UNIX & LINUX ESSENTIALS
ENVIRONMENT SET UP

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1. Local Unix/Linux Development Environment Setup

1.1. Installing Virtual Box

Overview

The steps will walk you through the process for installing Virtual Box

Prerequisites

- Should be connected to the internet

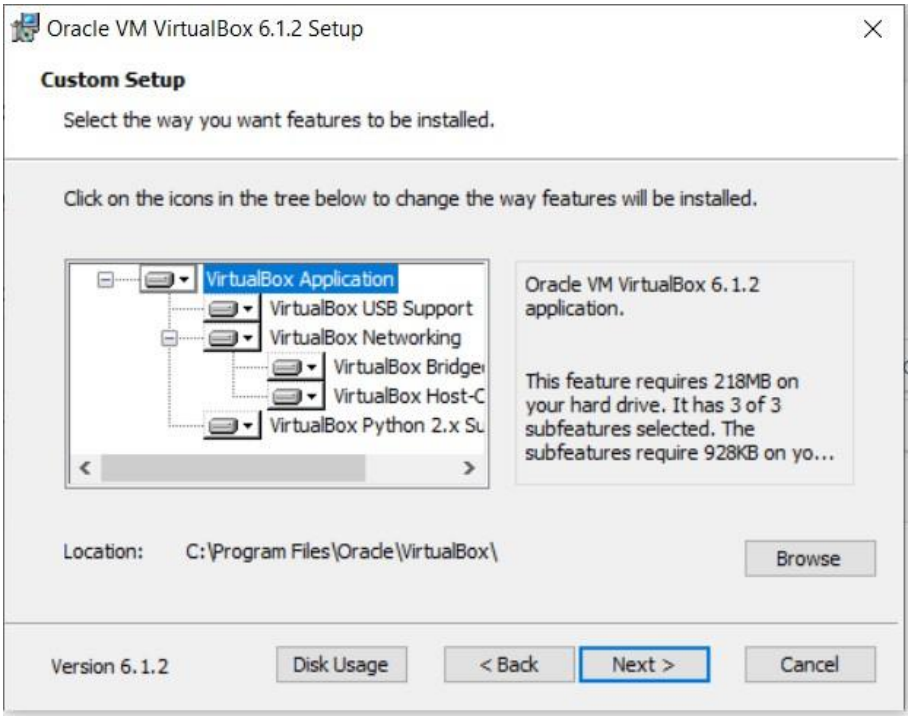
Tasks

1. To download VirtualBox, go to the official site virtualbox.org and download the latest version for windows.

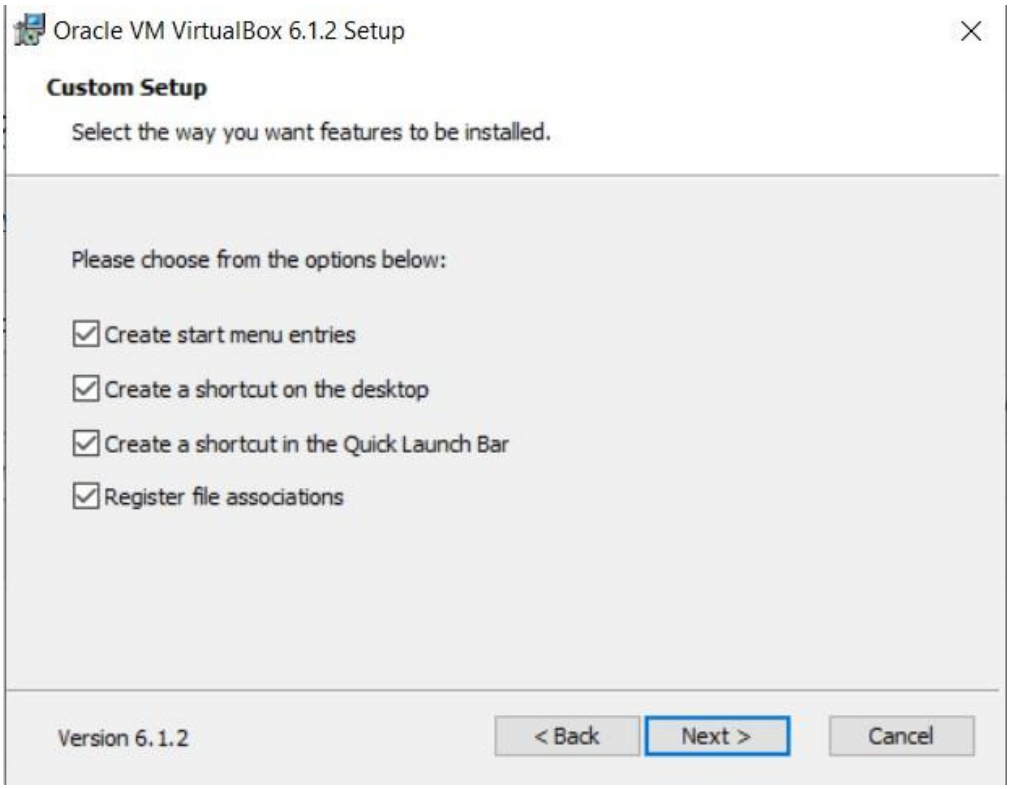
2. Install a particular package based on your system configuration.

1. Getting Started:

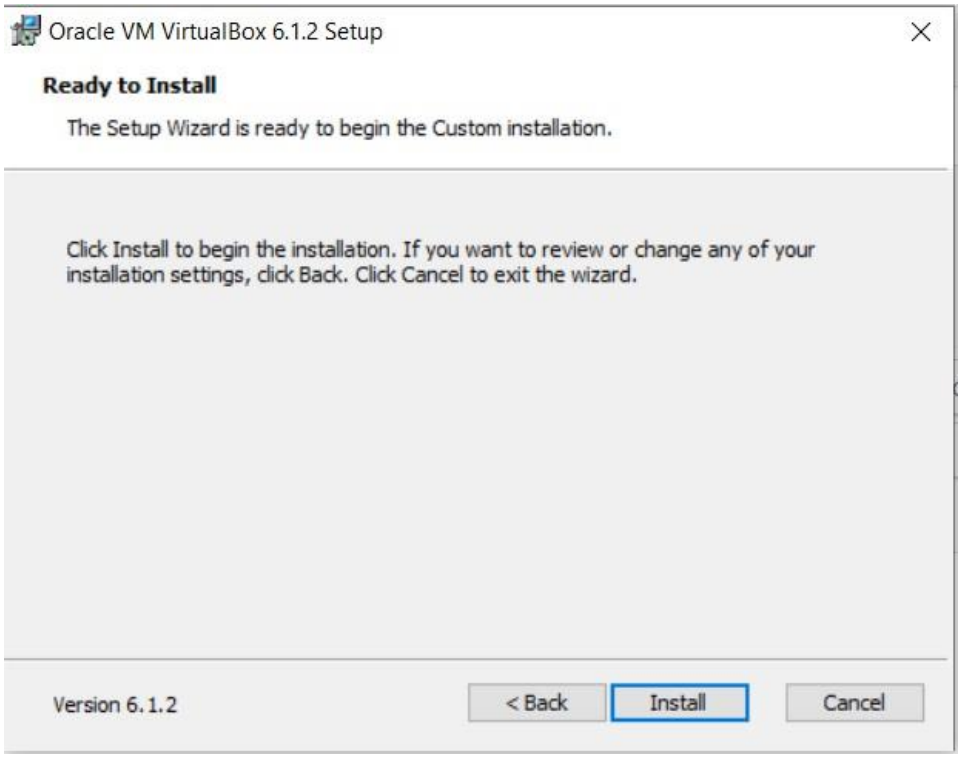
2. Select Installation Location:



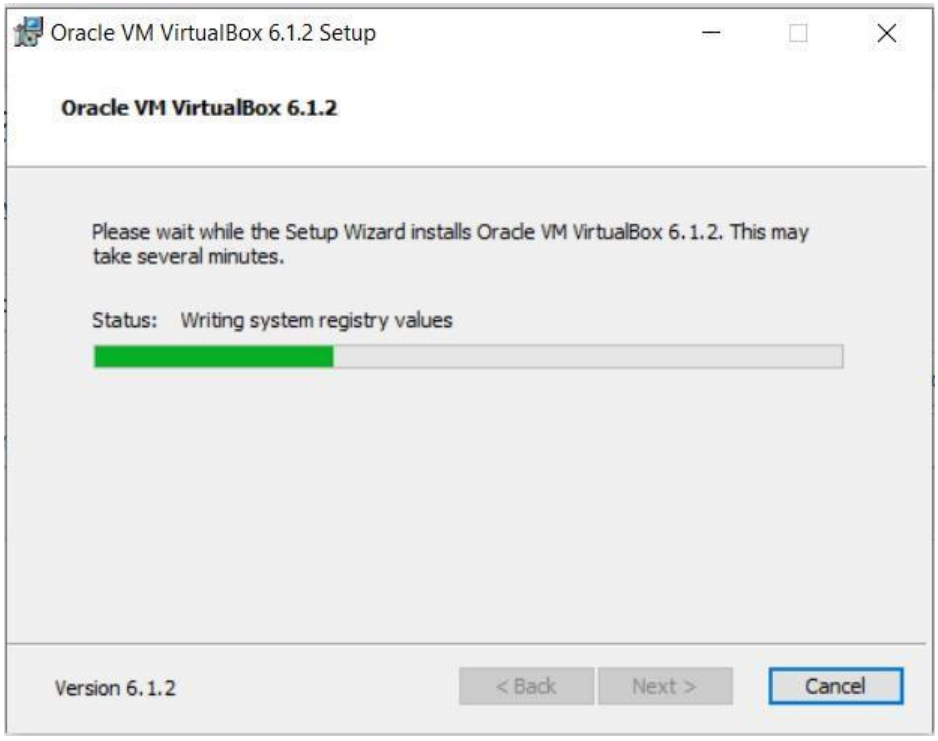
3. Creating Entries and Shortcuts:



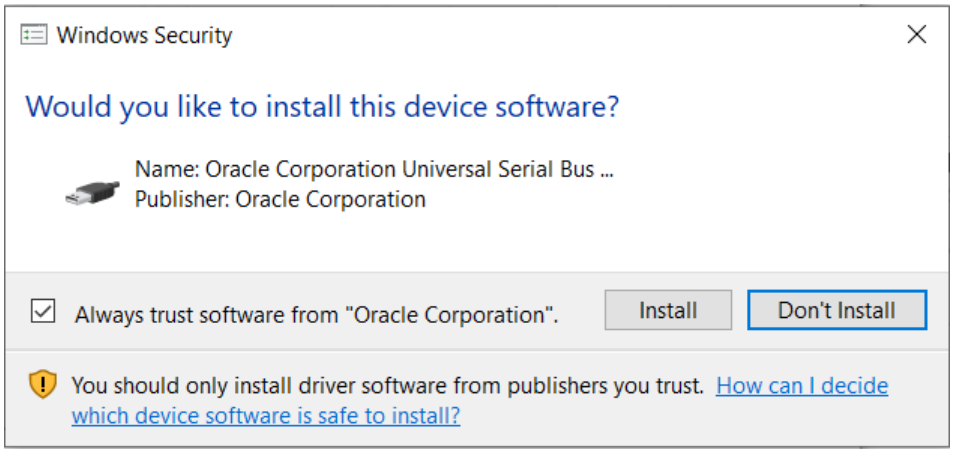
4. Ready to Install:



