

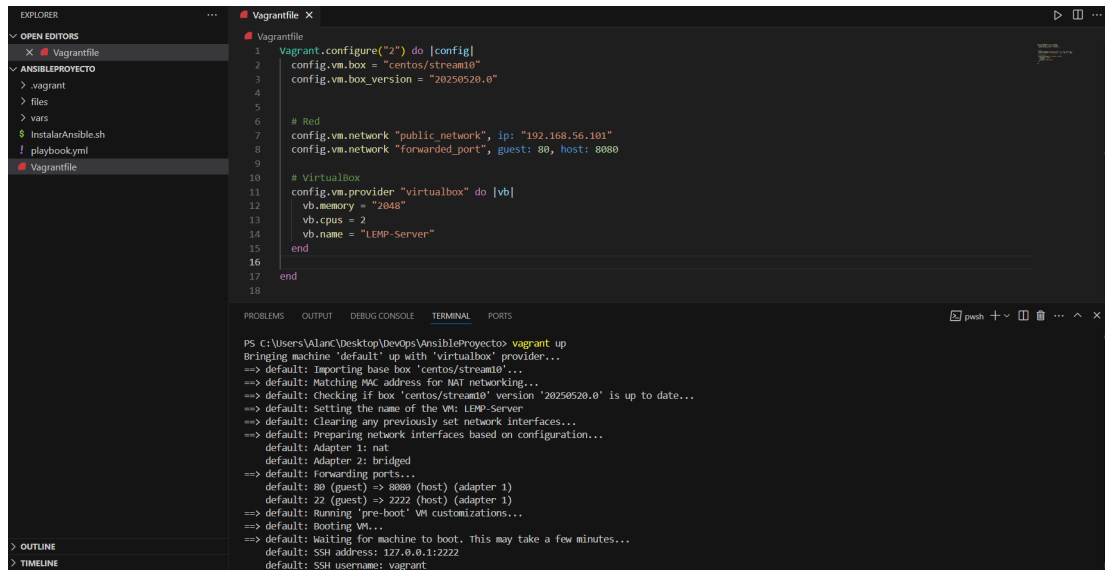
Tutorial LEMP Centos en Ansible

Prerrequisitos: VirtualBox, tener habilitado en BIOS virtualizar y Vagrant

1- Descargar Vagrant → <https://developer.hashicorp.com/vagrant/install>

2- Abrir en consola de comandos la ruta del proyecto Ansible (usare visual studio code)

3-Generamos la VM con el comando → `vagrant up`



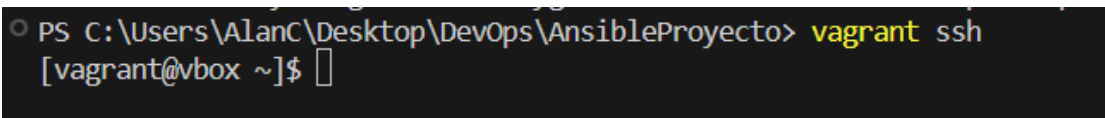
The screenshot shows the Visual Studio Code interface. On the left, the Explorer pane shows a project named 'ANSIBLEPROYECTO' with files like 'vagrant', 'files', 'vars', 'InstalarAnsible.sh', and 'playbook.yml'. The main editor shows a 'Vagrantfile' with the following content:

```
1  Vagrant.configure("2") do |config|
2    config.vm.box = "centos/stream10"
3    config.vm.box_version = "20250520.0"
4
5
6
7    # Red
8    config.vm.network "public_network", ip: "192.168.56.101"
9    config.vm.network "forwarded_port", guest: 80, host: 8080
10
11
12    # VirtualBox
13    config.vm.provider "virtualbox" do |vb|
14      vb.memory = "2048"
15      vb.cpus = 2
16      vb.name = "LEMP-Server"
17    end
18  end
```

