

**Experiment No.**

**Title: To install and configure Tails OS in a VirtualBox environment using an ISO image.**

**Roll No.: 16010423076****Experiments No.:6**

**Aim : To install and configure Tails OS in a VirtualBox environment using an ISO image.**

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**Resources :** Internet connection, Oracle VirtualBox, Tails OS ISO Image

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### **Theory:**

**Tails OS (The Amnesic Incognito Live System)** is a security-focused Linux distribution designed for privacy, anonymity, and security. It is based on Debian Linux and routes all internet traffic through Tor (The Onion Router), ensuring encrypted and anonymous browsing. Tails operates as a Live OS, meaning it runs from a USB or ISO file and does not leave traces on the host system.

### **Key Features of Tails OS:**

- **Anonymity:** All network connections are forced through Tor, hiding the user's identity.
- **Amnesia Mode:** No activity logs are stored on the system after shutdown.
- **Built-in Encryption:** Tools like LUKS encryption, GnuPG, and VeraCrypt are pre-installed.
- **Secure Communication:** Comes with Tor Browser, OnionShare, and Thunderbird for private messaging and browsing.

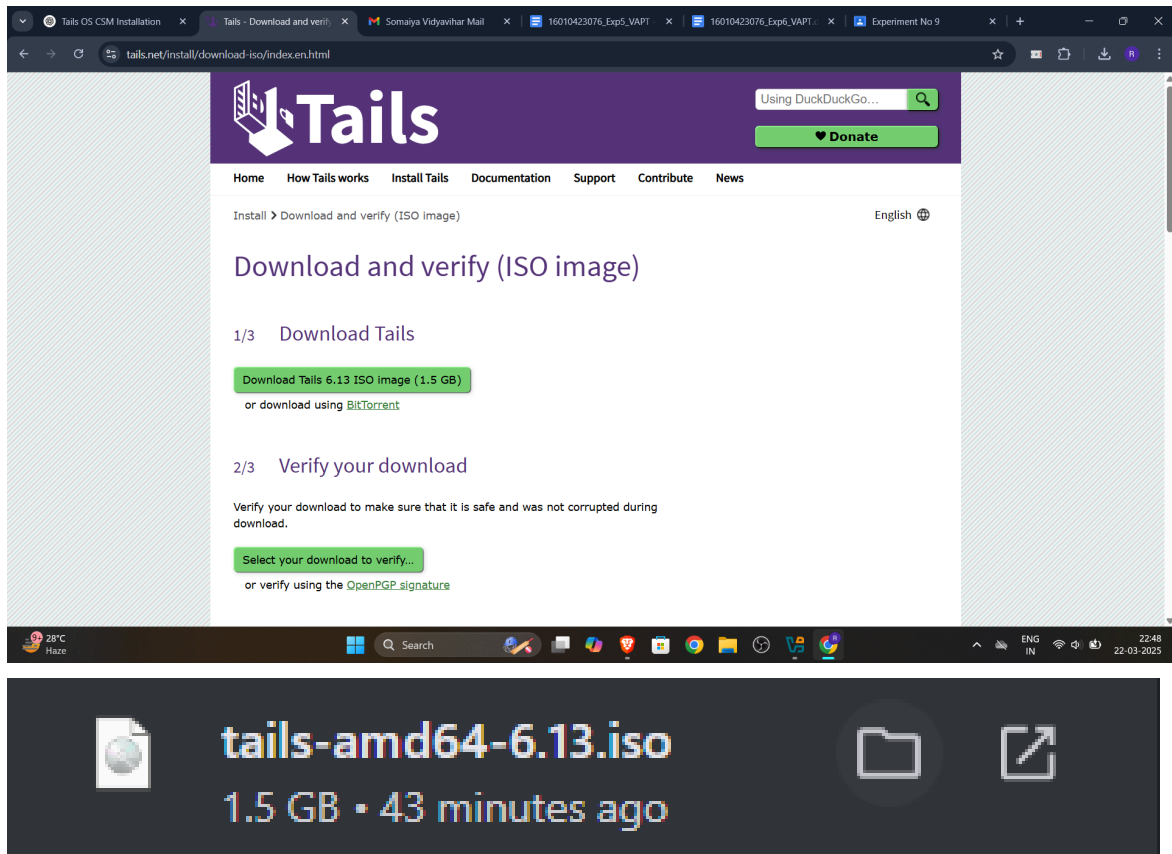
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## **IMPLEMENTATION AND RESULTS:**

### **1. Downloading the Tails OS ISO**

To begin, I downloaded the latest Tails ISO from its official website (<https://tails.net/>). This ensures I have an up-to-date, secure version of the OS.

