

Install Ubuntu/Linux

Target

1. Install Ubuntu on VirtualBox
2. Write a 'hello world' program with c

Tools

VirtualBox

VirtualBox 6.1

[VirtualBox](#)

1. VirtualBox 6.1.38 platform packages
2. VirtualBox 6.1.38 Oracle VM VirtualBox Extension Pack

Ubuntu

Ubuntu 22.04 LTS

[Ubuntu] (<https://ubuntu.com/download/desktop>)

[Ubuntu] (<https://ubuntu.com/download/desktop/thank-you?version=22.04.1&architecture=amd64>)

How to do

0. Download and verify the ISO: ubuntu-22.04.1-desktop-amd64.iso

```
$ sha256sum.exe ubuntu-22.04.1-desktop-amd64.iso
b45165ed3cd437b9ffad02a2aad22a4ddc69162470e2622982889ce5826f6e3d *ubuntu-22.04.1-
desktop-amd64.iso
$ md5sum.exe ubuntu-22.04.1-desktop-amd64.iso
77fc715a283e41d0ad33d6418a9ba128 *ubuntu-20.04.1-desktop-amd64.iso
$
```

1. Create a virtual machine

Virtual Disk: >=60GB

2. Install Ubuntu

UserName: Your Name + Your Student ID

3. Post-Install Ubuntu

3.1 Update the Ubuntu online

```
sudo apt-get update  
sudo apt-get upgrade
```

3.2 Insert Guest Additional CD Image to install enhanced drivers for Guest Ubuntu

```
sudo usermod -a -G vboxsf YourUserName  
sudo reboot
```

4. Using Ubuntu and Write the first c program on Ubuntu

4.1 Install GCC

```
sudo apt-get install build-essential
```

4.2 Write "Hello world" Program with c : hello.c

Please Hello World, Hello Your Instructor, Hello Yourself

4.3 Compile the program

```
gcc -o hello hello.c
```

4.4 Execute the program

```
./hello
```