How to create a virtual workspace in Windows

1 Download VirtualBox

To download VirtualBox, you can go to the following link:

Download VirtualBox Here

2 Download Vagrant

To download Vagrant, you can go to the following link:

Download Vagrant Here

Install the version of your operating system.

3 Download Git

To download Git, you can go to the following link:

Dowload Git Here

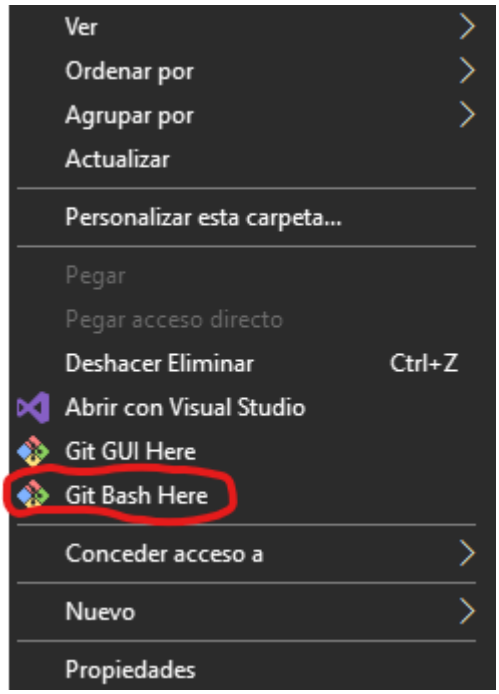
4 Download a text editor

Download a text editor of your choice, I recommend Visual Studio Code.

Dowload Visual Studio Code Here

5 Move between folders

You have to open a cmd or gitBash terminal, to do it this way you just have to right click on a folder or on the desktop and the terminal will open.



5.1 CMD commands:

1. I recommend working in the home folder.

```
cd C:\Home
```

2. Once in the selected folder, we are going to create another folder with the name ISW811 (it can be different).

```
mkdir ISW811
```

3. We access a created folder.

```
cd ISW811
```

4. We create another folder called VMs.

```
mkdir VMs
```

5. We access a created folder.

```
cd VMs
```

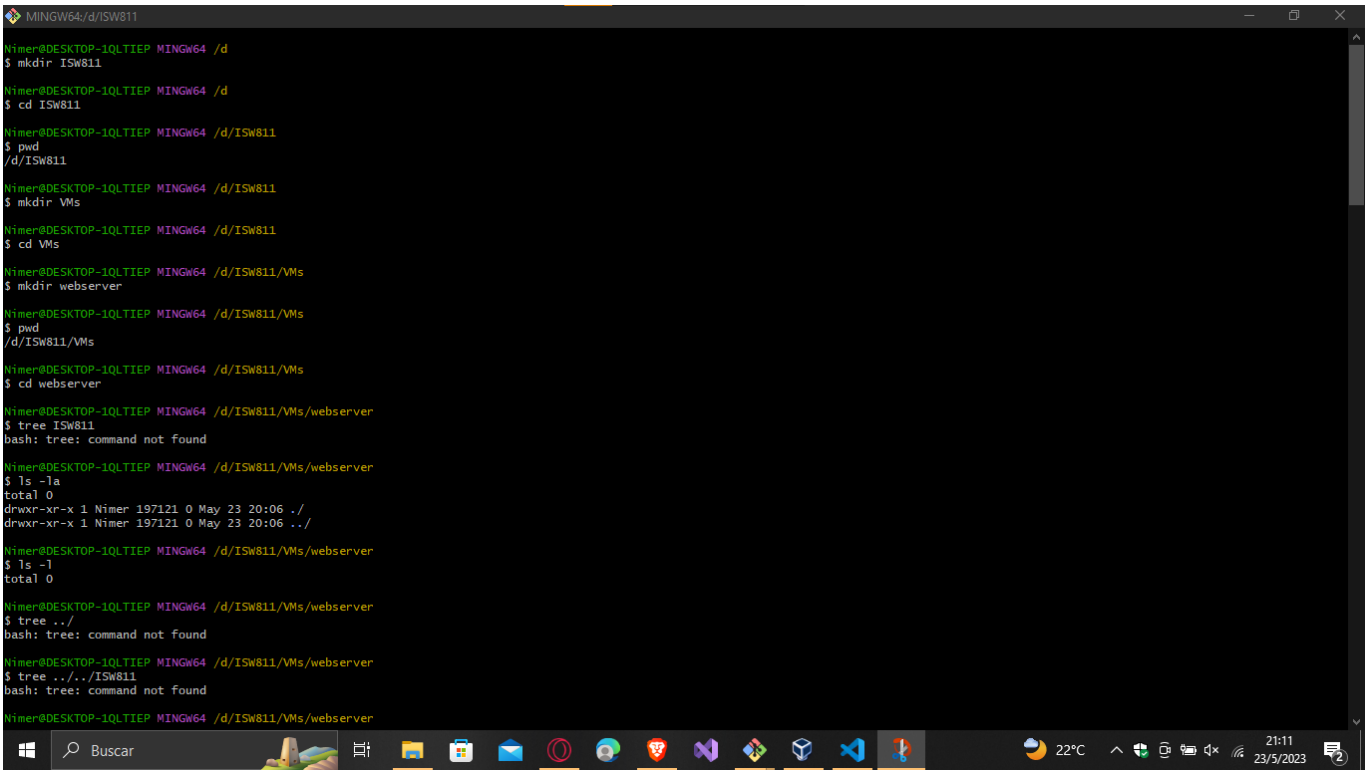
6. We create another folder called, with the name of your project.

```
mkdir webserver
```

