

# INSTALLATION

## D, installation steps

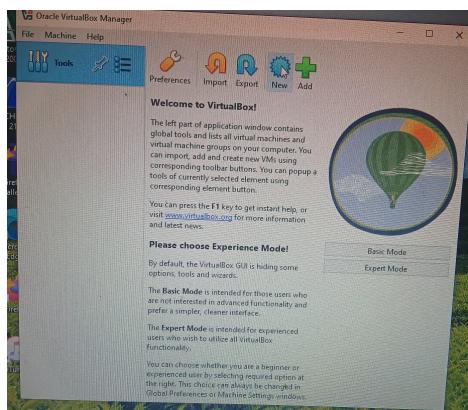
**Step1:** Download and install the latest version of virtual box



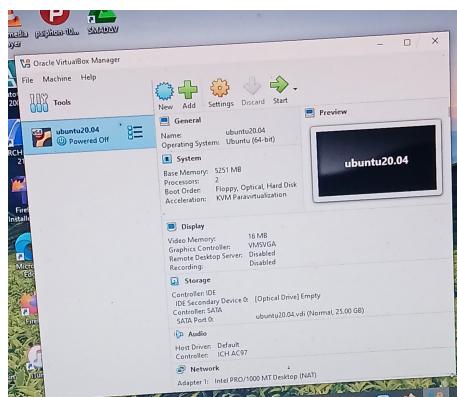
**Step 2:** download ububtu os iso from the official website

**Step 3:** Open the virtual box we installed

- We click the new button as shown in the figure
- Then we fill the Name - ubuntu20.04, type - linux the subtype and the version as shown in the figure

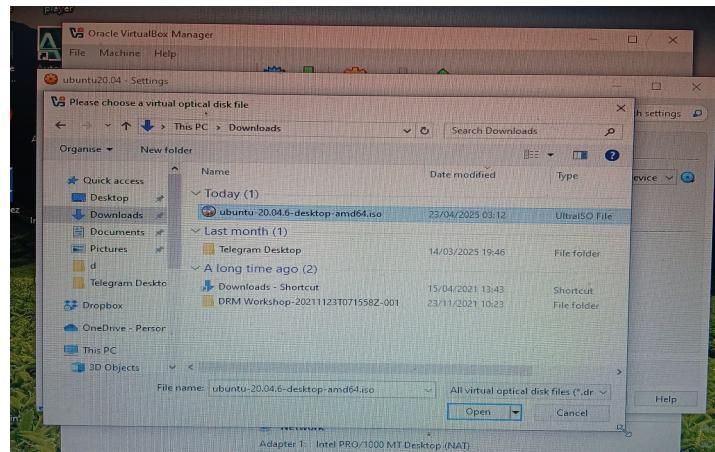
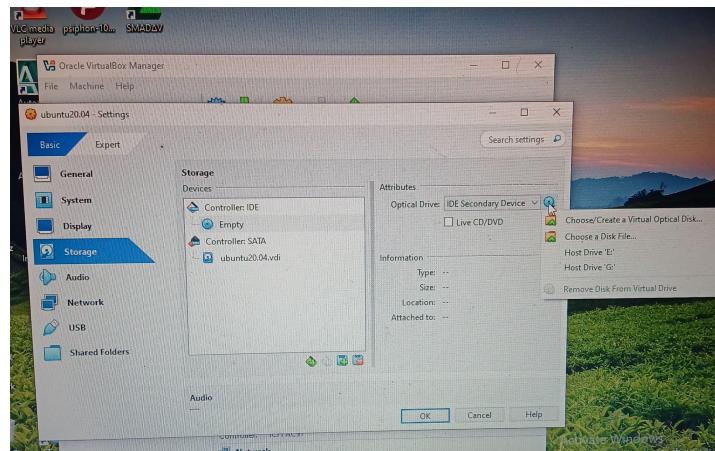


- Then we click next until we get this page



## Step 4: Install ubuntu in virtual box

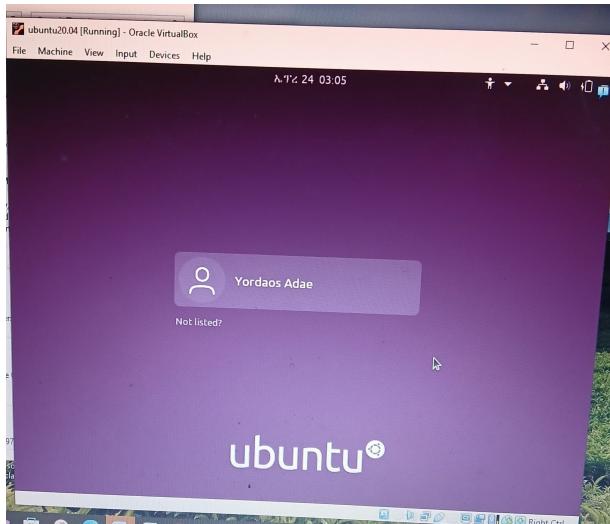
- First we click on setting > general and make the share clipboard and drag n drop bidirectional
- Then click on storage > empty > the blue circle on the right side > choose a disk file as shown in the figure
- Then click on " a disk file as shown in the figure" and we get the following page and we click ubuntu > open.