5. Installing Files and packages:



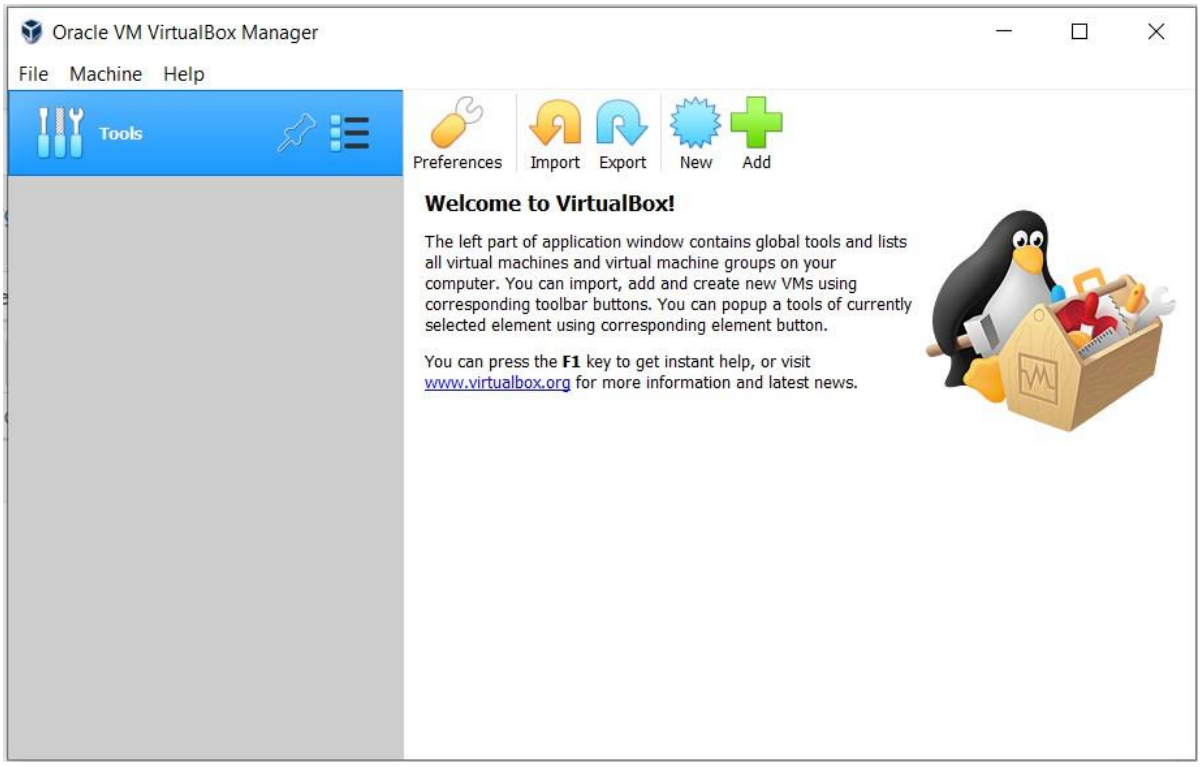
6. Installing Certificates:



7. Finished Installation:


Oracle VM VirtualBox 6.1.2 Setup
Oracle VM VirtualBox 6.1.2 installation is complete.
Click the Finish button to exit the Setup Wizard.
Start Oracle VM VirtualBox 6.1.2 after installation
Version 6.1.2
< Back
Finish
Cancel

8. When you will open Virtualbox it will look like as shown below:



1.2. Installing Oracle Linux

Overview

The steps will walk you through the process for installing Oracle Linux

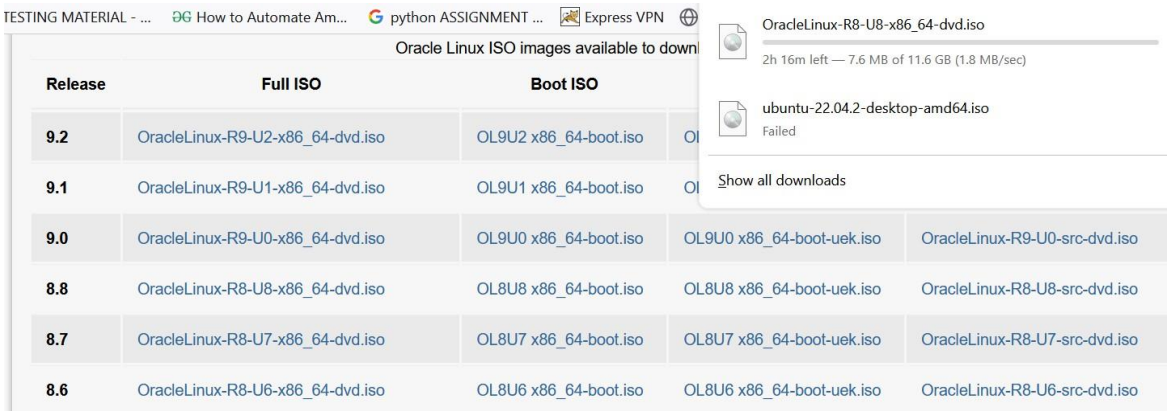
Prerequisites

1.3. Should be connected to the internet

Tasks

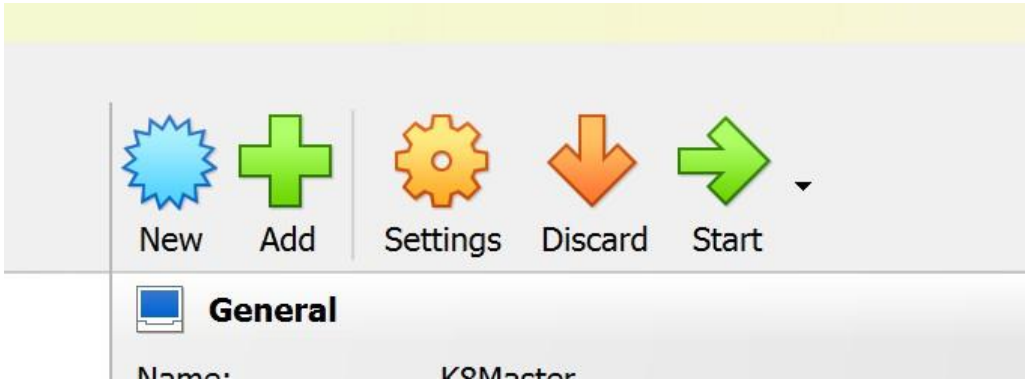
1. Open a browser and navigate to the link https://yum.oracle.com/oracle-linux-isos.html

2. Scroll Down and install a Full ISO image

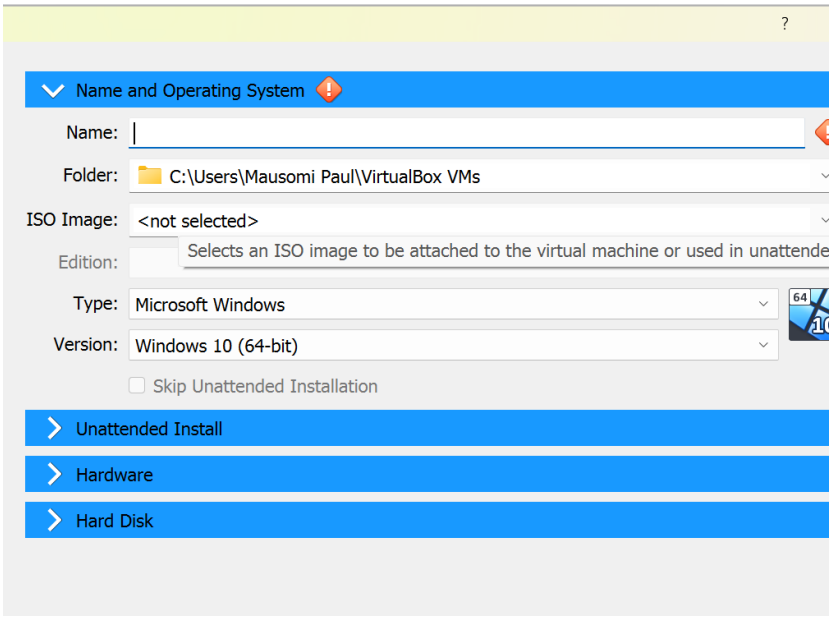


Release	Full ISO	Boot ISO		
9.2	OracleLinux-R9-U2-x86_64-dvd.iso	OL9U2 x86_64-boot.iso	Ol	
9.1	OracleLinux-R9-U1-x86_64-dvd.iso	OL9U1 x86_64-boot.iso	Ol	
9.0	OracleLinux-R9-U0-x86_64-dvd.iso	OL9U0 x86_64-boot.iso	OL9U0 x86_64-boot-uek.iso	OracleLinux-R9-U0-src-dvd.iso
8.8	OracleLinux-R8-U8-x86_64-dvd.iso	OL8U8 x86_64-boot.iso	OL8U8 x86_64-boot-uek.iso	OracleLinux-R8-U8-src-dvd.iso
8.7	OracleLinux-R8-U7-x86_64-dvd.iso	OL8U7 x86_64-boot.iso	OL8U7 x86_64-boot-uek.iso	OracleLinux-R8-U7-src-dvd.iso
8.6	OracleLinux-R8-U6-x86_64-dvd.iso	OL8U6 x86_64-boot.iso	OL8U6 x86_64-boot-uek.iso	OracleLinux-R8-U6-src-dvd.iso

3. Once the installation is complete, open the virtual box and click on “New”


New
Add
Settings
Discard
Start
General

4. Give a name for your machine, and also add the ISO image which you have just downloaded in the type it will be Linux, and select the version based on your system



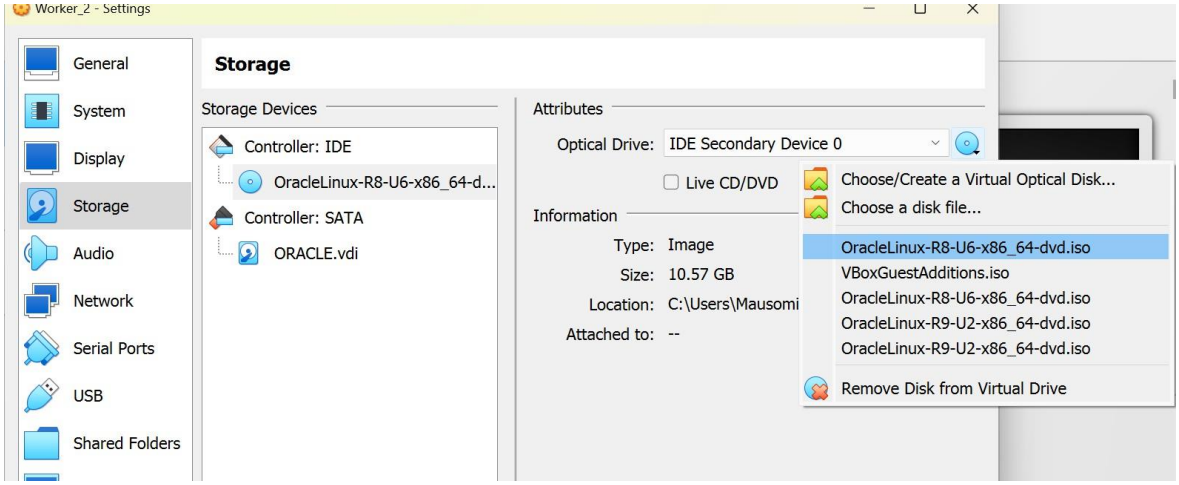
5. Select Unattended install and provide your username and password.

