Homework 1

Virtualization

Install VirtualBox in your machine.

First, we need to go to the official website where we can find the installer.

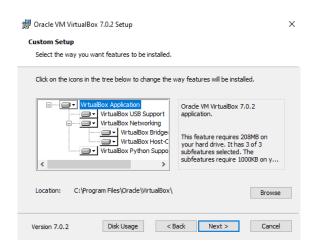
• https://www.virtualbox.org/wiki/Downloads



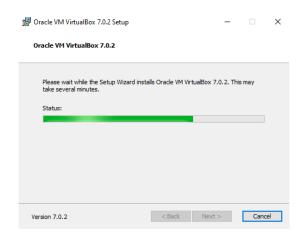
Once downloaded this resource we install it, on our computer.

STEP 1. STEP 2.





STEP 3. STEP 4.



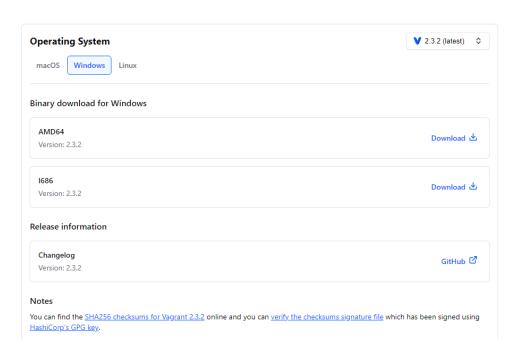


Install Vagrant in your machine.

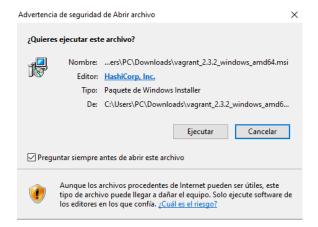
First, we need to go to the official website where we can find the installer.

https://developer.hashicorp.com/vagrant/downloads

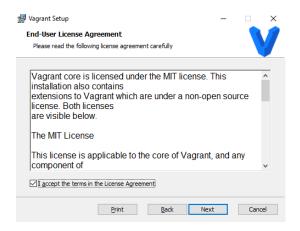




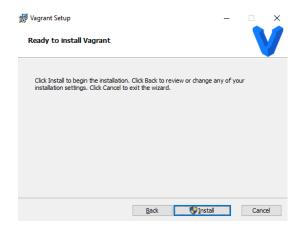
STEP 1.



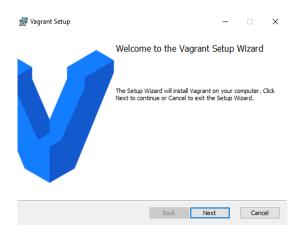
STEP 3.



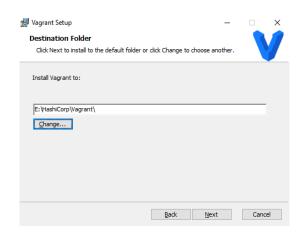
STEP 5.



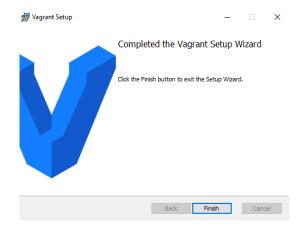
STEP 2.



STEP 4.



STEP 6.

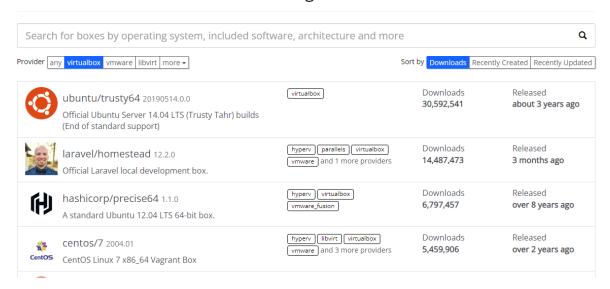


Stand Up an **Ubuntu** 20.04.x Server LTS VM and **Debian**.

To make this step, we need to find the SO that we are looking for.

https://app.vagrantup.com/boxes

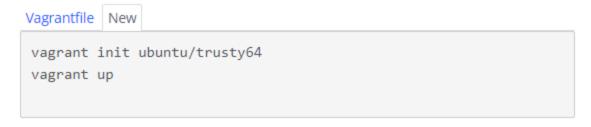
Discover Vagrant Boxes



Then we chose our SO to vagrant up it.

ubuntu / trusty64 Vagrant box

How to use this box with Vagrant:



debian/jessie64 Vagrant box

How to use this box with Vagrant:

```
Vagrantfile New

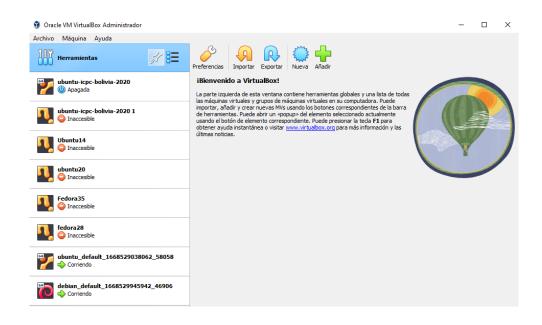
vagrant init debian/jessie64

vagrant up
```

We run this commands in our prompt.

```
PS F:\Devops test\ubuntu> vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/trusty64' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/trusty64'
    default: URL: https://vagrantcloud.com/ubuntu/trusty64
==> default: Adding box 'ubuntu/trusty64' (v20190514.0.0) for provider: virtualbox
    default: Downloading: https://vagrantcloud.com/ubuntu/boxes/trusty64/versions/201905
Download redirected to host: cloud-images.ubuntu.com
```

And then it's all set.



Concepts

Investigate: What is Software Architecture and how it is related to Enterprise Architecture.

Enterprise architect

Enterprise architects make sure that the IT strategy is in line with the goals of the company. They are responsible for defining all business demands after doing an analysis of the internal and external environments of the company.

Enterprise architects, out of all IT architects, have the broadest understanding of the **organization** and its **capabilities**.

They are responsible for examining the most recent **developments** in **technological** architecture.

Software architect

Compared to Enterprise architects, **software architects** have a **considerably** more **detailed** perspective.

They establish **technical leadership** and **technical direction** for development teams as well as **best practice** standards. They oversee the conceptualization and strategic planning of new products, including hardware, software, and design code methodology planning. The main concerns of software architects are deployment, compatibility, tech strategy,