The bottom pane shows the terminal output of the `vagrant up` command:

```
PS C:\Users\Alanc\Desktop\DevOps\AnsibleProyecto> vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
=> default: Importing base box 'centos/stream10'...
=> default: Patching MAC address for NAT networking...
=> default: Checking if box 'centos/stream10' version '20250520.0' is up to date...
=> default: Setting the name of the VM: LEMP-Server
=> default: Clearing any previously set network interfaces...
=> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
    default: Adapter 2: bridged
=> default: Forwarding ports...
    default: 80 (guest) => 8080 (host) (adapter 1)
    default: 22 (guest) => 2222 (host) (adapter 1)
=> default: Running 'pre-boot' VM customizations...
=> default: Booting VM...
=> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
```

4-Ahora para conectarnos usamos → `vagrant ssh`



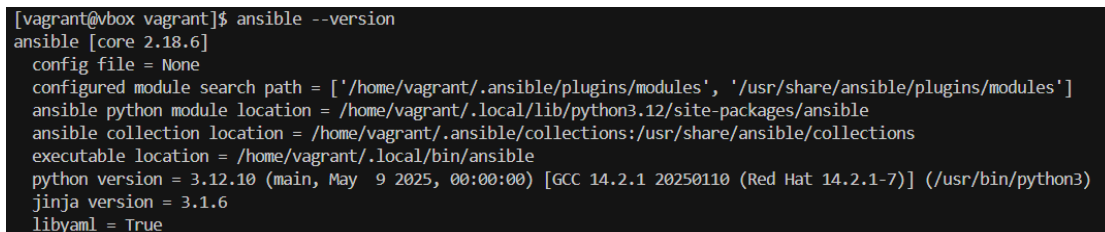
The screenshot shows a terminal window with the command `vagrant ssh` being executed. The output is:

```
PS C:\Users\Alanc\Desktop\DevOps\AnsibleProyecto> vagrant ssh
[vagrant@vbox ~]$
```

5-Dentro de la máquina ejecutar esto dos comandos

```
cd /vagrant
./InstalarAnsible.sh
```

Esto ejecutará un script para instalar Ansible, una vez finalizado comprobar con `ansible --version`



The screenshot shows a terminal window with the command `ansible --version` being executed. The output is:

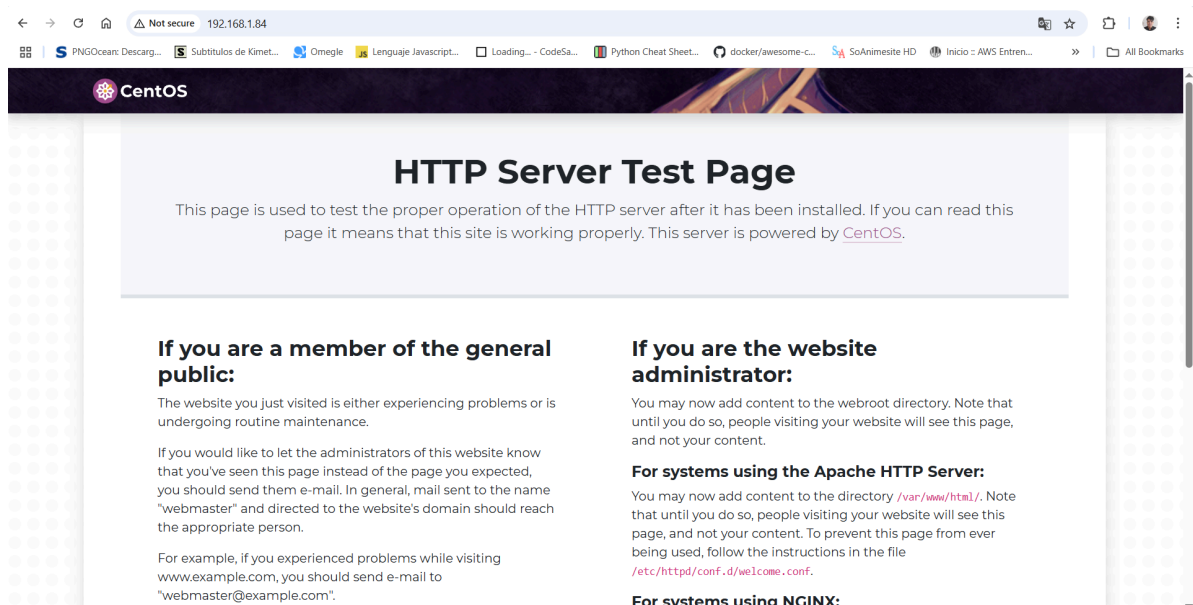
```
[vagrant@vbox vagrant]$ ansible --version
ansible [core 2.18.6]
  config file = None
  configured module search path = ['/home/vagrant/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /home/vagrant/.local/lib/python3.12/site-packages/ansible
  ansible collection location = /home/vagrant/.ansible/collections:/usr/share/ansible/collections
  executable location = /home/vagrant/.local/bin/ansible
  python version = 3.12.10 (main, May  9 2025, 00:00:00) [GCC 14.2.1 20250110 (Red Hat 14.2.1-7)] (/usr/bin/python3)
  jinja version = 3.1.6
  libyaml = True
```

