

# Workshop 01

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## Creating working directory

First of all, we must create a new working directory by executing the following commands in the desired folder, using always git bash.

```
cd ~  
mkdir ISW811  
cd ISW811  
mkdir Workshop01  
cd Workshop01
```

A readme is necessary, to create it, one can do it manually or through commands, like this:

```
touch Readme.md  
code .
```

## Working with Vagrant

To create a VagrantFile for debian Bookworm, we use the following command

```
vagrant init debian/bookworm64
```

This will be done after creating a folder in "Workshops" named VMs, and then another one inside "webserver"

To continue, one shall enter VagrantFile and de-comment line 35 to see the private network. As 33 is not used in virtualbox, we're gonna change it to 56 and the 10 will be anything the same or greater than it.

The changes look like this:

```
#config.vm.network "private_network", ip: "192.168.33.10"
```

```
config.vm.network "private_network", ip: "192.168.56.10"
```

If there is not such network, it must be created in the virtualbox tool compartment

Now, and only now, we can get the vagrant up, just like this:

```
vagrant up  
vagrant status
```

## Installing dependencies

To download the available list of packages, and then install the ones we require, we use the following commands

```
sudo apt-get update  
sudo apt-get install -y apache  
sudo apt-get install -y curl
```

## IP addresses

The following commands are to confirm the connection between the host and the virtual machine

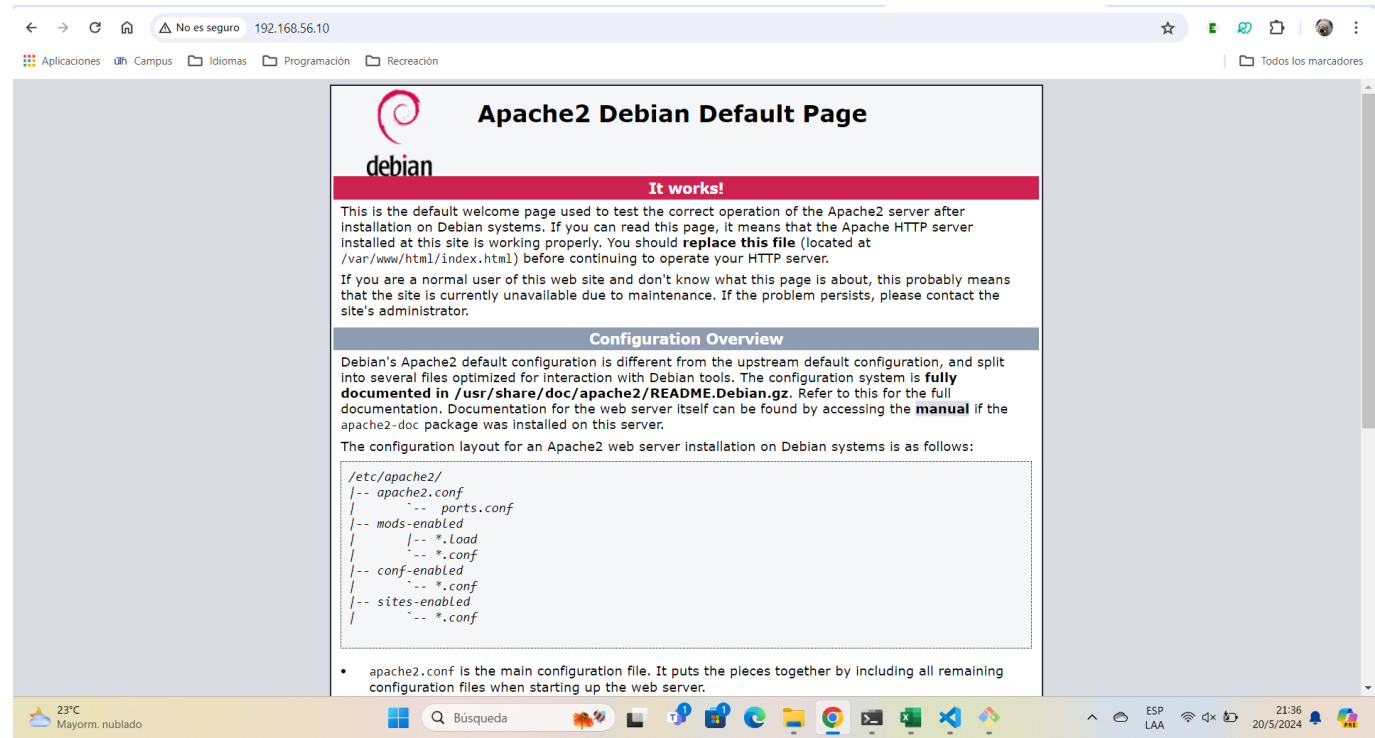
First, in the virtual machine

```
ip ad
```

And then, in the host:

```
ping 196.168.65.10
```

Finally, that same ip should be running in the browser, like this:



To shut the virtual machine down, finally:

```
exit
vagrant halt
```

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