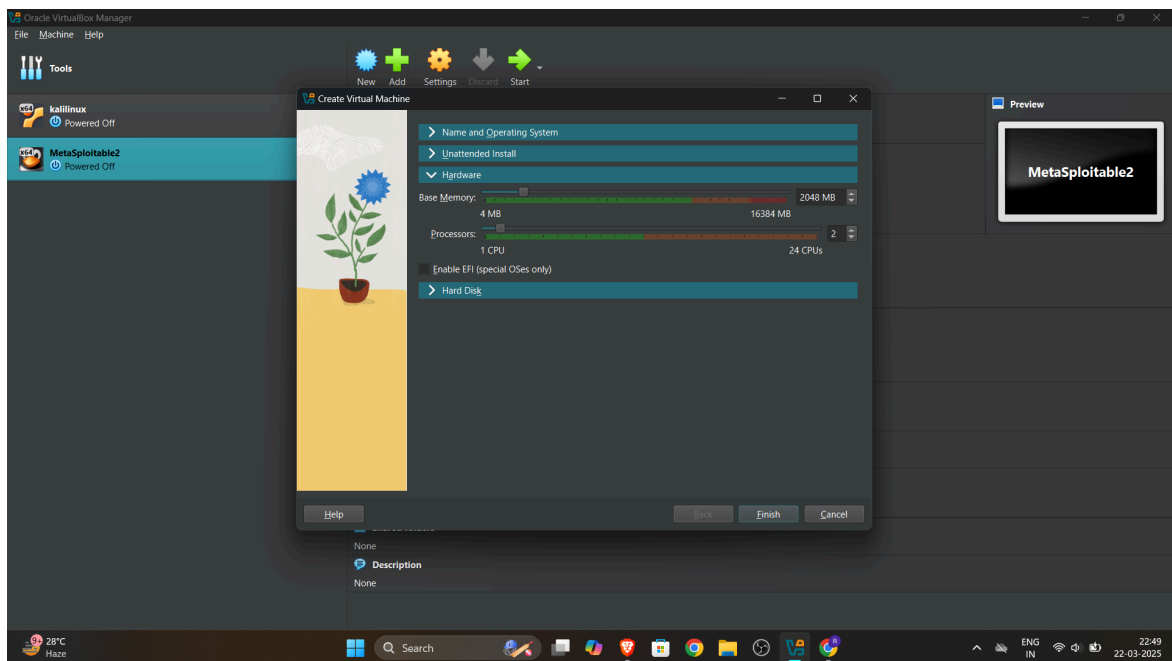
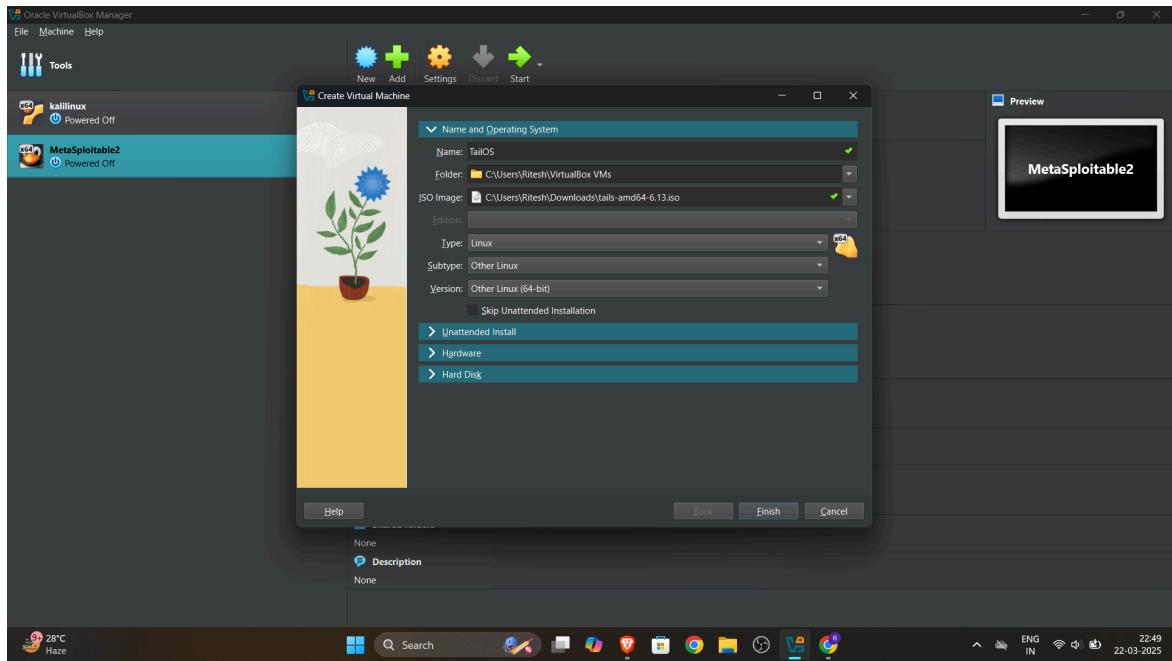
