protect sensitive data. After the end of the aforementioned module you will be learning phishing in which you will be taught How to hack Facebook Accounts and Gmail Accounts and thus how to avoid it.

In the end you will gain knowledge about the basics of Backtrack 5 and the concept of man in the middle attack (MITM ATTACK).

The duration of this workshop will be two consecutive days with eight hours session each day, in a total of sixteen hours properly divided into theory and hand on practical sessions. At the end of this workshop a competition will be organized among the participating students where each participating student will get Certificate of Participation and the Winners will get Certificate of Merit.

Day 1 (Session 1)

Ethics and Hacking

- Hacking History- How It All Began
- Need For Ethical Hacking
- Why We Require Ethical Hackers
- Types Of Hackers
- Steps In Ethical Hacking
- Scopes In Hacking

Windows Hacking

To exploit the vulnerabilities of windows using live devices and Universal Serial Bus (USB).

Steganography

What is Steganography?

• Hiding data behind Images, PDFs, Audio and Videos files



Day 1 (Session 2)

Basics Of Internet, Networking And Hacking

- 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

Day 2 (Session 3)

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

Day 2 (Session 4)

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

IT Acts, Rules and Regulation

Contact :- S.No 27, Kharadi Industrial Area, Kharadi, Pune-411014.

Ph:- +91-9850900020