6. In the Hardware Section select the Base memory and Processor size.

7. In the Hard Disk section, select “Create a Virtual Hard Disk Now” and click on “Finish”.

8. Power off your machine and select the machine which you have created go to settings.

9. Go to the Storage section, select controller IDE, and add the image.



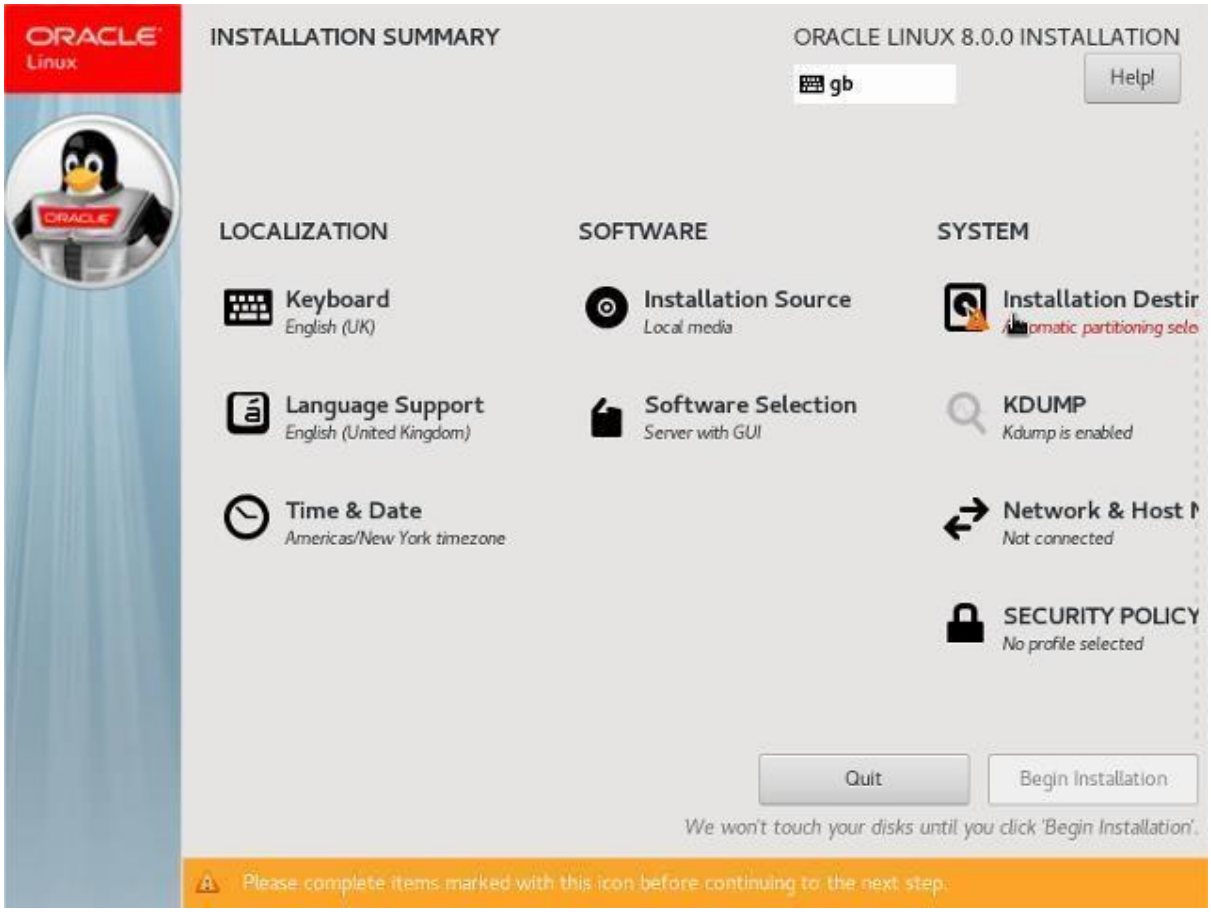
10. Now power on your machine and follow the steps.

11. Boot from the DVD or ISO image. Use the up arrow to pick the "Install Oracle Linux 8.0" option and hit the return key.

12. Select the appropriate language and click the "Continue" button.

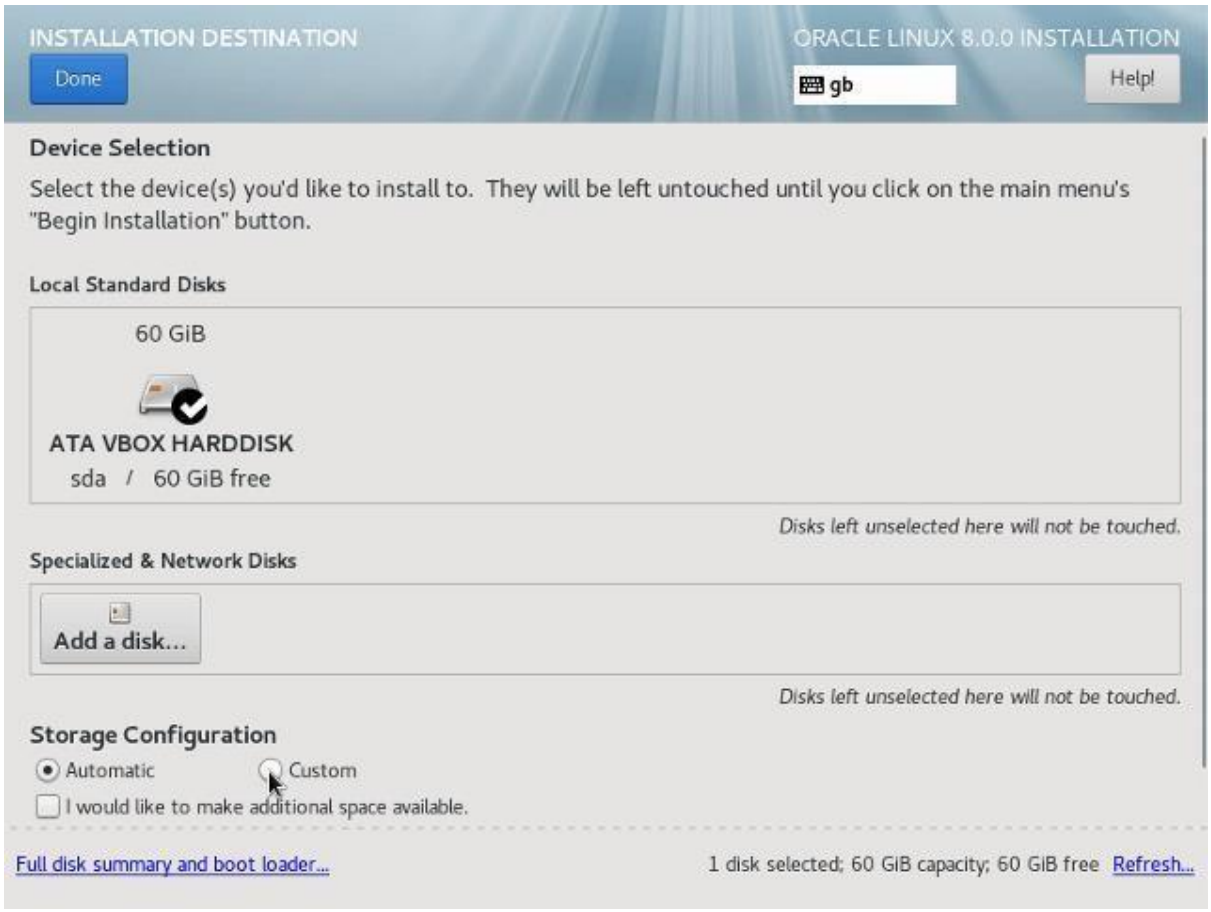
Click the "I want to proceed." button on the pre-release software warning screen.

13. You are presented with the "Installation Summary" screen. You must complete any marked items before you can continue with the installation. Depending on your requirements, you may also want to alter the default settings by clicking on the relevant links.

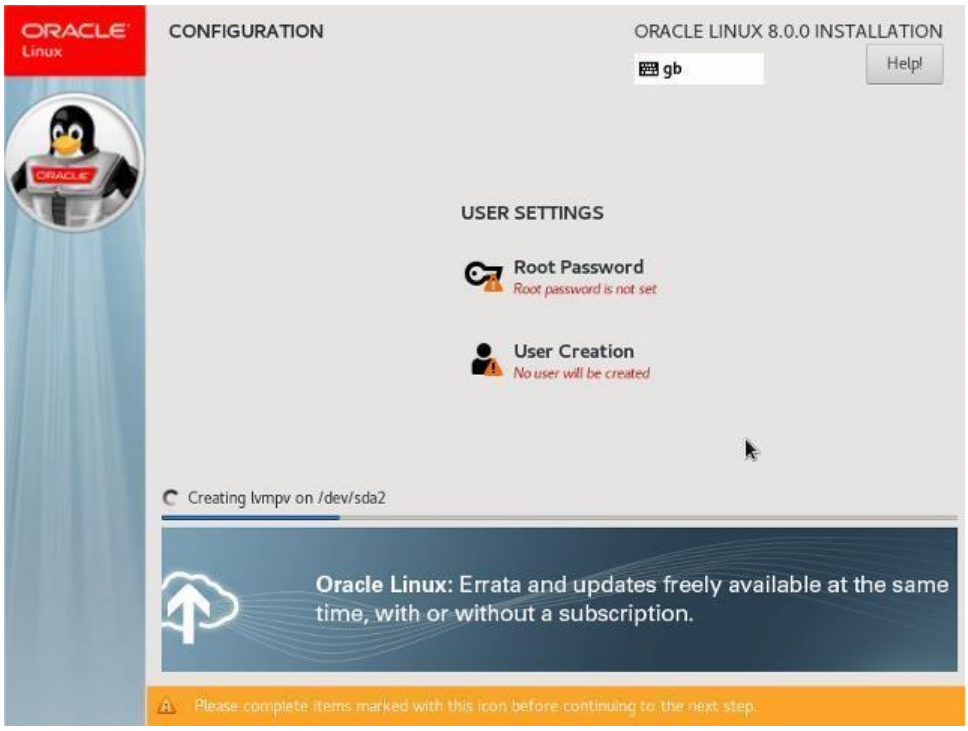


Click the "Installation Destination" link.

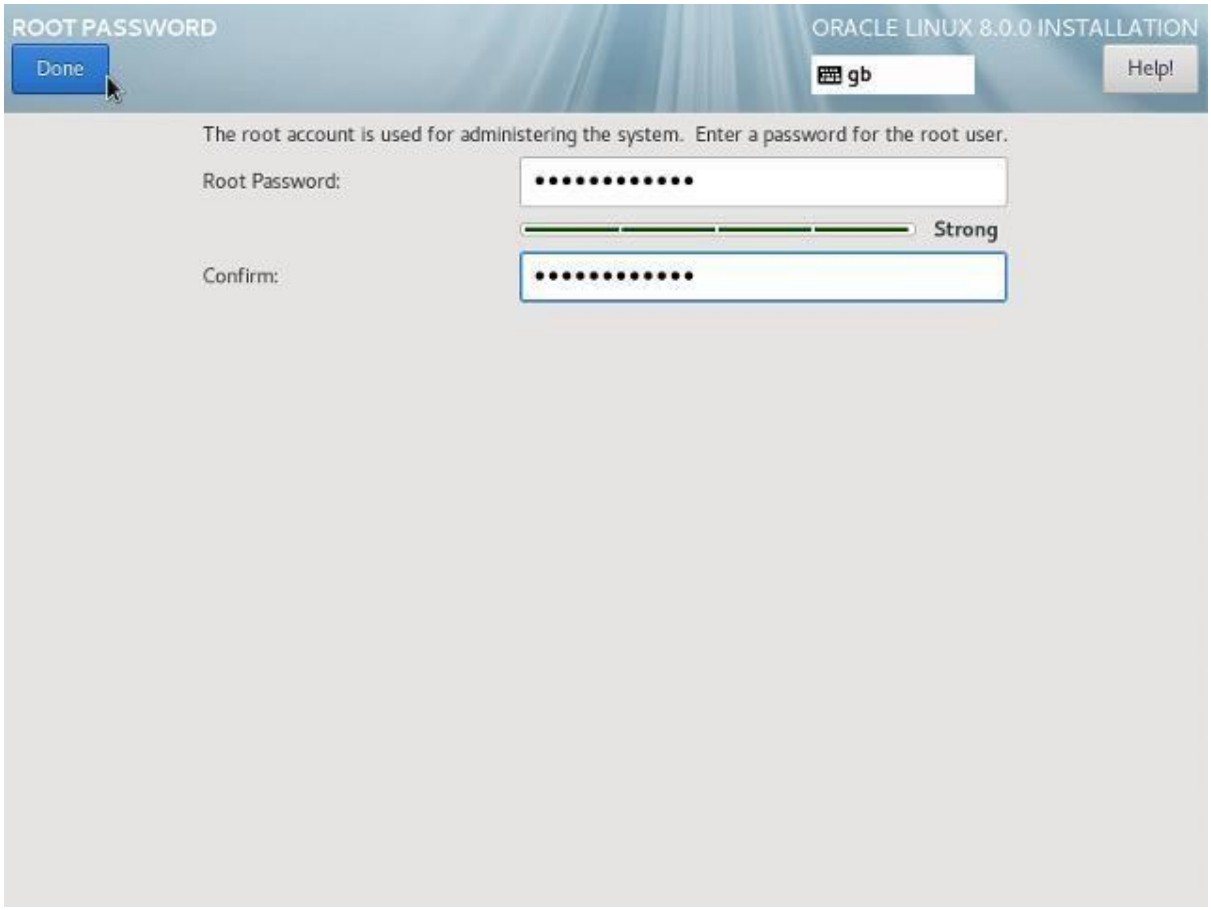
14. If you are happy to use automatic partitioning of the whole disk, click the "Done" button to return to the previous screen.



