

Ethical Hacking

- a. Introduction
 - i. What is hacking
 - ii. Difference between ethical and unethical hacking
 - iii. The this grey line of ethics

- b. Types of Hackers
 - i. Black hat
 - ii. white hat
 - iii. grey hat
 - iv. newbie
 - v. script kiddies, etc.

- c. Cyber Laws and Restrictions
 - i. Computer Misuse Act
 - ii. Data Protection Act

- d. What is Linux Kali, LAMP and VMWare
 - i. Introduction to Linux
 - ii. Introduction to LAMP Server
 - iii. Difference between a server and a host
 - iv. Introduction to hypervisor and VMWare
 - v. What is Linux Kali and why is it so famous?

- e. Understanding and using Linux
 - i. Installing VMWare
 - ii. Installing Linux Kali
 - iii. Familiarizing with Linux
 - iv. Basics about Linux Kali

- f. Understanding Network, IP and Websites
 - i. Introduction to networking
 - ii. Private IP and Public IP
 - iii. Understanding network from IP address
 - iv. How are websites hosted

- g. All about bWAPP and DVWA
 - i. What are deliberately vulnerable web apps
 - ii. What is bWAPP and DVWA
 - iii. Use of vulnerable web apps





- h. Reconnaissance
 - i. What is reconnaissance
 - ii. Why is it important
 - iii. Ways of performing reconnaissance

- i. Nmap
 - i. Network mapping
 - ii. Types of nmap scans
 - iii. Difference between scans and their uses

- j. OSINT (Open-Source INTElligence)
 - i. What is OSINT?
 - ii. Why is OSINT used?

- k. Reconnaissance Tools
 - i. Introduction to other recon tools

- l. SQLI (Manual & Automated)
 - i. What is SQLI
 - ii. Manual SQLI
 - iii. Automatic SQLI

- m. XSS (Manual & Automated)
 - i. What is XSS
 - ii. Manual XSS
 - iii. Automatic XSS

- n. XSRF (Manual & Automated)
 - i. What is XSRF
 - ii. Manual XSRF
 - iii. Automatic XSRF

- o. Directory Traversal
 - i. Introduction to directory traversal
 - ii. Use of directory traversal

- p. Using BurpSuite and OWASP ZAP
 - i. What is the use of intercept tools
 - ii. Comparing BurpSuite and OWASP ZAP
 - iii. Using BurpSuite modules





- q. Finding tools on GitHub
 - i. What is GitHub
 - ii. Why is open-source community so important
 - iii. Contributing to the open-source community

- r. Exploring other hacking playgrounds
 - i. What are hacking playgrounds
 - ii. Where to find them
 - iii. How to use and practise in these hacking playgrounds

