Day 2 : Introduction to Cyber Security and Ethical Hacking
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Hacking Cycle or Phases of Hacking:

Not necessarily hacker follow this, it's a stepwise process when followed yields a better results.

1. Reconnaissance
2. Scanning
3. Gaining Access
4. Maintaining Access
5. Clear tracks

1. **Reconnaissance**:

Gathering all possible information about target so that data can be used in further hacking phases.

2. **Scanning**:

In this step, you actively check the target for vulnerabilities or open doors. It involves looking for weaknesses that could be exploited to get into the system.

3. **Gaining Access**:

We use the information from reconnaissance and scanning to actually break into the system. This step involves exploiting the vulnerabilities to get unauthorized access.

4. **Maintaining Access**:

If we Successful till 3rd steps, so After gaining Access there is high chance that if target machine powered off we lost access at that time we need to make sure you can keep accessing the system. This step involves setting up ways to ensure you don't get locked out or detected.

5. **Clearing Tracks**:

This is the final step where you remove any evidence of your activities to avoid detection. It's like cleaning up after yourself so no one can tell you were there.

Then, Sir showed us a folder that contains some files and asked a question.

**Question** : How many files are there in this folder ?

In that folder there is 11 contents but answer is there is 8 file other 3 are Directories Not easy one it confused all students but we manage to answer.

Then next question is: Is extension matter for the file? without extension how file can be recognised ?

But sir give this last question as assignment .

GitHub Repository :
Sir introduce his GitHub repository for cyber security notes.
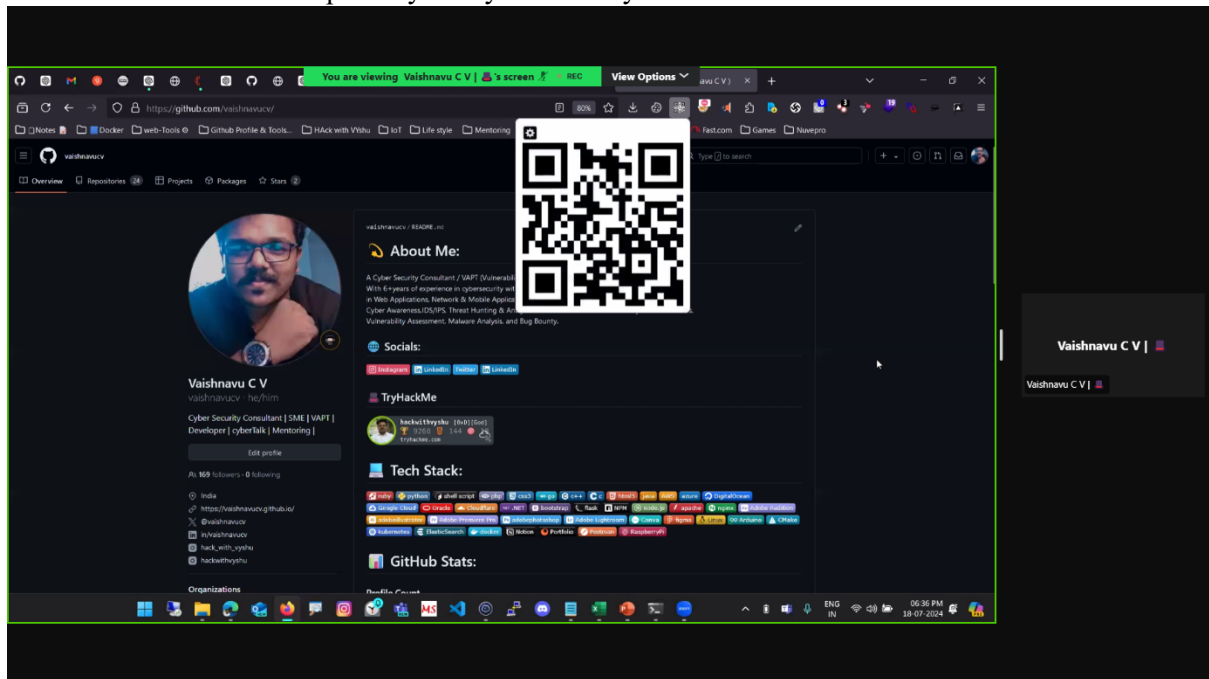
In this repo there is important notes about clinux commands

Repo name is : cybersecurity-note/101-Beginner/Basic linux commands for beginner's.pdf

In this pdf so many commands and we have to practice this all commands because they are so basics commands

How to Download ubuntu linux machine you want in windows : (Only for latest updated windows version)

- Just go to Microsoft store and search for ubuntu and download any version you want

Another method you can do this is WSL in windows :

For that go through this article : https://learn.microsoft.com/en-us/windows/wsl/install

What is WSL

Windows Subsystem for Linux (WSL) is a feature of Windows that allows you to run a Linux environment on your Windows machine, without the need for a separate virtual machine or dual booting. WSL is designed to provide a seamless and productive experience for developers who want to use both Windows and Linux at the same time.