Day 5: Android Hacking with ADB and Vysor (June 23, 2025)

Topics Covered:

- ADB (Android Debug Bridge) setup and use.
- Connecting Android to PC over WiFi.
- File transfer with ADB.
- Android internal shell access.
- Screen mirroring with **Vysor**.
- Enabling Developer Options and USB Debugging.

What I Did:

I learned to access and control an Android from a PC using **ADB**. I transferred files and mirrored the screen with **Vysor**.

Prerequisites:

1. Windows laptop, Android phone.
2. Both on the **same WiFi**.
3. **Android SDK Platform Tools** extracted on PC.

Setup Process:

1. **Enable Developer Options on Android:** Tapped "Build Number" in "About Phone" to unlock, then enabled **USB Debugging**.
2. **Prepare ADB Environment:** Opened terminal in Platform Tools folder.
3. **Connect Android Device:** Connected phone via USB (File Transfer mode), authorized connection.
4. **Switch to Wireless (WiFi) Connection:** Enabled ADB over TCP/IP, connected wirelessly using phone's IP. Unplugged USB.

ADB Capabilities I Explored:

- **Device Detection:** Checking connected Androids.
- **Android Shell Access:** Command-line interface for Android OS.
- **File Transfers:** Pulling files from Android, pushing files to Android.

Android Screen Mirroring using Vysor:

I used **Vysor** to mirror and control the Android screen on my PC.

Key Learnings:

- ADB is powerful for Android management.
- USB Debugging gives deep system access.
- WiFi ADB allows remote interaction.
- Vysor is good for real-time testing.