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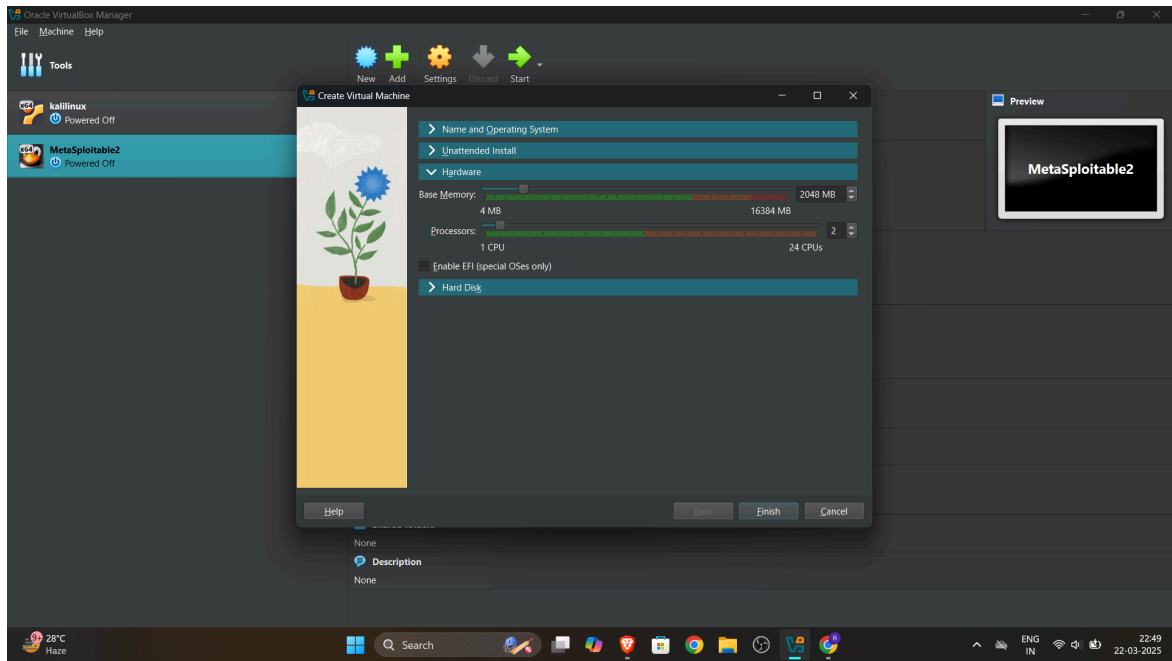