7. We access a created folder.

```
cd webserver
```

In the next part you can see an image with process



6 Create a virtual workspace

To create a virtual workspace, you need to enter the web server folder, created earlier.

6.1 Start vagrant with its respective operating system, to create the virtual space

command

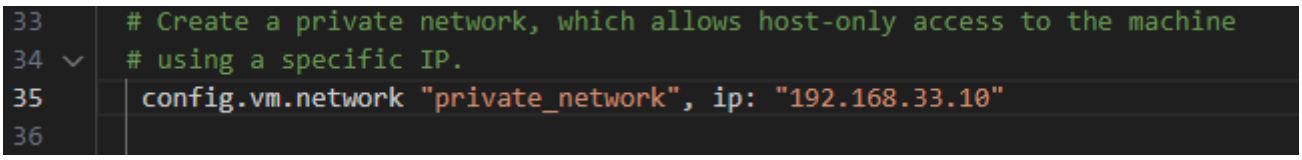
```
vagrant init debian/bullseye64
```

6.2 You need to edit the code that was created in the above command.

This command will open the Visual Studio code, you just have to uncomment line 35. command

```
code Vagranfile
```

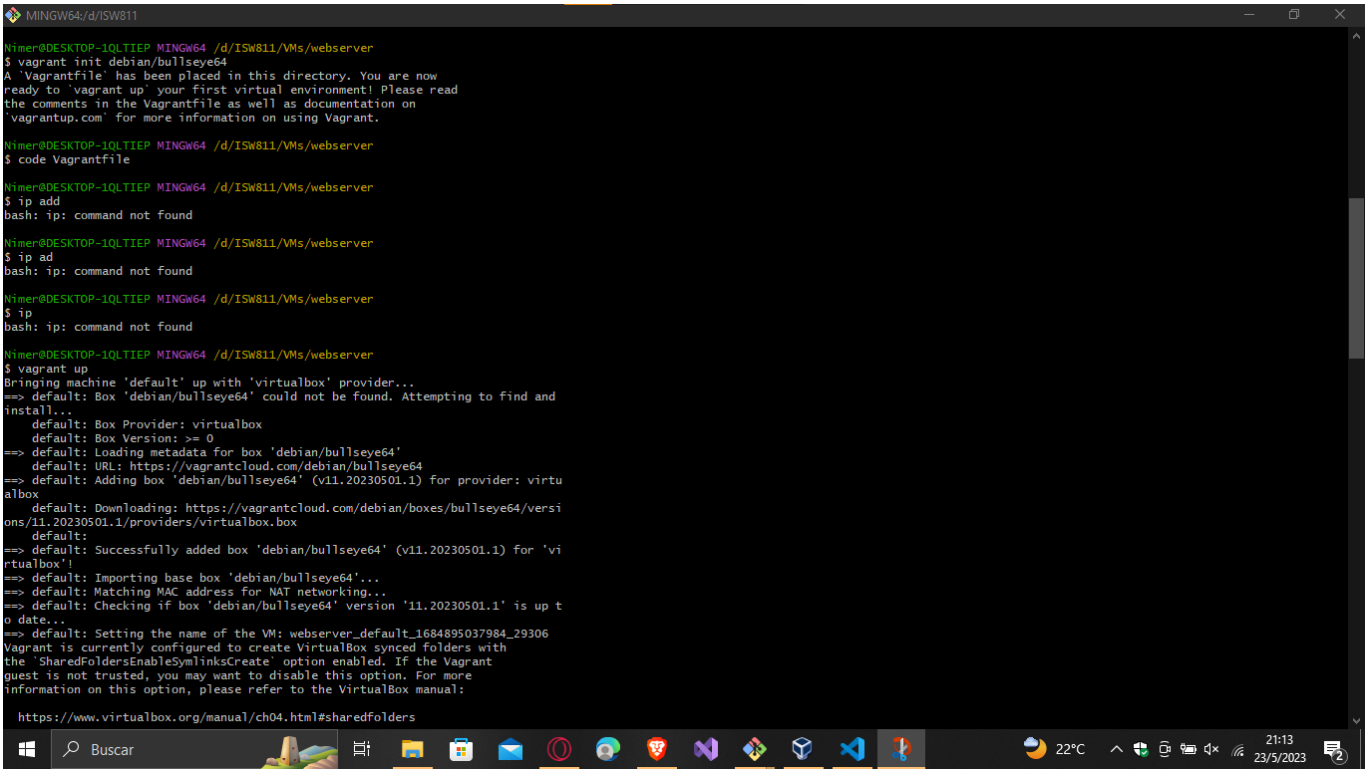
like what you see in the following image



