

# 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
c396e956a9f52c418397867d1ea5c0cf1a99a49dcf648b086d2fb762330cc88d *ubuntu-22.04.1-
desktop-amd64.iso
$ md5sum.exe ubuntu-22.04.1-desktop-amd64.iso
8c651682056205967d530697c98d98c3 *ubuntu-22.04.1-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
```