6-Ejecutar ansible-playbook `playbook.yml` (no es necesario el inventory porque es solo localhost) finalizado sin ningún error

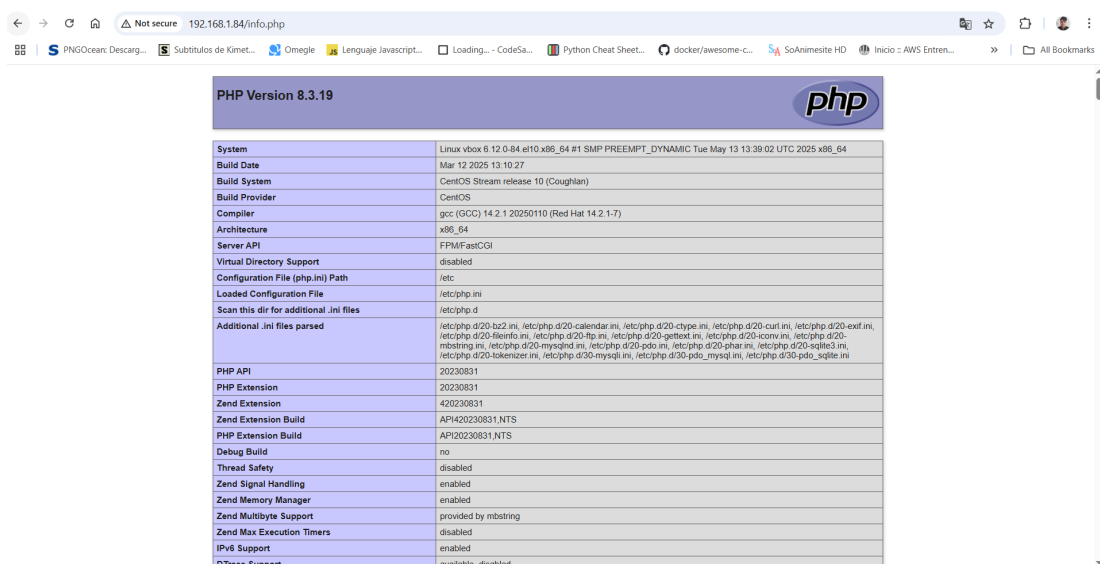
```
PLAY RECAP *****
localhost                : ok=11   changed=7    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

7-Averiguamos nuestra ip con hostname -I que debemos reemplazar para ver las web, tambien puedo verificar mis servicios activos con systemctl

Verificó NGINX con tu `http://server_domain_name_or_IP/`



Verifico PHP WEB `http://server_host_or_IP/info.php`



Github del desafio: <https://github.com/AlanClausel/AnsibleProyecto>

Aclaraciones: Use Centos 10 Stream debido a que Centos 7 está fuera de servicio.