DWES - [Carlos Romero Romero]

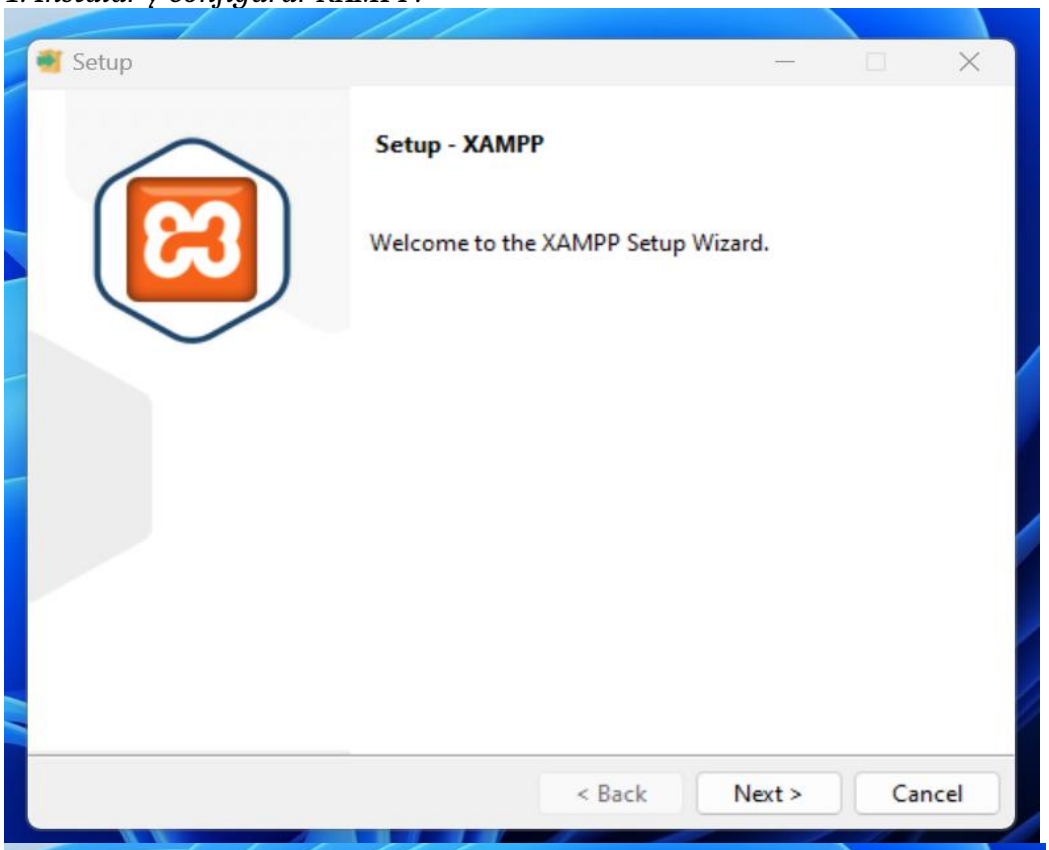
[Actividades evaluables - UD1]

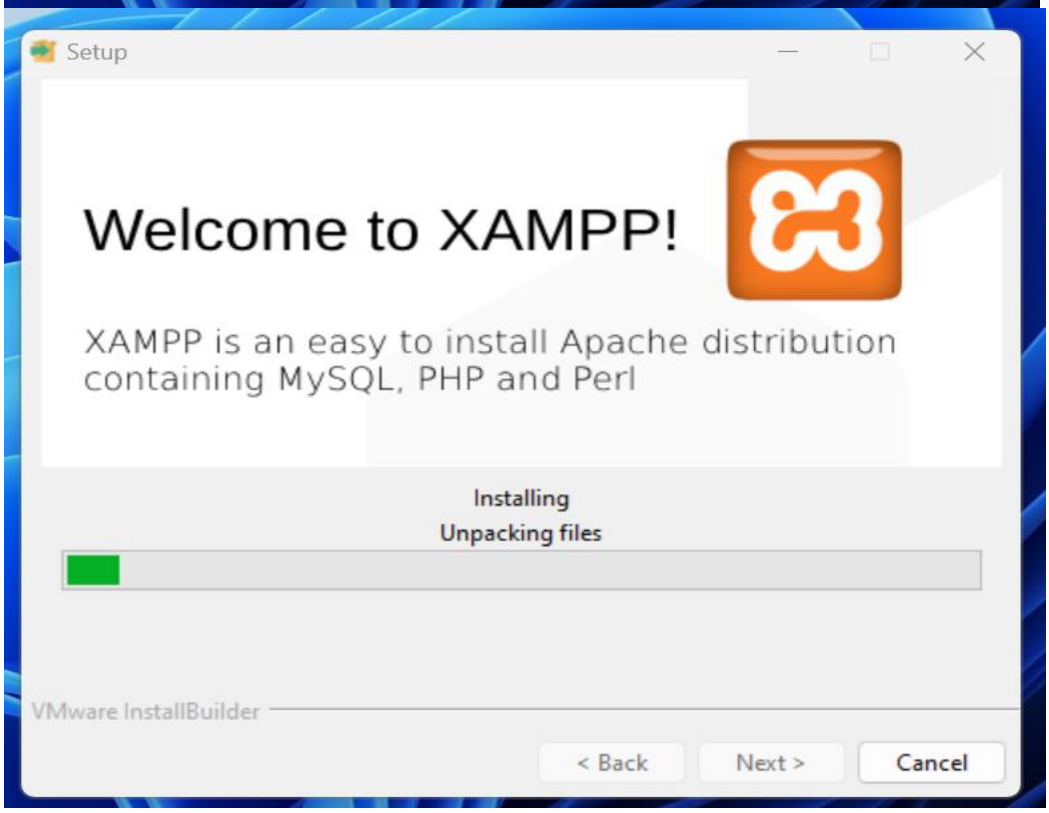
[Entorno de desarrollo PHP]