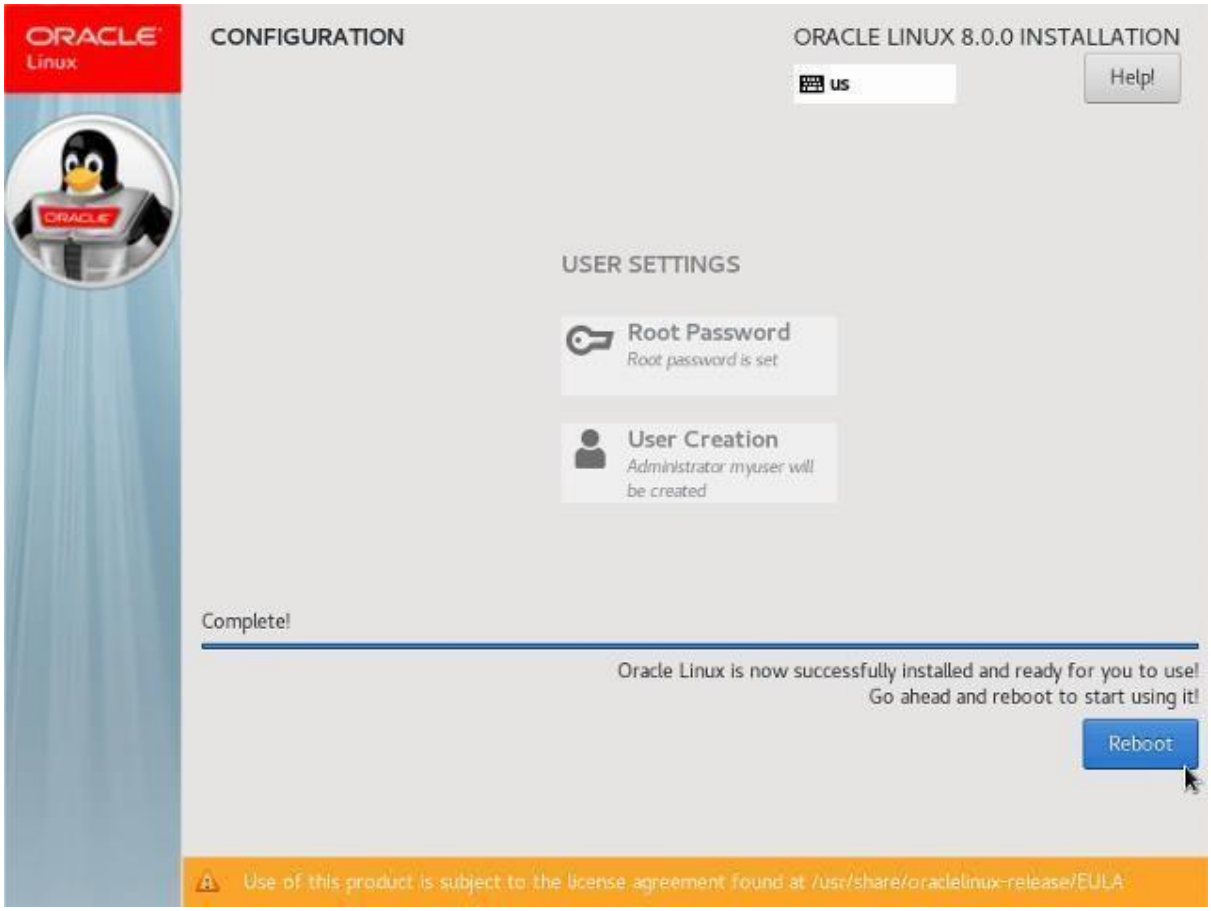
15. Click the "Root Password" link.



16. Enter the root password and click the "Done" button.



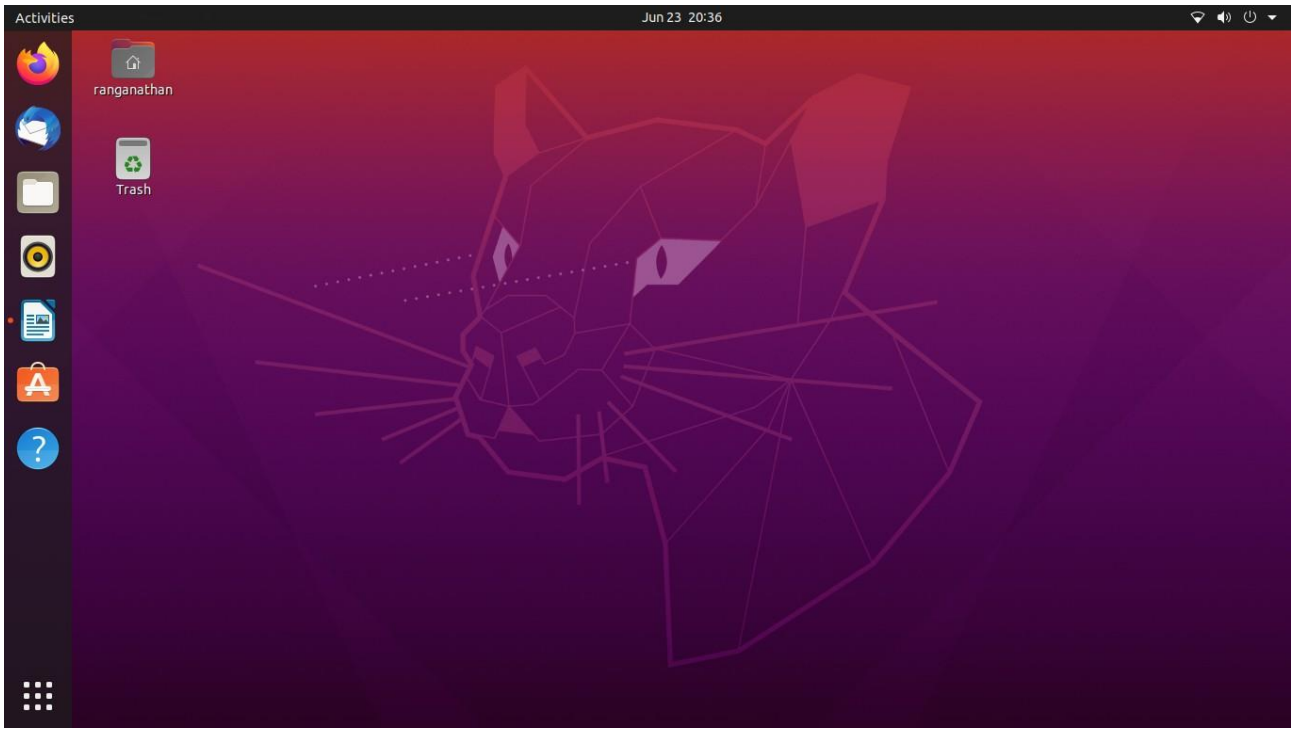
19. Wait for the installation to complete. When prompted, click the "Reboot" button.



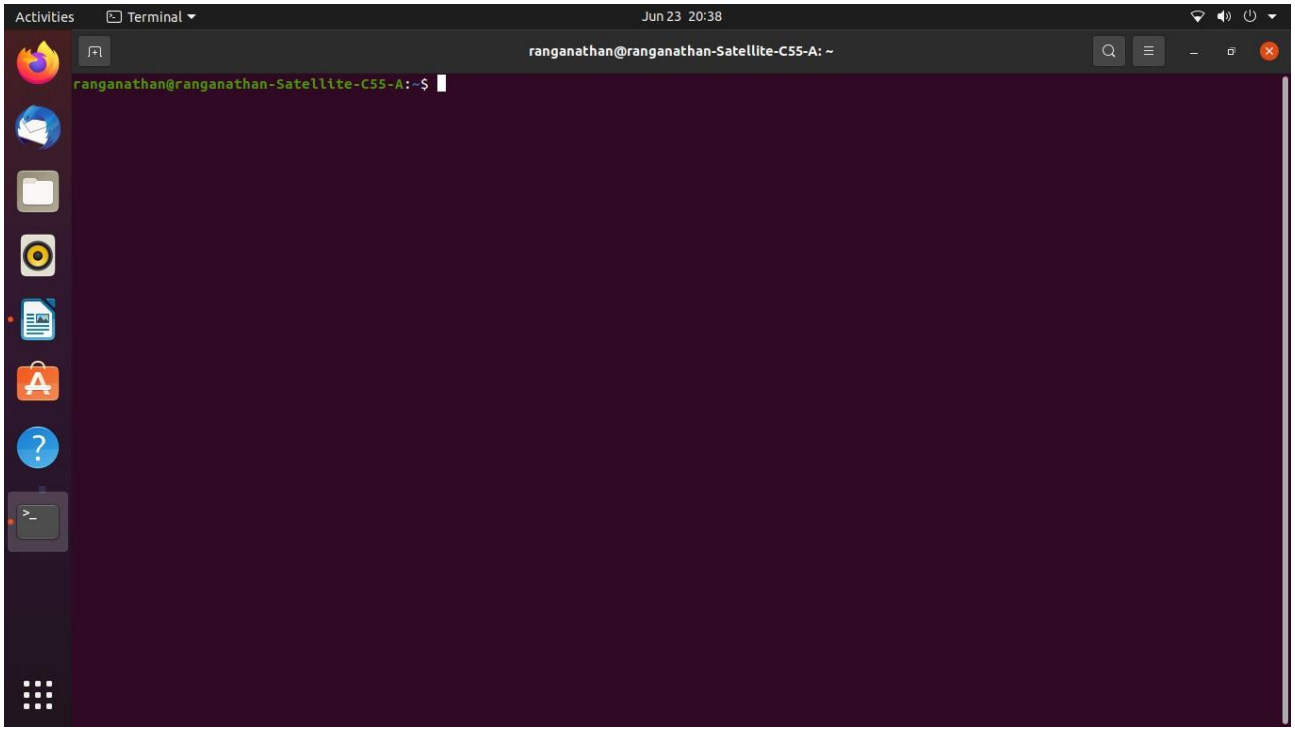
20. Click on Reboot and your system is ready.