## 2. Configuring the Virtual Machine

- Name: I assigned a suitable name, e.g., Tails OS.
- Type: Selected Linux as the OS type.
- Version: Chose Other Linux (64-bit) to match Tails' system requirements.
- Memory Allocation: I allocated at least 2GB RAM, though 4GB is recommended for better performance.
- Storage: I opted for a dynamically allocated VDI disk with at least 8GB, preferably 16GB.

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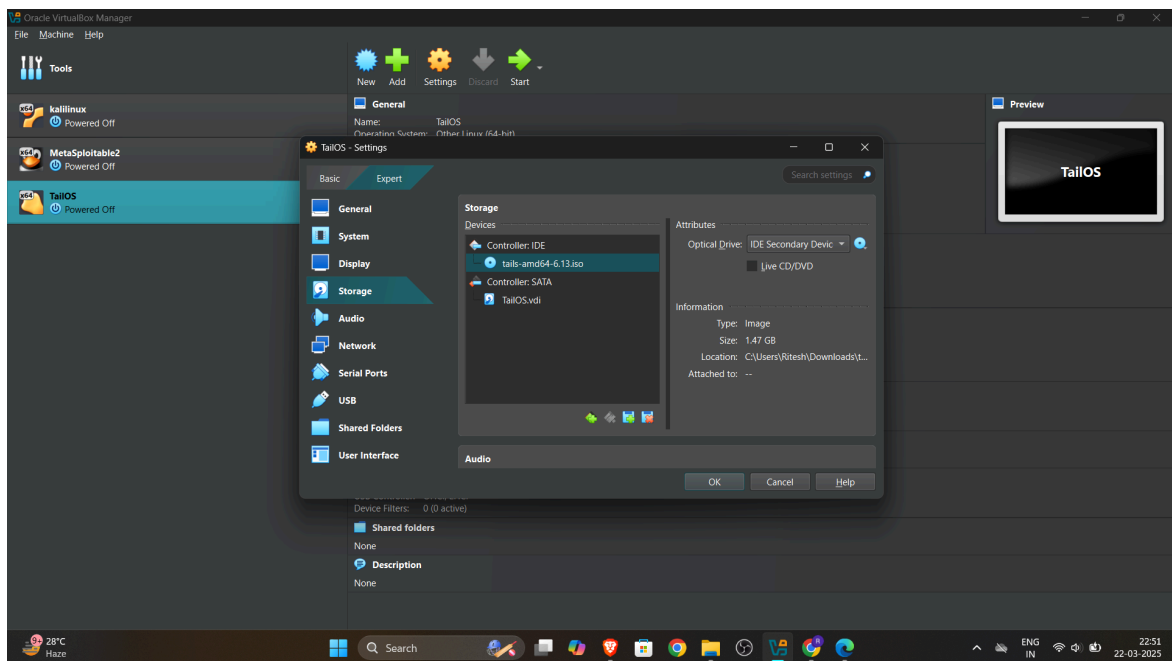
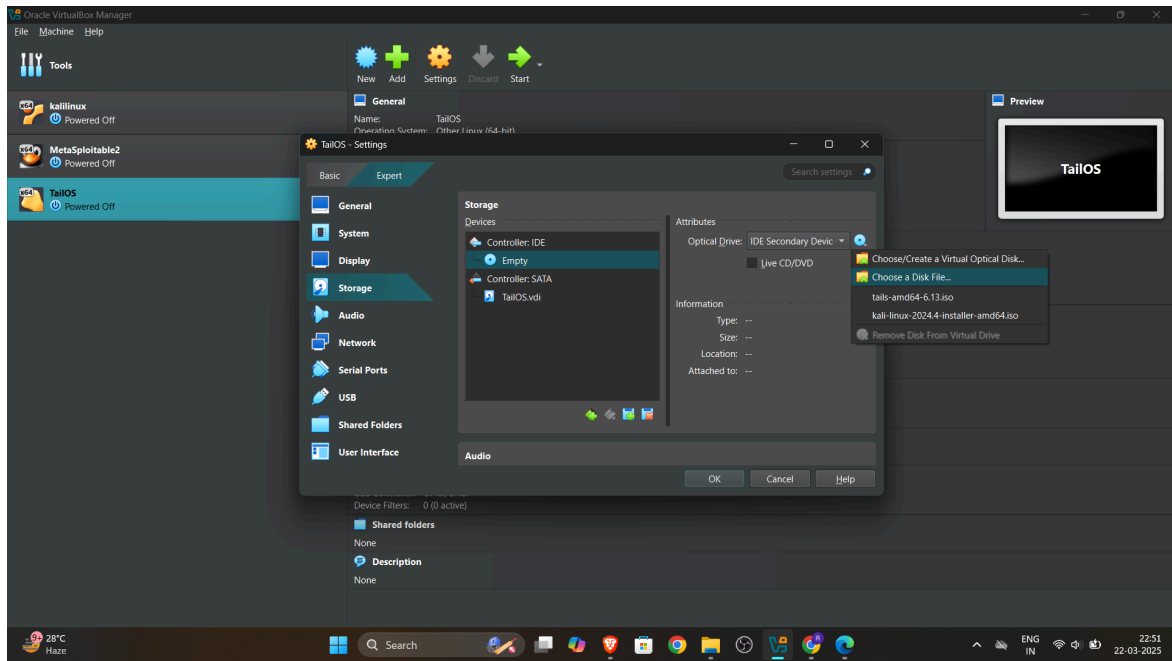