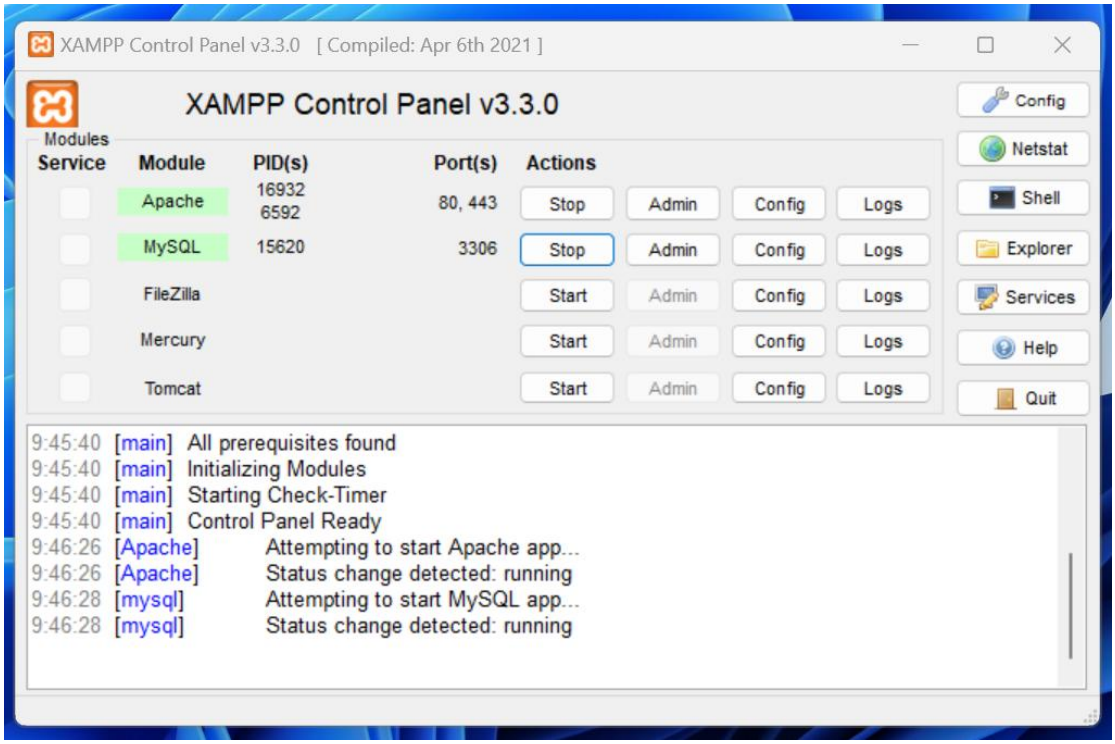
Actividad 1.

Objetivo: Instalar y configurar un paquete software que integre Apache, PHP y MSQL.

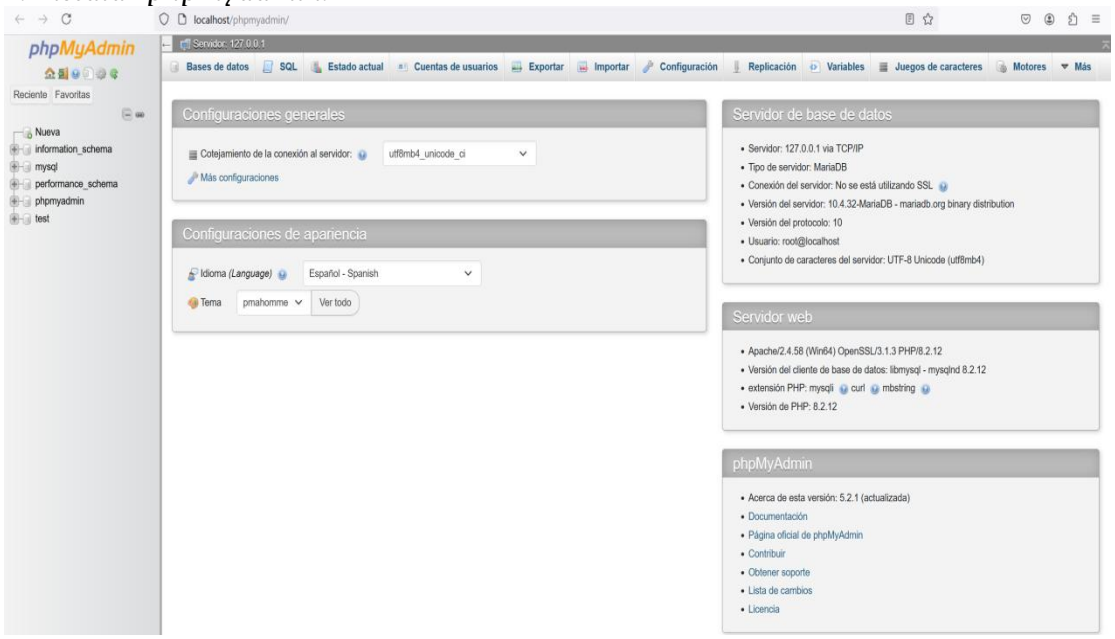
1. Instalar y configurar XAMPP:







