

Cyber Security

Basic Level

- Windows
 - ✓ What is window?
 - ✓ Installing window OS.
 - ✓ What is a PE file and other executable file formats?
 - ✓ How to install applications on window?
 - ✓ Windows Server
 - ✓ Privileges in Window?
 - ✓ What is active directory?
- Linux
 - ✓ What is an OS?
 - ✓ What is unix?
 - ✓ What is Linux?
 - ✓ Linux file structure
 - ✓ Hands-on linux installation using oracle virtual machine.
 - ✓ Hands-on with Ubuntu 23.10 linux ,
 - ✓ Essential linux commands
 - ✓ Permission
 - ✓ Creating users & group
 - ✓ ELF file format & structure
 - ✓ Installing application on linux
 - a. Creating environment variable
 - b. Installing application
 - c. Installing GUI based application
 - d. Hands-on creating a globally executed CLI-based tool
 - ✓ What is Cronjob
 - ✓ Hands-on Cronjob
 - a. Configuring cronjob
 - b. Executing scripts on a particular time and interval
- Networking Basics
 - ✓ What is network?
 - ✓ Network topology

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- ✓ Network model
 - a. LAN
 - b. VAN
 - c. MAN
- ✓ What is OSI model?
- ✓ Network mapping
- ✓ TCP/UDP
- ✓ What is MAC?
- ✓ What is IP address?
- ✓ IP address types
- ✓ What is local host?/127.0.0.1
- ✓ What is 0.0.0.0 IP address?
- ✓ Hands-on networking
 - a. Assigning static IP
 - b. Assigning DHCP
- ✓ What is interface?
- ✓ Hands-on networking using VM(using oracle VM)
- ✓ What is router and switch?
- ✓ What are protocol service
 - a. http
 - b. https
 - c. ftp
 - d. ssh
- ✓ What is domain?
- ✓ What is DNS?
- ✓ What is hosting?
- ✓ Hands-on DNS managements and website
 - a. How to manage DNS?
 - b. Hosting a website
 - c. Assigning hosting server
 - d. Creating your own blog(bhashit.in)
- ✓ Creating your own DNS server
- ✓ How to do host mapping via host file in OS?
- Network Security - Basics
 - ✓ What is SSL?
 - ✓ What is TSL?
 - ✓ What is VPN?
 - ✓ Types of VPN?
 - ✓ Hands on VPN-hosting a small website locally

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- ✓ What is firewall?
- ✓ How DNS based firewall works?
- ✓ Hands-on ufw firewall – removing and allow access on ubuntu
- Programming basics
 - ✓ Bash basics
 - ✓ js basics
 - ✓ Power shell basics
 - ✓ Developing a problem-solving mindset using all the resources you have
- Python
 - ✓ How python use in cyber security
 - ✓ Basics of Python
 - ✓ Using python modules
 - ✓ Hands-on simple problem and solve it using internet
- Microprocessor
 - ✓ What is a microprocessor?
 - ✓ 8085 instruction sets
 - ✓ Instructions and Mnemonics
- Application Development
 - ✓ What is html?
 - ✓ What is CSS?
 - ✓ What is JS?
 - ✓ What is DB?
 - ✓ How to connect DB to any web application?
 - ✓ **Capstan Project**
- Cloud computing
 - ✓ What is cloud? Etc...
 - ✓ Different types of cloud arrangements
 - ✓ Different cloud providers
 - a. AWS
 - b. GCP
 - c. Azure
 - d. DO
 - e. Linode

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- ✓ Boilerplate
- ✓ Cloud function
- ✓ What is LB?
- ✓ Distributed computing
- ✓ Hands-on cloud
 - a. Creating an EC2 instance on AWS
 - b. Crating a cloud server using DO
 - c. Creating a VP server on DO
 - d. Configuring and accessing VPN server
 - e. Configuring cloud firewall on DO
- Enterprise IT
 - ✓ What is enterprise application?
 - ✓ Qualities of enterprise IT
 - ✓ How application works?
- Basics of Ethical Hacking
 - ✓ IT act
 - ✓ Building a hacker's mindset
 - ✓ Terminologies
 - ✓ What is risk?
 - ✓ What is Threat?
 - ✓ What is Vulnerability?
 - ✓ What is exploit?
 - ✓ CVSS
 - ✓ KEV
 - ✓ What is 0 day exploit?
 - ✓ Exploit – DB
 - ✓ Pentesting
 - ✓ Phases of pentesting
 - ✓ OSINT – What is Dorking?
 - ✓ What is RAT?
 - ✓ What is Social Engineering?
 - a. Using SE Framework
 - b. Creating a phishing page?
 - c. Creating a small keylogger
 - ✓ IoT security
 - ✓ Scada security
 - ✓ AI/ML in cyber security
 - ✓ Block chain working and security

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- ✓ Threat intelligence
- ✓ Monitoring and detection
 - a. SIEM
 - b. Wire shark
- ✓ Privacy
- ✓ Case study
 - a. Pentesting
 - b. CVE abd Exploitation
- Communication and counselling
 - ✓ Mitigate crimes
 - ✓ Understanding fraud mindset
 - ✓ Understanding latest fraud
 - ✓ Govt. scheme
 - ✓ Register crime
 - ✓ Communication skill
 - ✓ Communication practice
- Capstone Project : creating a basic enterprise level secured setup with limited and full accessibility.

Advance Level

- Network Security
 - ✓ Detail topic will be provided soon

• Cryptograph basic
✓ Detail topic will be provided soon
• Blockchain and security
✓ Detail topic will be provided soon
• IoT and security
✓ Detail topic will be provided soon
• Hardware Security
✓ Detail topic will be provided soon
• firewalls

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✓ Detail topic will be provided soon
• OS Security standard practice
✓ Detail topic will be provided soon
• ISMS
✓ Detail topic will be provided soon
• Cyber Security final job preparation
✓ Detail topic will be provided soon
• Capstone Project
✓ Detail topic will be provided soon

Expert Level

- 1. Offensive**
- 2. Defenasive**