1.3. Running Linux OS

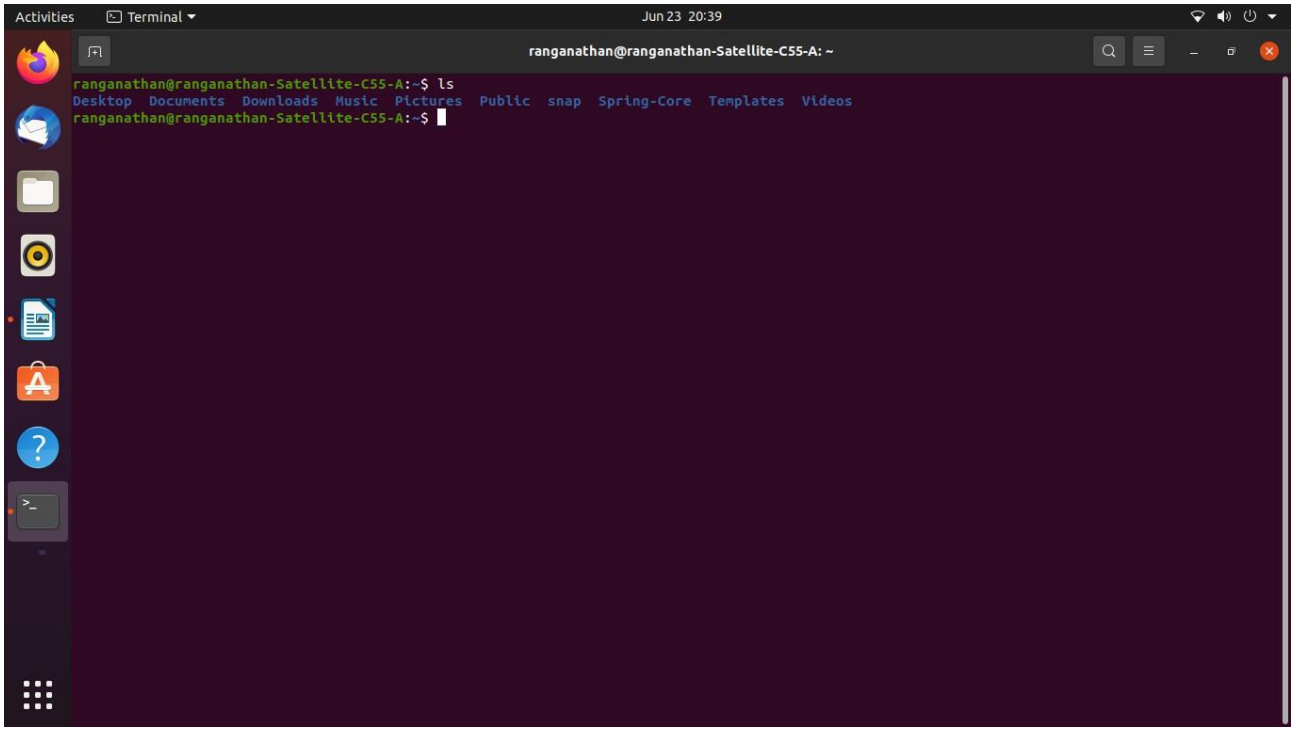
Startup your Linux system



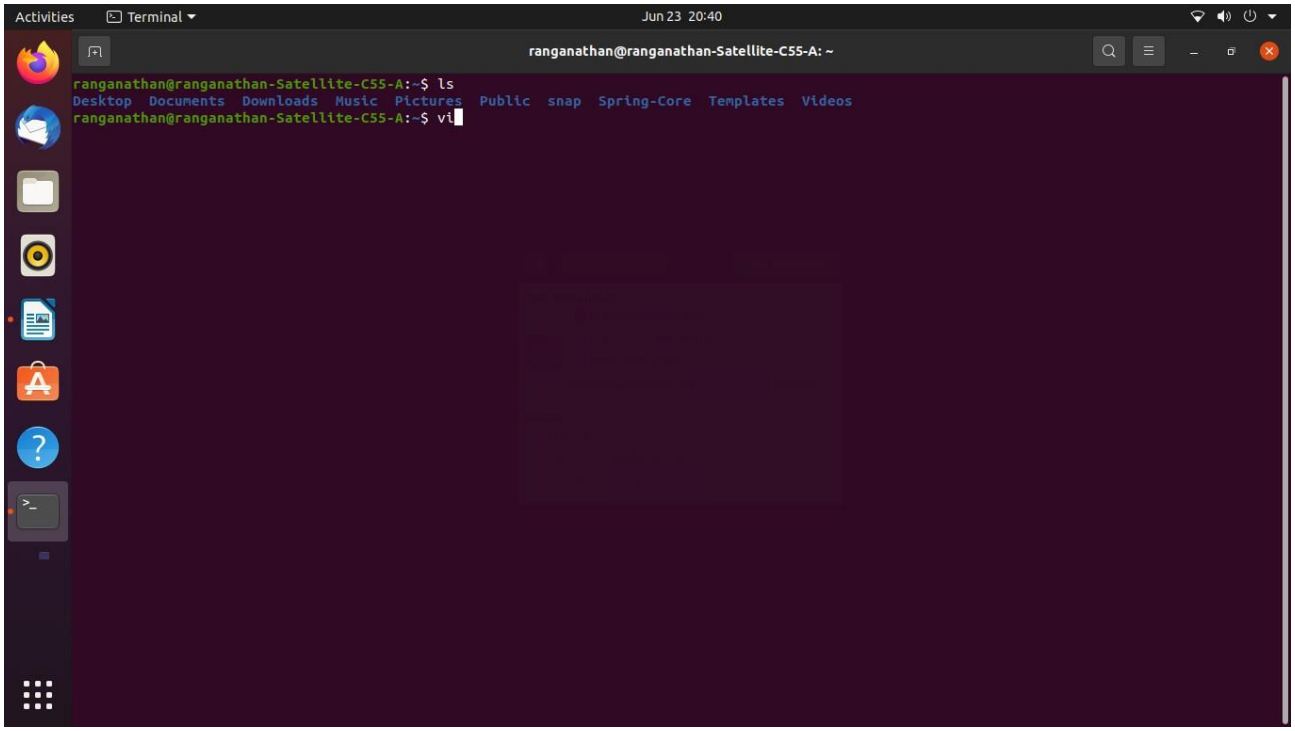
Press Ctrl + Alt + t to open the terminal



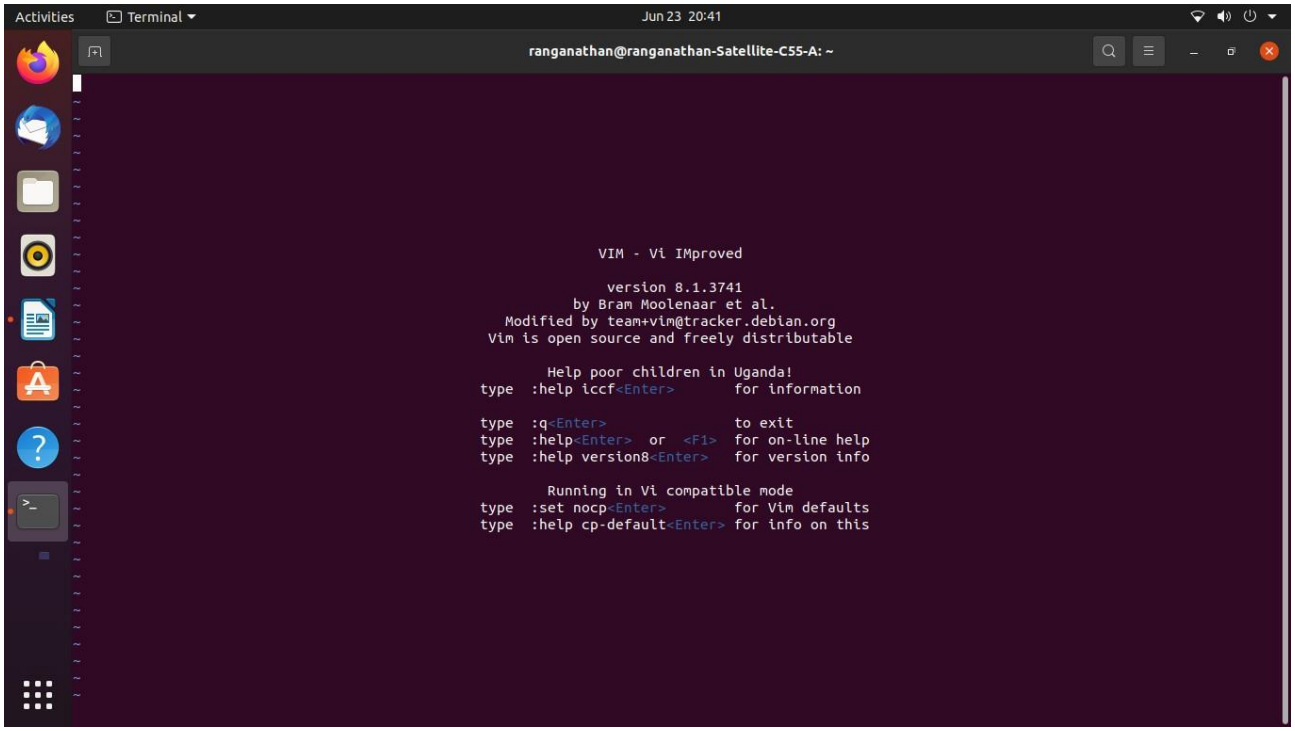
Type the Unix or Linux command such as ls and click Enter



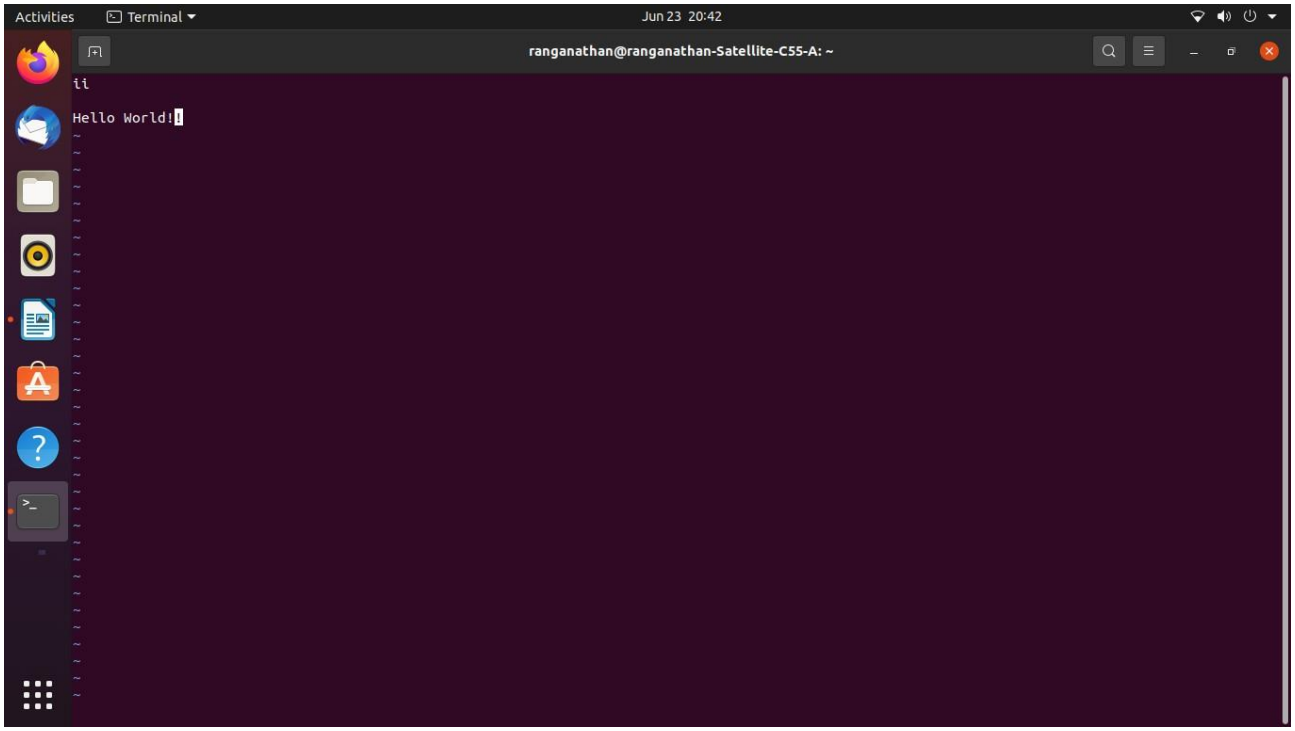
To Open the vi editor type vi command and press Enter



vi editor opened



Step 5: To type inside the vi editor press i to go into the insertion mode and start typing



2. Browser-Based Development Environment Setup using Replit

Introduction: A **cloud-based IDE (Integrated Development Environment)** that runs code in a browser. It is a Online coding platform.