2. Instalar phpmyadmin.



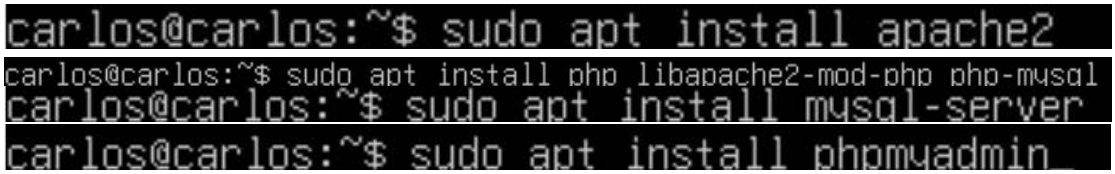
3. Probar la aplicación creando un porfolio personal básico.

Actividad 2.

Objetivo: Instalación y configuración de un entorno web utilizando una máquina virtual.

1. Descargar e instalar VirtualBox.

2. Crear una máquina virtual con Ubuntu Server e instalar de manera independiente Apache, MariaDB, PHP y phpMyAdmin.



```
carlos@carlos:~$ mysql --version
mysql  Ver 8.0.39-0ubuntu0.24.04.2 for Linux on x86_64 ((Ubuntu))
carlos@carlos:~$ dpkg -l | grep phpmyadmin
ii  php-phpmyadmin-motranslator          5.3.1-1                                 all
ii  php-phpmyadmin-shapefile             3.0.2-1                                 all
ii  php-phpmyadmin-sql-parser            5.8.2-1                                 all
ii  phpmyadmin                           4:5.2.1+dfsg-3                          all
carlos@carlos:~$ apache2 -v
Server version: Apache/2.4.58 (Ubuntu)
Server built:   2024-07-17T18:55:23
carlos@carlos:~$ php -v
PHP 8.3.6 (cli) (built: Jun 13 2024 15:23:20) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.3.6, Copyright (c) Zend Technologies
    with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies
```

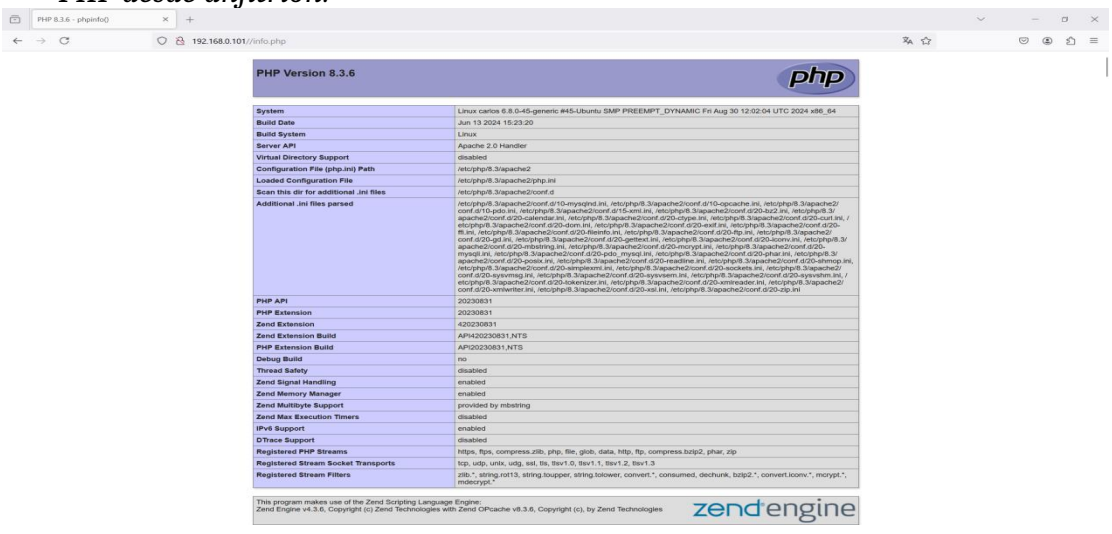
2. Configurar la conexión entre el entorno de trabajo y el servidor.