### 3. Mounting the Tails ISO

After setting up the VM, I proceeded to attach the **Tails ISO** to it:

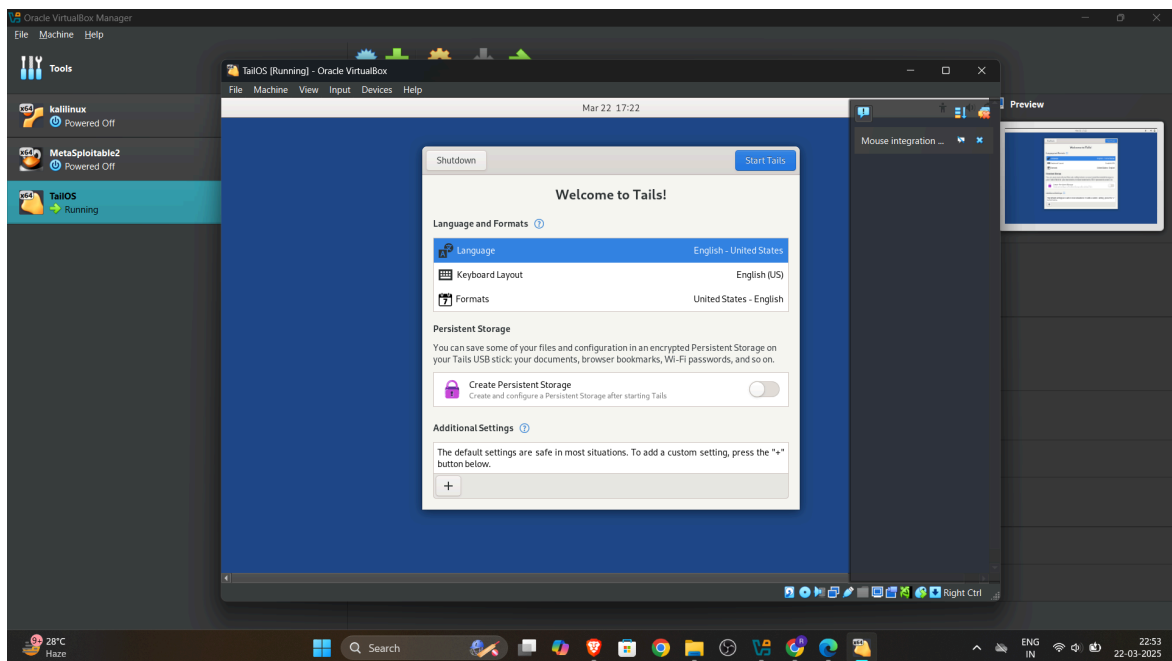
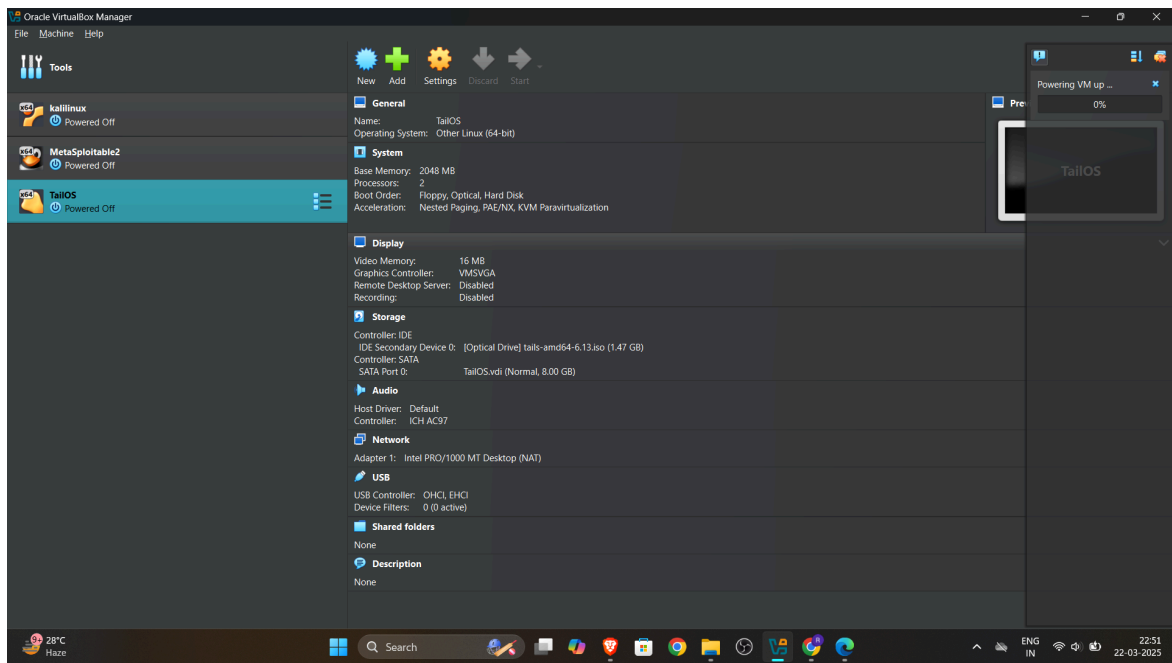
- Opened Settings → Storage.
- Selected Empty under Controller: IDE.
- Clicked the CD icon and chose "Select a disk file" to mount the downloaded Tails ISO.

