Cybersecurity Bootcamp

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Cybersecurity

Cybersecurity is the practice of protecting computer systems, networks, programs, and data from digital attacks, damage, unauthorized access or theft

CIA

CIA Triad

Confidentiality

Prevention of unauthorized disclosure/access of Information

Integrity

Maintaining and ensuring unauthorized alteration of data

Availability

Accessibility of services and information for authorized parties

The Basics
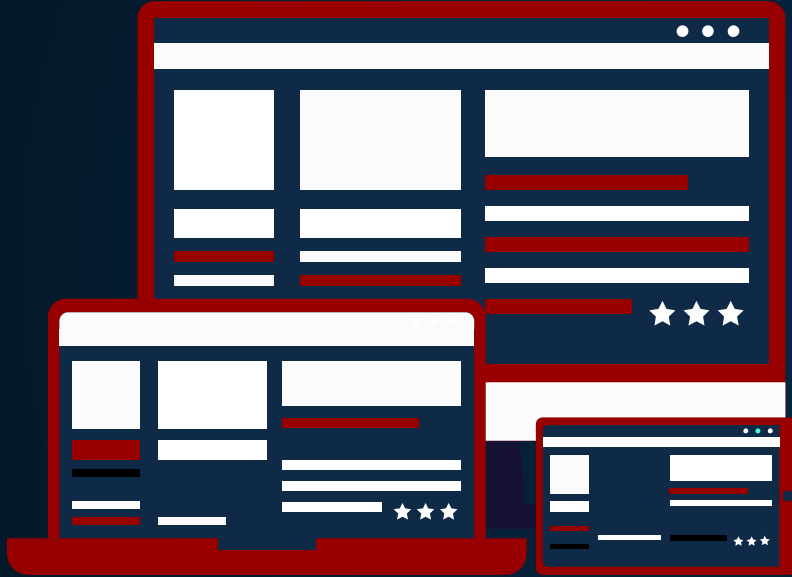
Operating System

Networking

Tools

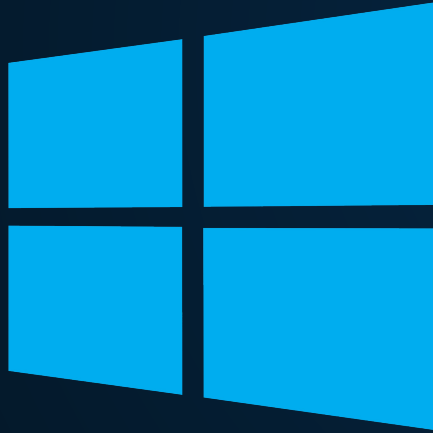# Operating System

Linux ♥

Windows

macOS

Linux

Is a free, Open source operating system, released under the GNU general public license (GPL)

➢ Most popular amongst security professionals
➢ Some of the most popular used by security professionals are
   ○ Kali Linux
   ○ Parrot Security OS
   ○ Arch Linux
   ○ etc..

Windows

Is an operating system developed by microsoft.
➢ Most widely used among the general people
➢ GUI based Operating system

mac OS

Is an operating system developed and marketed by Apple.

Mac OS

Networking

Nowadays everything is connected through a network. Knowing about how this connection work and the protocols involved in making this thing happen is crucial in the field of cybersecurity.

Networking

In a simplest terms, A network is a group of connected computers that are able to send data to each other having their own unique address called IP Address.

A global network of this billions of computers and other electronic devices is called the Internet.

OSI Model	TCP/IP Model	TCP/IP Protocol Suite
Application Layer	Application Layer	HTTP SMTP Telnet FTP DNS RIP SNMP
Presentation Layer		
Session Layer		
Transport Layer	Transport Layer	TCP UDP
Network Layer	Internet Layer	ARP IP IGMP ICMP
Data Link Layer	Network Access Layer	Ethernet Token Ring ATM Frame Relay
Physical Layer		

Tools

This are some of the basics and most popular tools that hackers use.

- ➢ Wireshark
- ➢ John the ripper
- ➢ Hydra
- ➢ BurpSuite
- ➢ Tshark
- ➢ Ffuf
- ➢ Nmap
- ➢ Metasploit

Exercise

1. https://tryhackme.com/r/room/windowsfundamentals1xbx
2. https://tryhackme.com/room/linuxfundamentalspart1
3. https://tryhackme.com/room/linuxfundamentalspart2
4. https://tryhackme.com/room/linuxfundamentalspart3
5. https://tryhackme.com/room/introtonetworking
6. https://tryhackme.com/r/room/furthernmap
7. https://tryhackme.com/room/nmap01
8. https://tryhackme.com/room/metasploitintro
9. https://tryhackme.com/room/hydra

Exercise

10. https://tryhackme.com/room/ffuf
11. https://tryhackme.com/room/burpsuitebasics