- *IP de la máquina Ubuntu Server:*

```
carlos@carlos:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:04:21:cb brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.101/24 metric 100 brd 192.168.0.255 scope global dynamic enp0s3
       valid_lft 7200sec preferred_lft 7200sec
    inet6 fe80::a00:27ff:fe04:21cb/64 scope link
       valid_lft forever preferred_lft forever
```

- *Servidor Apache desde anfitrión:*

- *PHP desde anfitrión:*

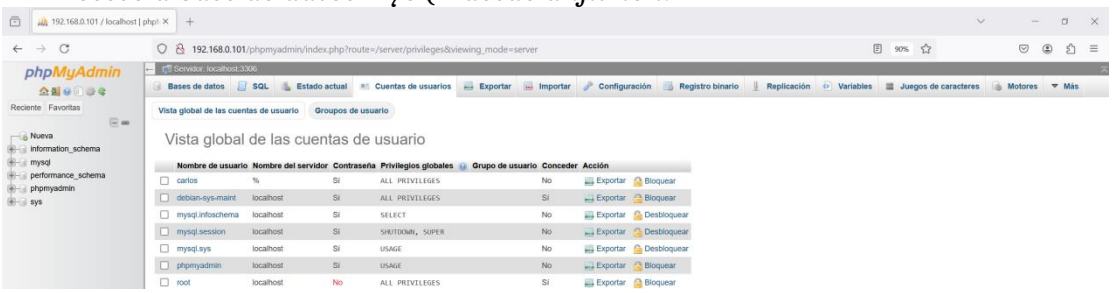


- *phpMyAdmin desde anfitrión:*

- *MySQL en Ubuntu Server:*

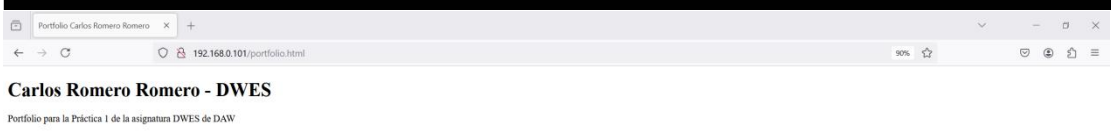
```
mysql> CREATE USER 'carlos' IDENTIFIED BY 'Usuario-1234';
Query OK, 0 rows affected (0,04 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'carlos';
Query OK, 0 rows affected (0,03 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,02 sec)

mysql> EXIT;
Bye
carlos@carlos:~$ sudo ufw allow 3306
Rules updated
Rules updated (v6)
carlos@carlos:~$ sudo ufw status
Status: inactive
```

- *Acceso a base de datos MySQL desde anfitrión:*



3. Probar la aplicación creando un porfolio personal básico.

```
  GNU nano 7.2                                    /var/www/html/portfolio.html
<!DOCTYPE html>
<html lang="es">
<head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>Portfolio Carlos Romero Romero</title>
</head>
<body>
        <h1>Carlos Romero Romero - DWES</h1>
        <p>Portfolio para la Práctica 1 de la asignatura DWES de DAW</p>
</body>
</html>
```