6.3 The following command configures the machine, to be able to start it.

```
vagrant up
```

It has to stay as follows

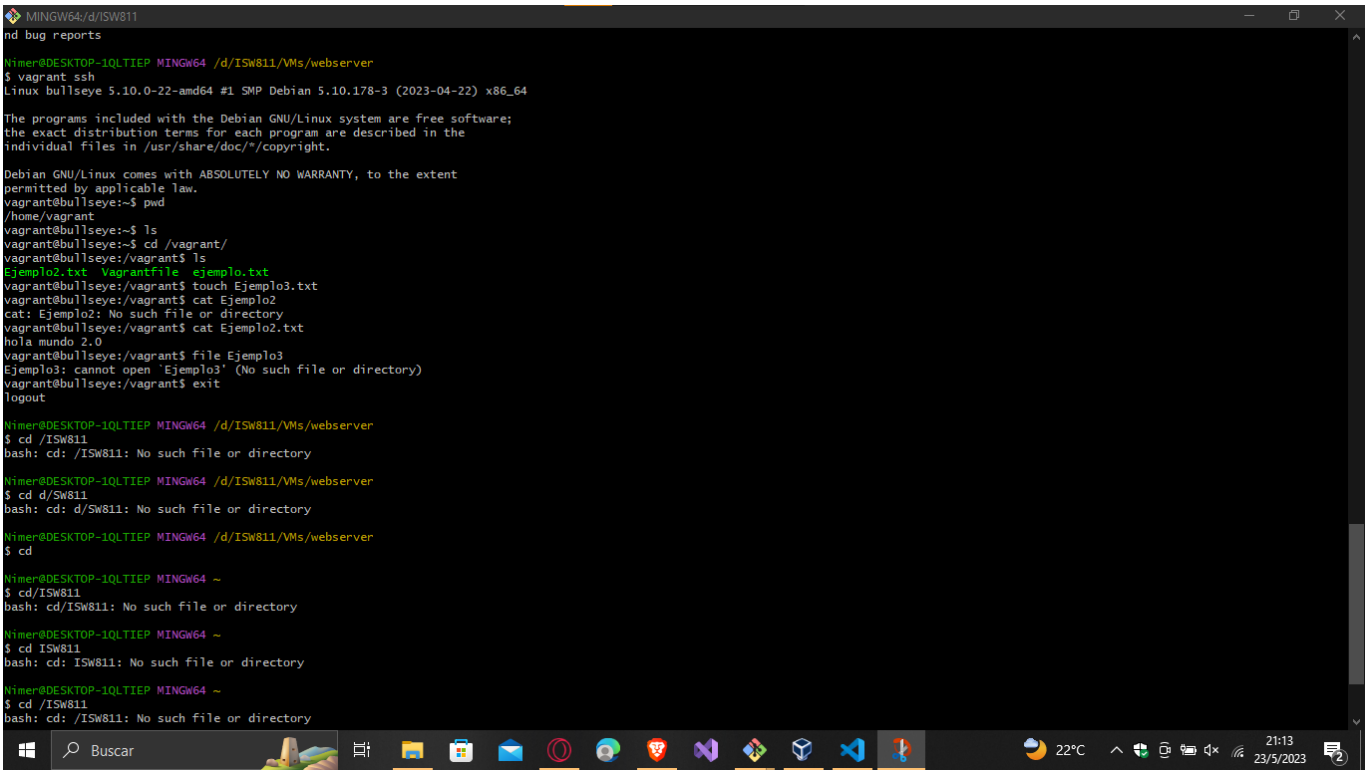


6.4 The following command starts the machine.

```
vagrant ssh
```

Another terminal will open but this time from the virtual machine, which will be your workspace.

It has to stay as follows



6.5 To close the machine you can do it with the following command

First log out of the virtual machine

```
exit
```

Once you are back in the console run the following command

```
vagrant halt
```

To start the machine again, execute the following commands

```
vagrant up

vagrant ssh
```