Search for “replit” in google or click on https://replit.com/

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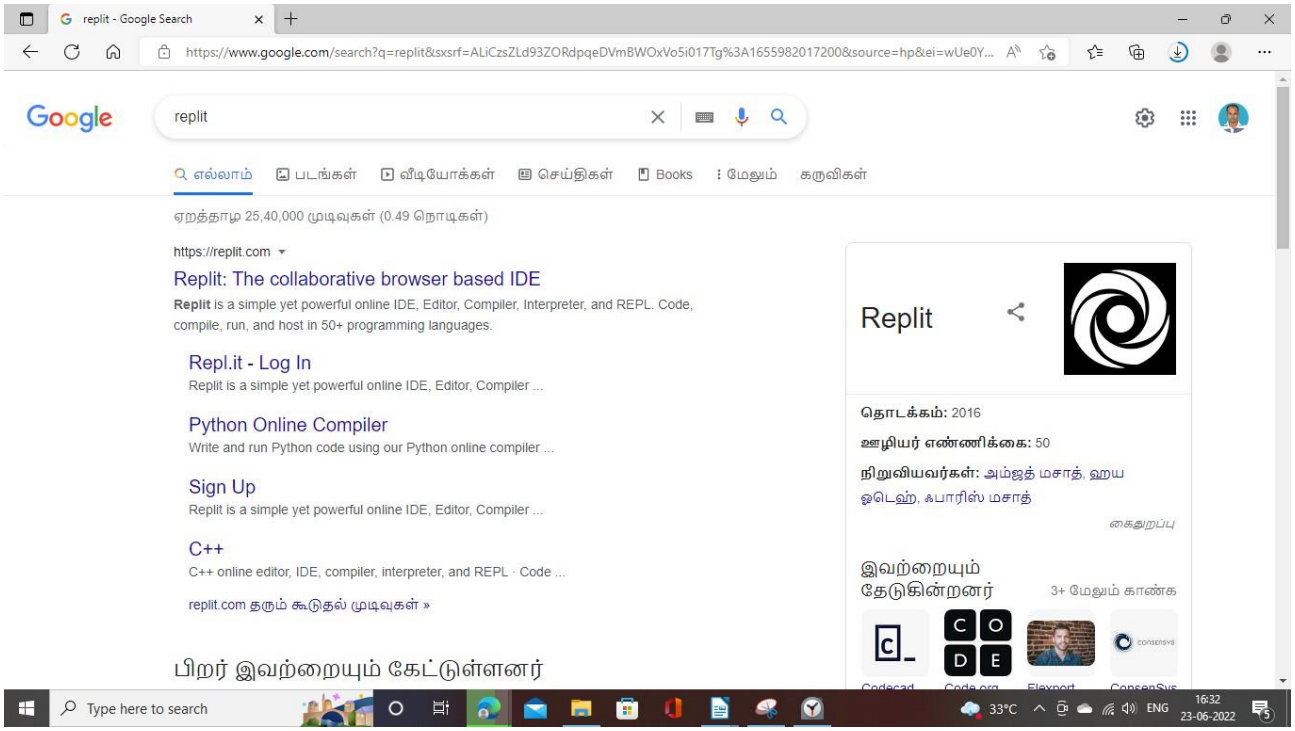
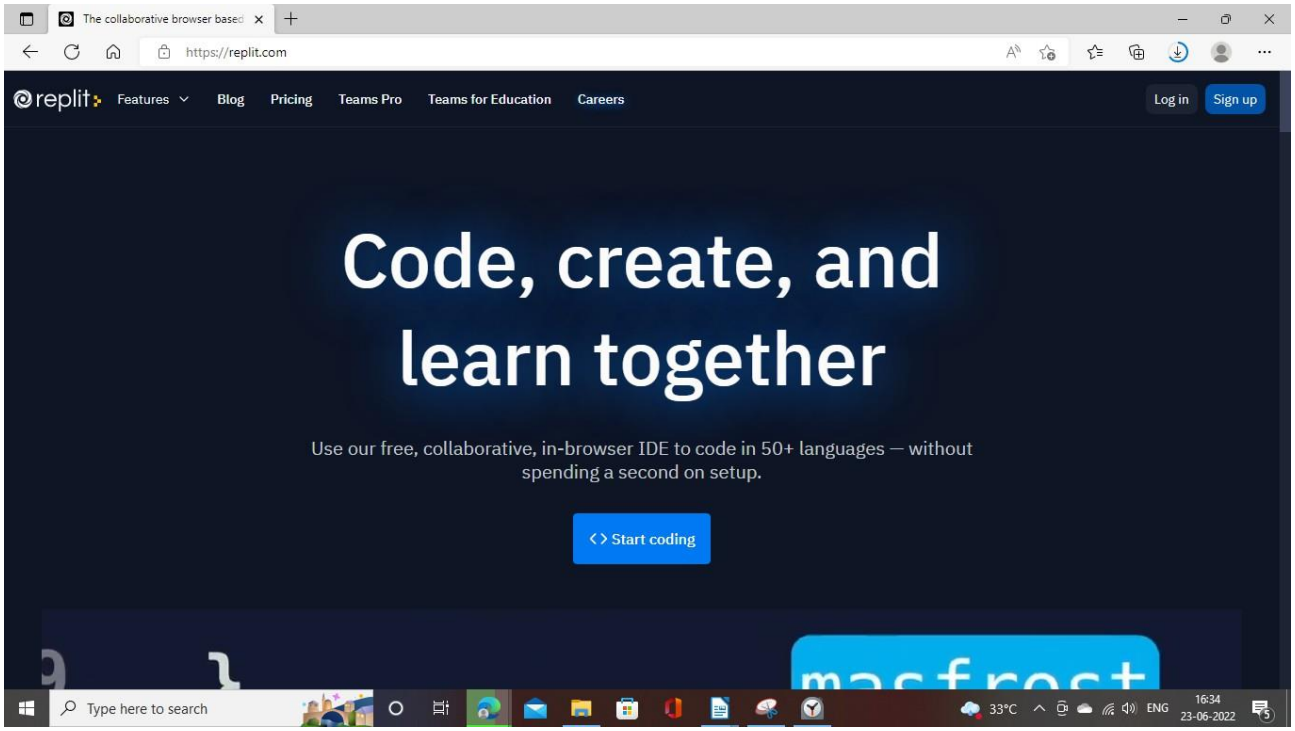
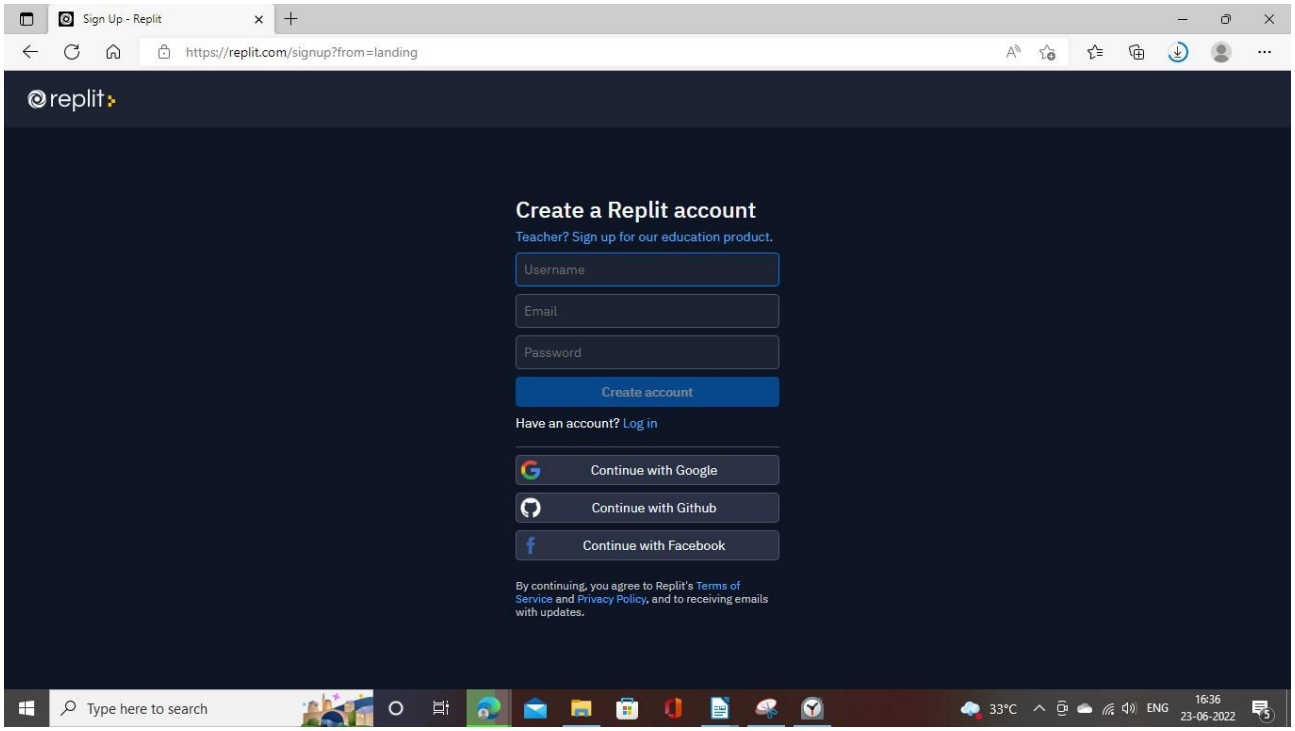
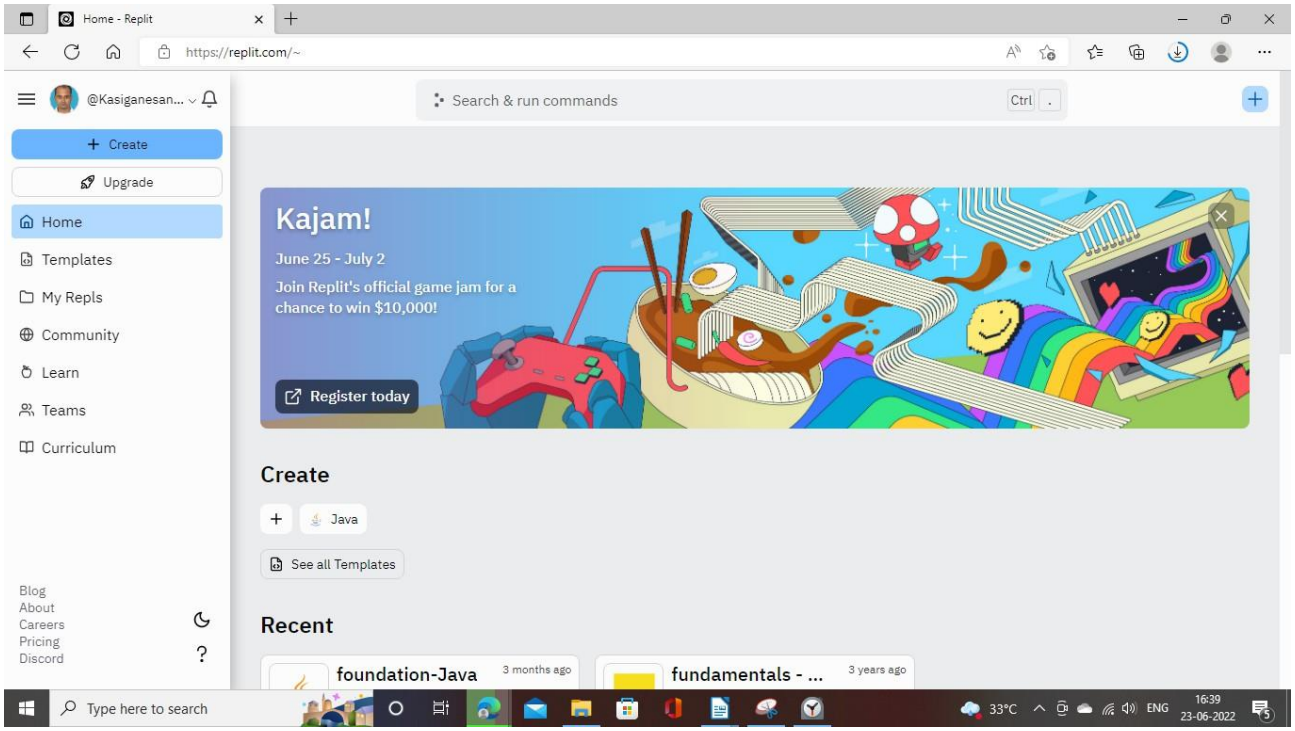