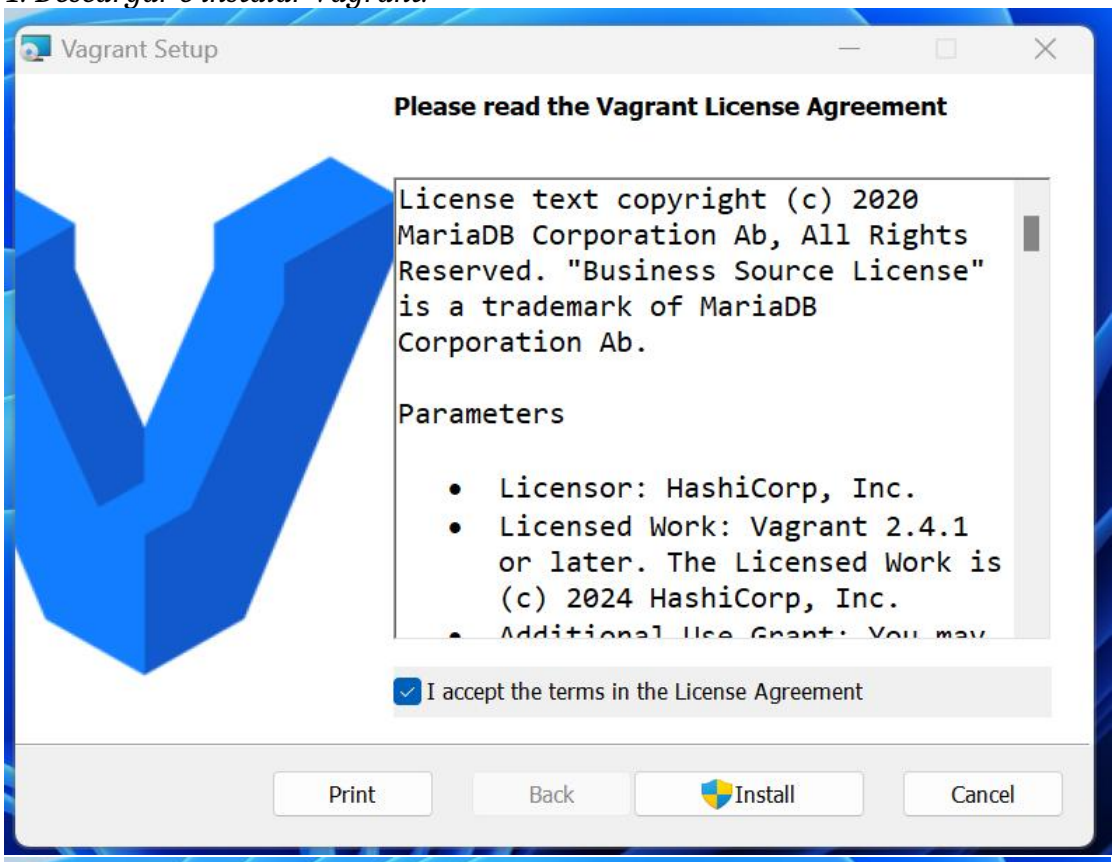
Carlos Romero Romero - DWES

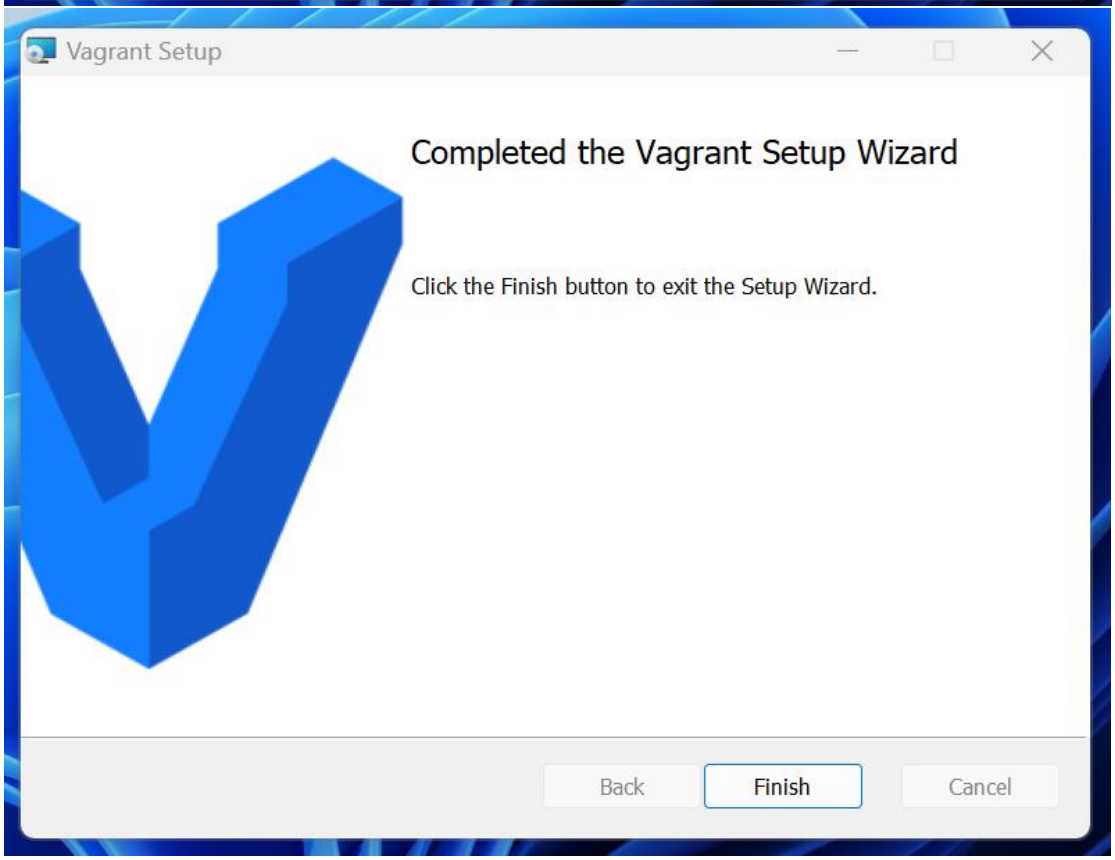
Portfolio para la Práctica 1 de la asignatura DWES de DAW

Actividad 4.

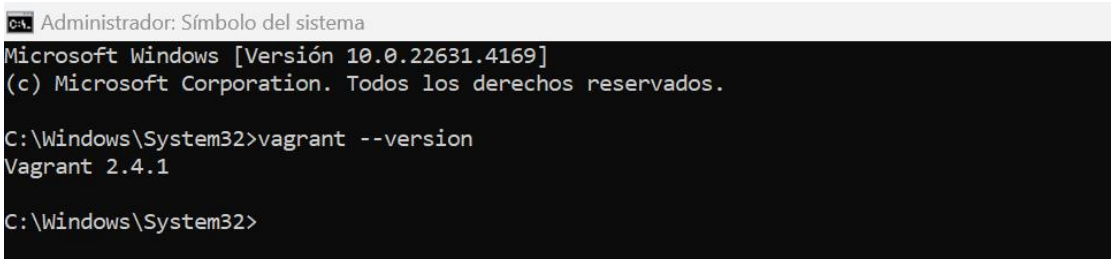
Objetivo: Crear un entorno virtual para desarrollo en el lado del servidor.