- We click ok > start > install ubuntu then
- Choose my language
- Choose my keyboard layout
- Check Update and other software
- Choose my location
- Then we will create account

I created account by my full name but in my key board letter b and letter n aren't functioning that's why the spelling is wrong.

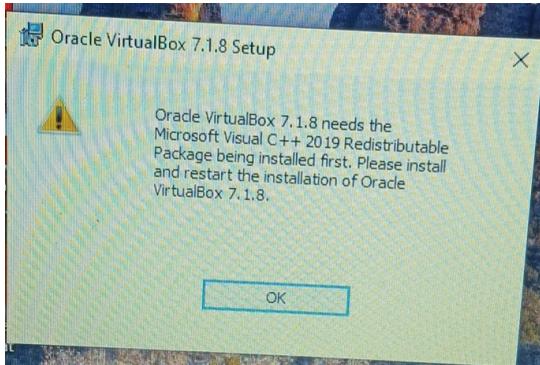
- I also pick username and password and continue
- Then i successfully install ubunu and log in by my password



## E, problems i faced with their solution

### 1, virtual box installation failure

While i tried to install virtual box it was failed



The cause is that my pc haven't Microsoft visual c++

The solution

- download Microsoft visual c++ 2019 redistributable from the official Microsoft website which matches my system architecture
- Install the redistributable
- Restart my computer and
- Try installing the virtual box again. And it worked

2, ubuntu installation failure

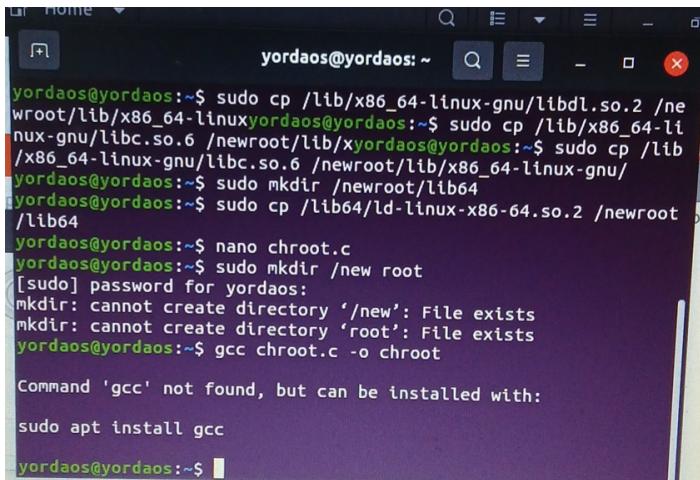
When i tried to install ubuntu in virtual box and when i click start it didn't work because i had to fix the setting.

The solution is

- Restart my computer and before appearing anything in the screen i repeatedly click esc, f10 or f1(the key words for HP window 10) to enter BIOS/UEFI setup setting > system configuration > virtualization technology (make it enable).

3, compilation failed

When i implement system call the compilation was failed



A screenshot of a terminal window titled "yordaos@yordaos: ~". The terminal shows a series of commands being run:

```
yordaos@yordaos:~$ sudo cp /lib/x86_64-linux-gnu/libdl.so.2 /newroot/lib/x86_64-linux-gnu/libc.so.6 /newroot/lib/yordaos@yordaos:~$ sudo cp /lib/x86_64-linux-gnu/libc.so.6 /newroot/lib/x86_64-linux-gnu/lib64/yordaos@yordaos:~$ sudo mkdir /newroot/lib64yordaos@yordaos:~$ sudo cp /lib64/ld-linux-x86-64.so.2 /newroot/lib64yordaos@yordaos:~$ nano chroot.cyordaos@yordaos:~$ sudo mkdir /new root[sudo] password for yordaos:mkdir: cannot create directory '/new': File existsmkdir: cannot create directory 'root': File existsyordaos@yordaos:~$ gcc chroot.c -o chrootCommand 'gcc' not found, but can be installed with:sudo apt install gccyordaos@yordaos:~$
```

The cause was that the gcc compiler is not installed on my system

The solution is that

- Type the installation command  
Sudo apt install gcc
- Then it asked me my password and i will enter
- Then i have to confirm my installation by saying yes
- Then wait for the installation to complete