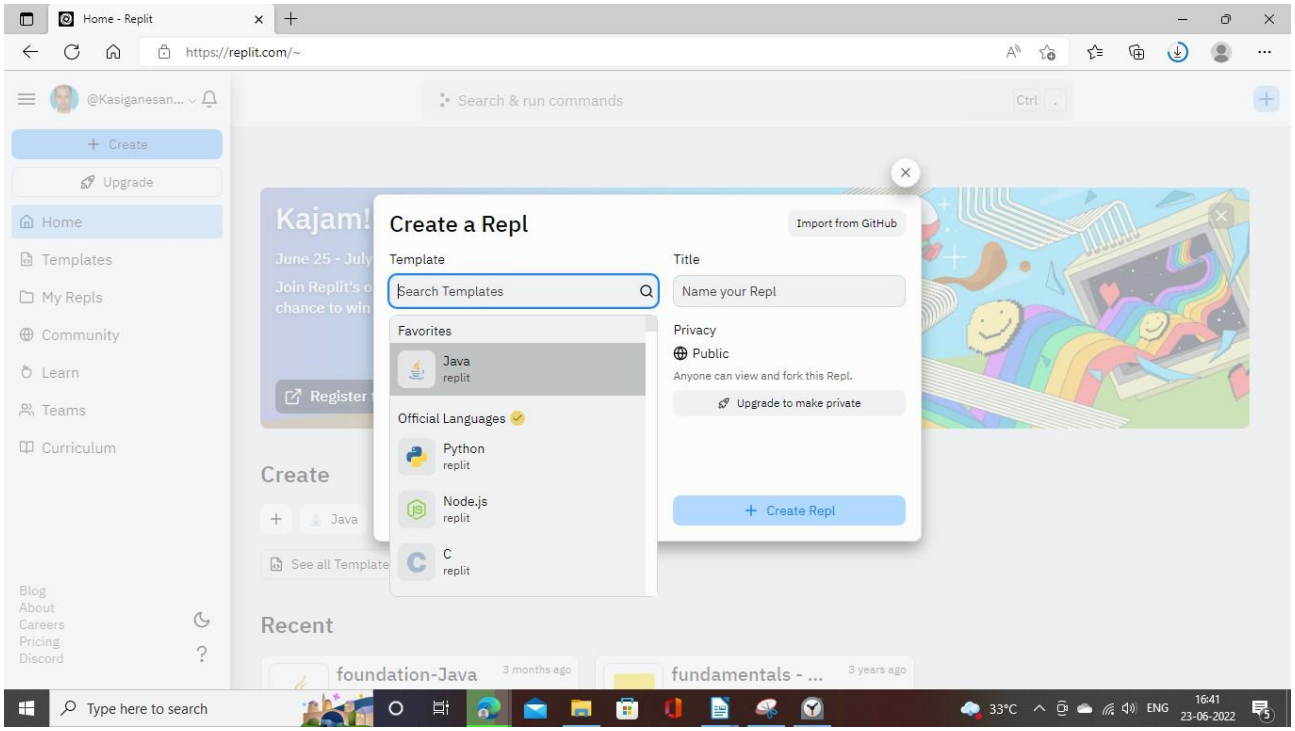
Click on Sign Up if you are new to the plateform. You can click on Continue wih Google if you want to sign in with your google account or you can choose the other two ways (Continue with facebook or Continue with Github if you prefer)



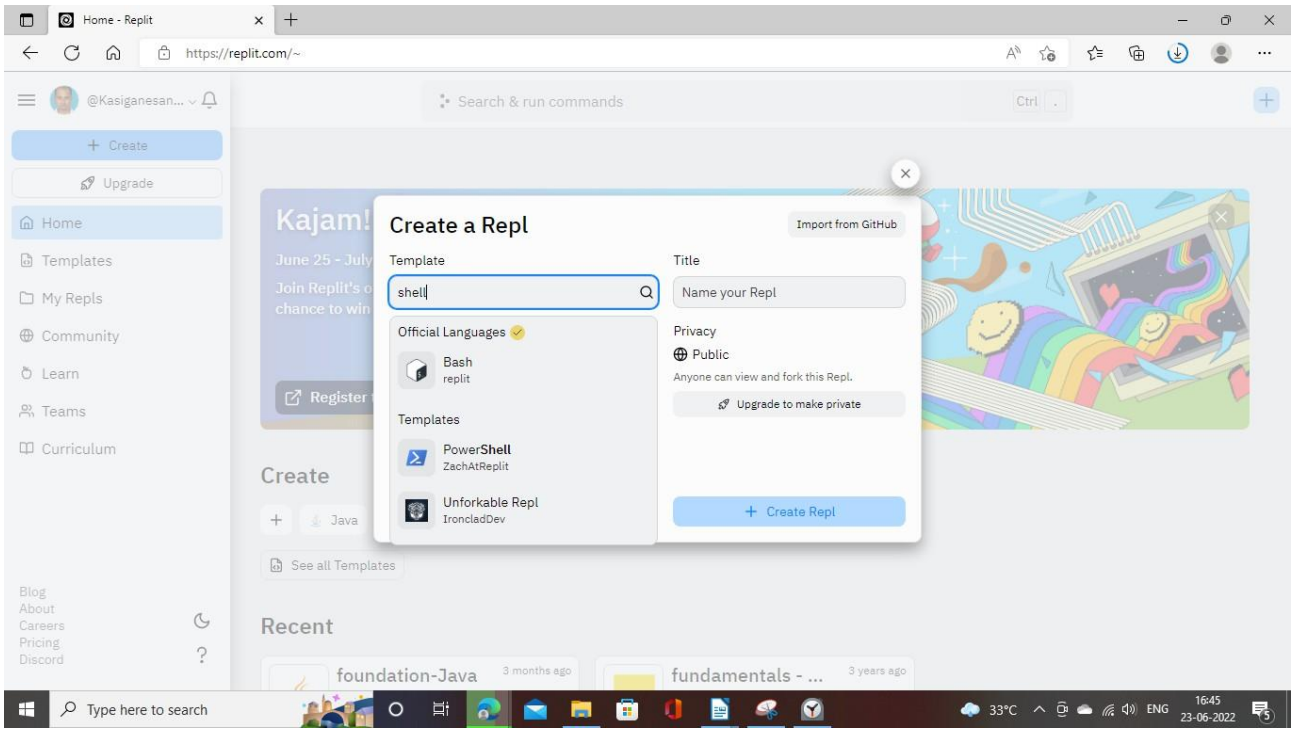
In the resulting page click + Create button to create a new Repl