1. Descargar e instalar Vagrant.

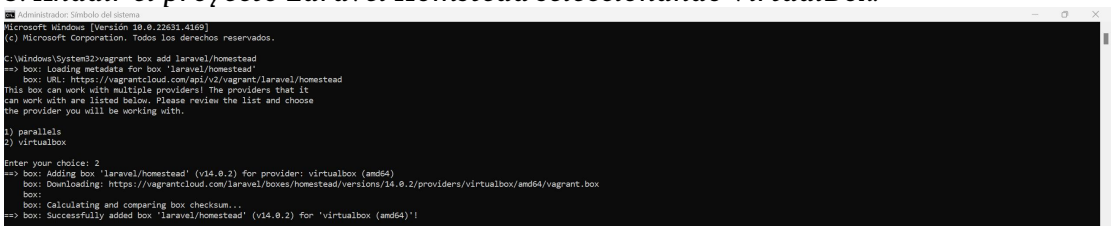




2. Comprobar que la instalación se realizó correctamente lanzando el comando que muestra la versión instalada.

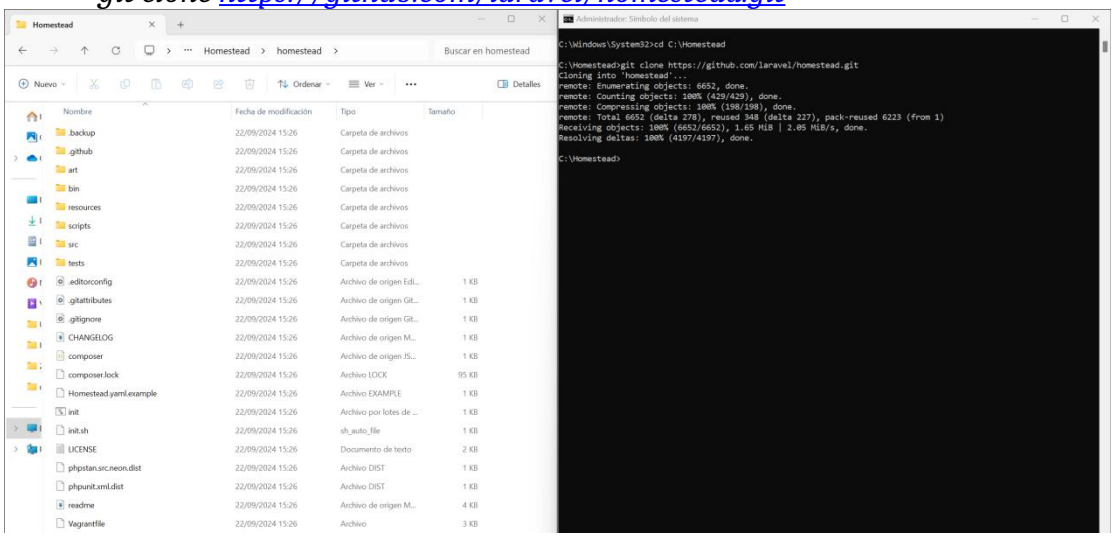


3. Añadir el proyecto Laravel Homstead seleccionando VirtualBox.



4. Clonar el proyecto de Laravel Homstead en el directorio de trabajo:

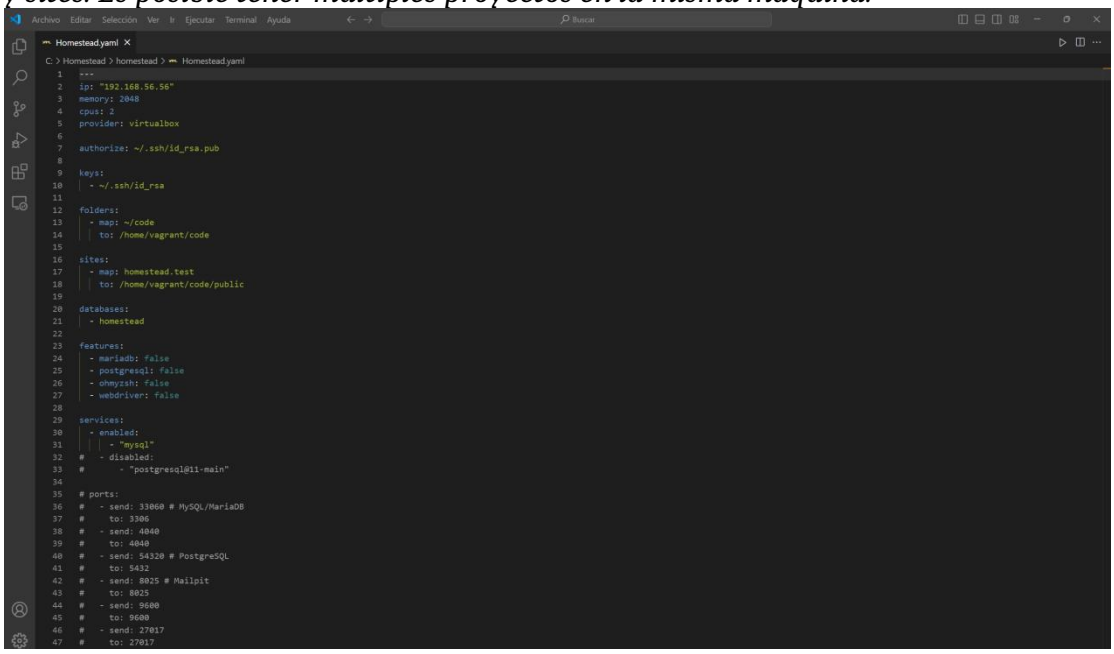
git clone https://github.com/laravel/homestead.git