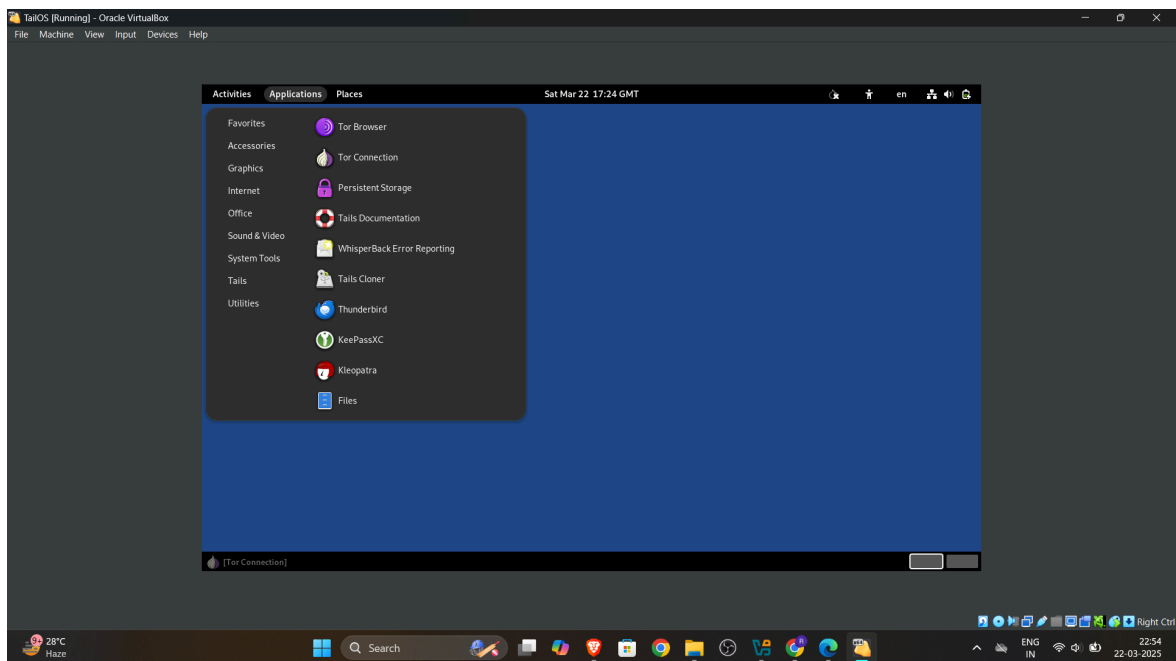
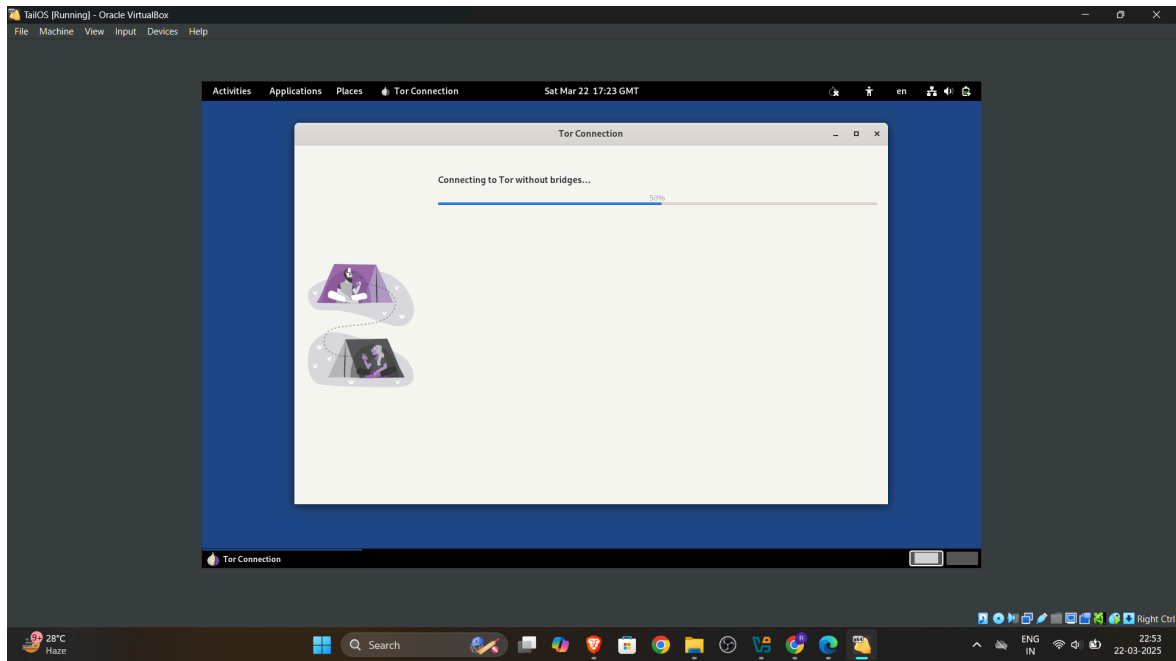


#### 4. Booting and Running Tails OS

With everything in place, I started the VM. The Tails boot menu appeared, from which I selected Tails (Live) – Default Boot. The OS loaded successfully, and I proceeded with the initial configuration, setting up language and region preferences.

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**Outcomes: CO2: Comprehend purpose of Anonymity and Foot printing.**

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**Conclusion: (Conclusion to be based on the objectives and outcomes achieved)**

From this experiment, I learned how to install and configure Tails OS in VirtualBox, ensuring a secure and private computing environment. I explored the anonymity and security features provided by Tails, such as Tor routing, amnesic mode, and encryption tools. This experiment provided hands-on experience with virtualization, Linux OS setup, and privacy-focused computing.

**Grade: AA / AB / BB / BC / CC / CD /DD**

**Signature of faculty in-charge with date**

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**REFERENCES:**

Tails OS Official Website: <https://tails.net/>

VirtualBox Official Download: <https://www.virtualbox.org/>

Tor Project: <https://www.torproject.org/>

Debian Linux: <https://www.debian.org/>