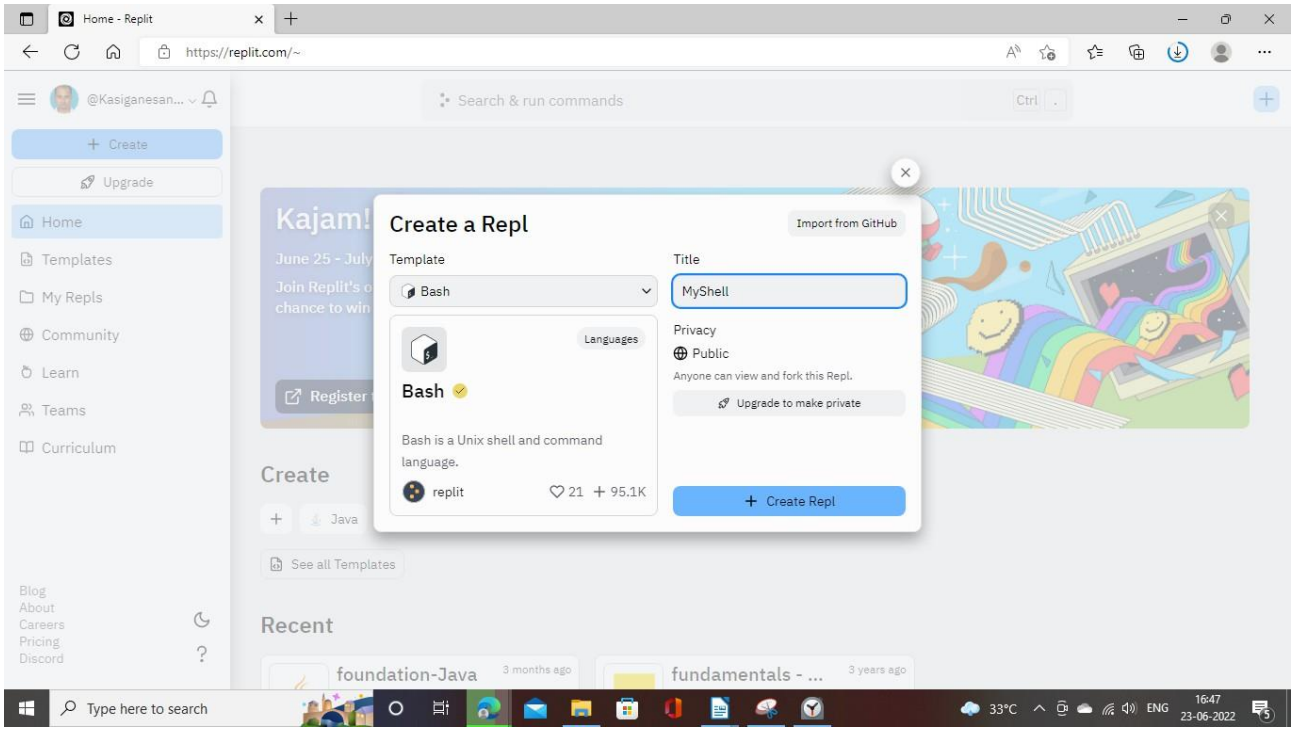
Will look like this



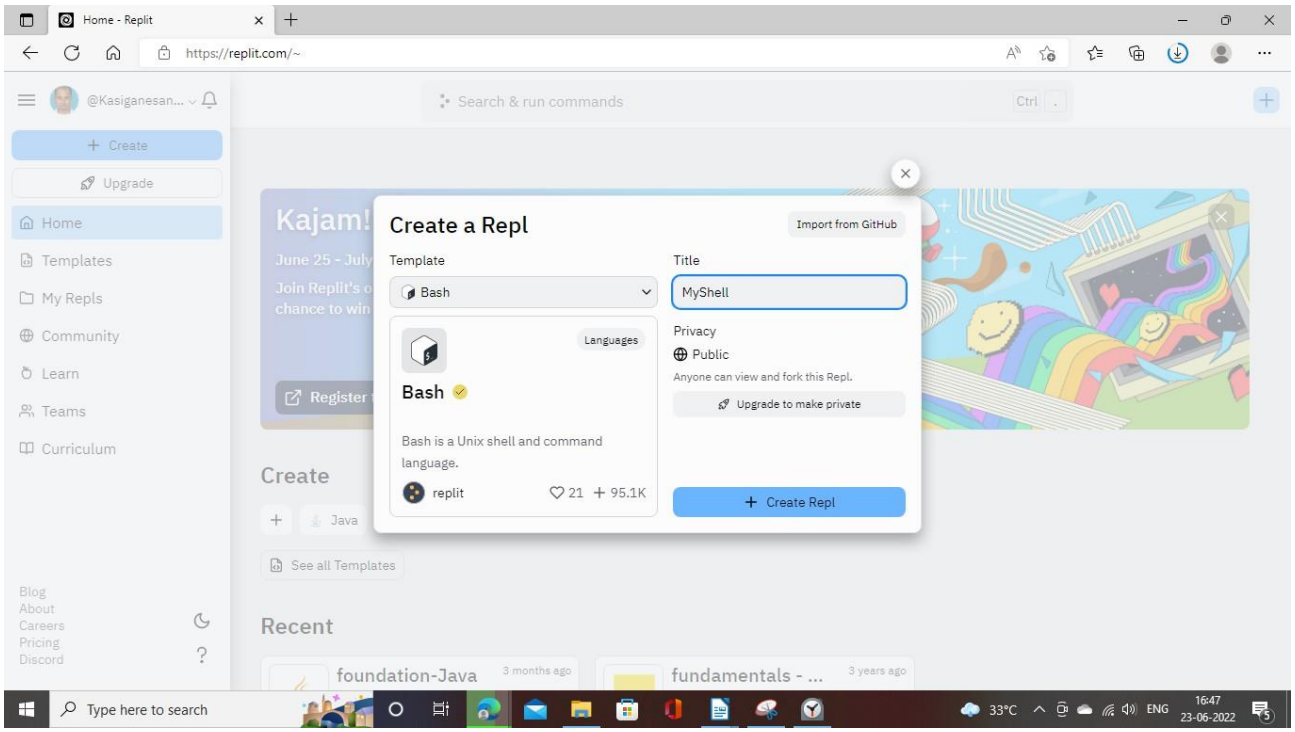
Type shell and select bash from the available list:



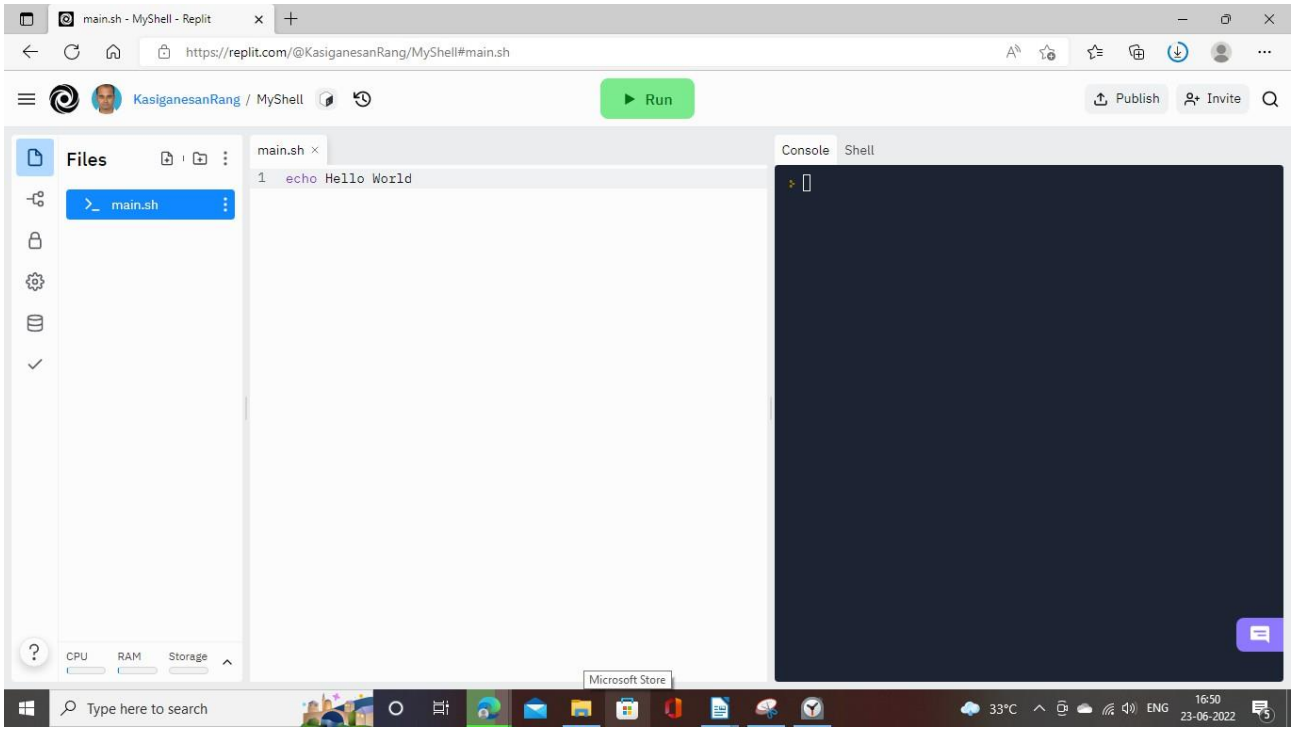
Give a Title as you want.



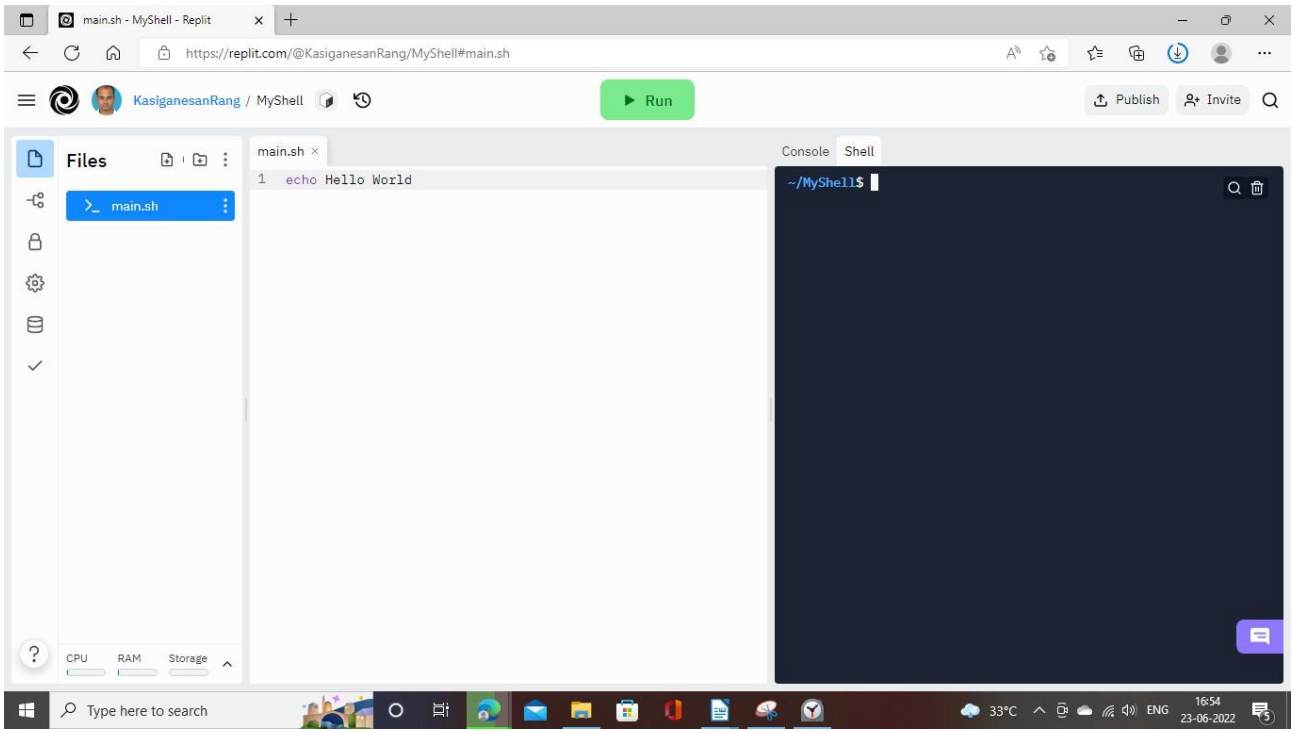
Click the + Create Repl button



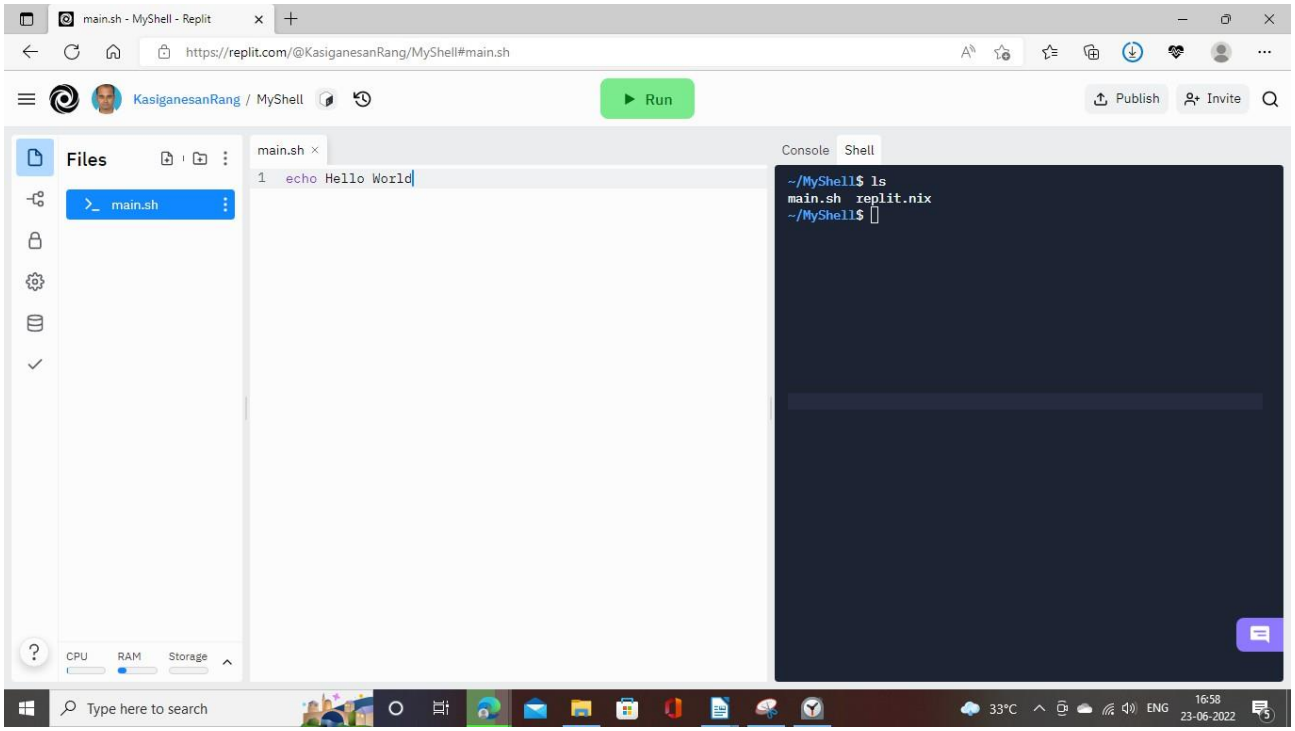
Resulting environment will look like this.



Select the Shell tab on the terminal window on the right



You can use all commands of UNIX/LINUX comfortably here.



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