5. Inicia homstead

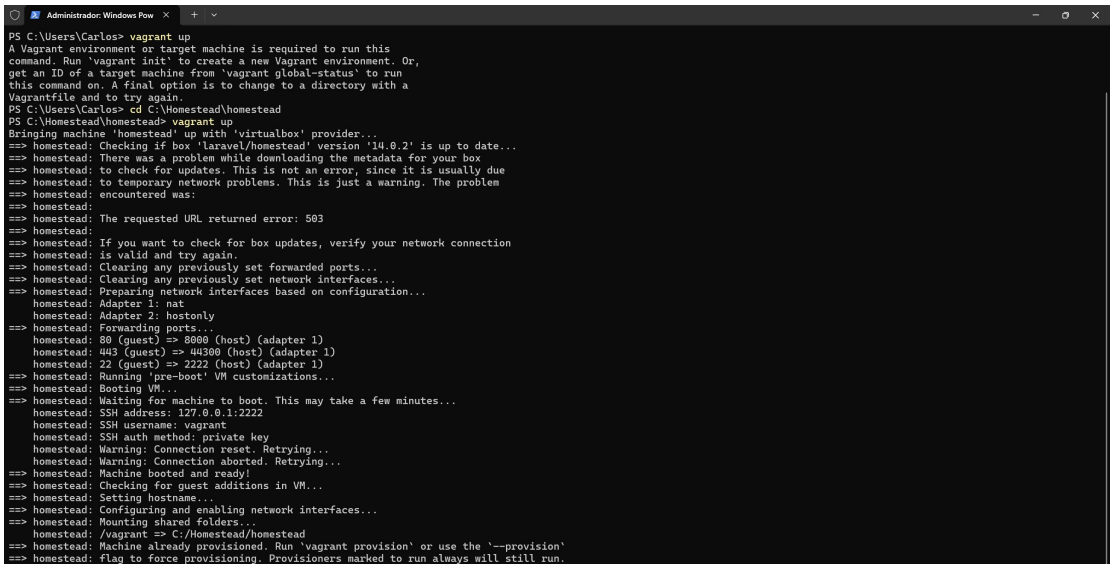
init.bat

6. Observar el archivo de configuración Homestead.yaml, especialmente en folders, y sites. Es posible tener múltiples proyectos en la misma máquina.



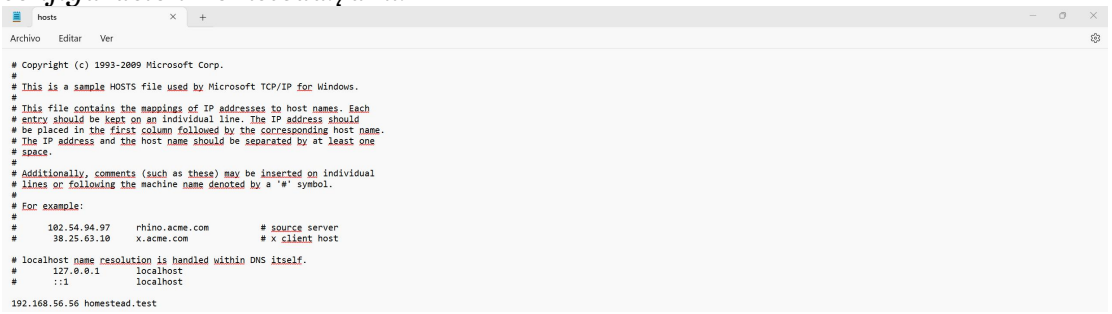
7. Lanza la máquina.

vagrant up

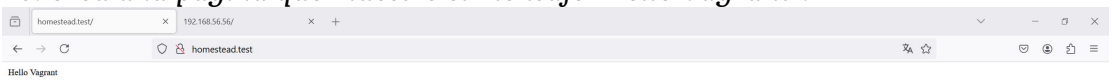


8. Prueba a conectarte a la máquina por ssh.

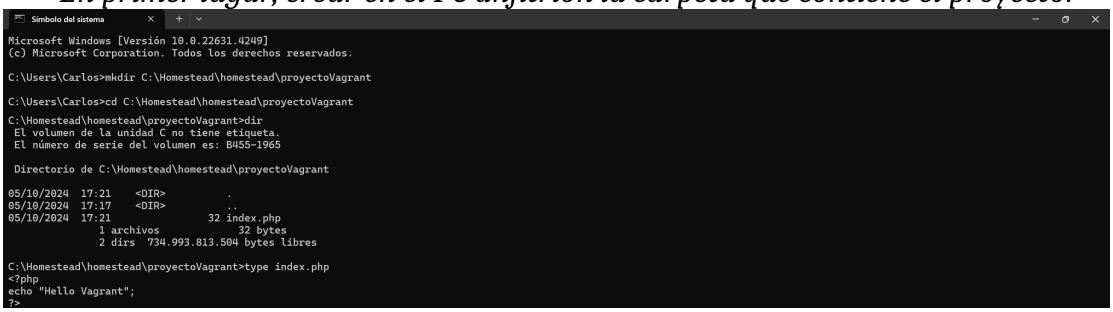
9. Modifica el fichero de hosts para asignar nombre y dirección ip del archivo de configuración Homstead.yaml.



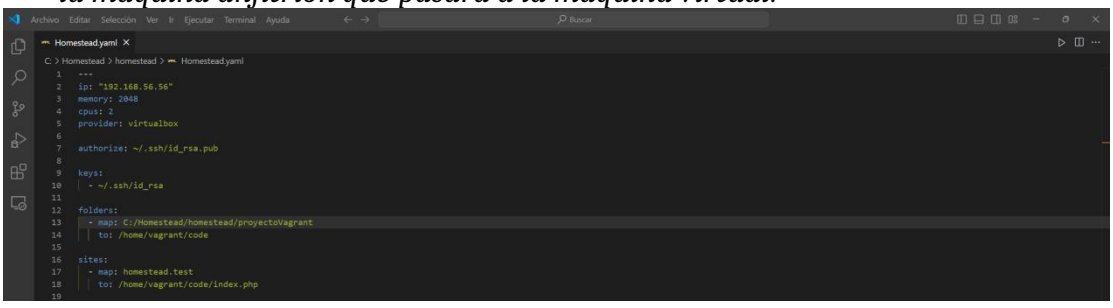
10. Crea una página que muestre el mensaje "Hello Vagrant".



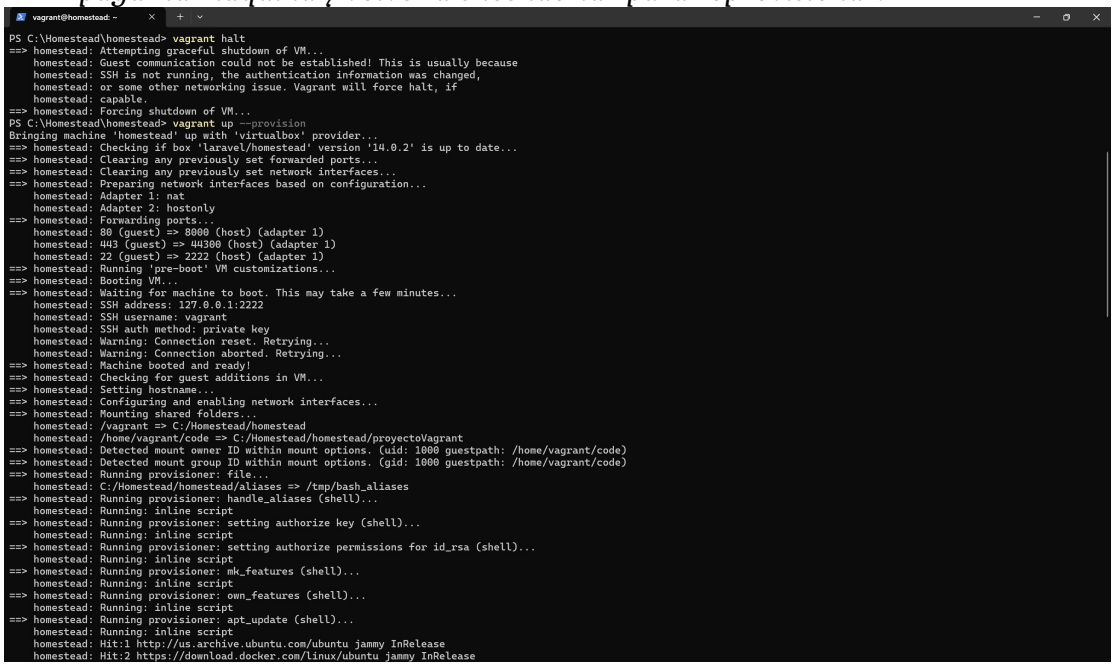
- *En primer lugar, crear en el PC anfitrión la carpeta que contiene el proyecto:*



- *Establecer en el fichero "Homestead.yaml" la ruta de la carpeta del proyecto en la máquina anfitrión que pasará a la máquina virtual:*



- *Apagar la máquina y volver a encenderlar para reprovisionar:*



- *Comprobar que los ficheros ahora están también en la máquina virtual:*