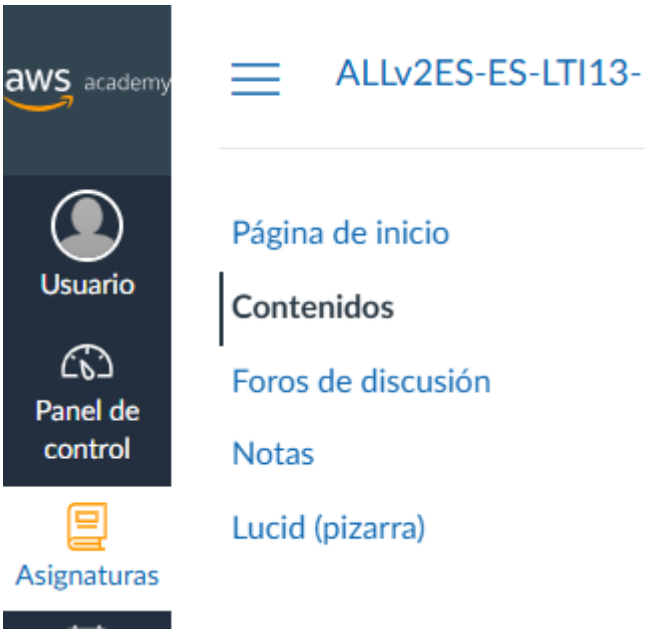
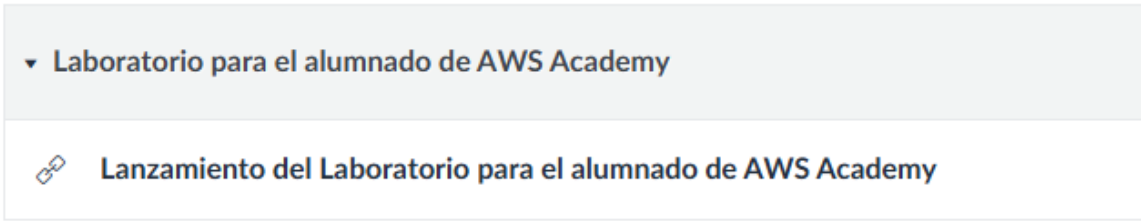
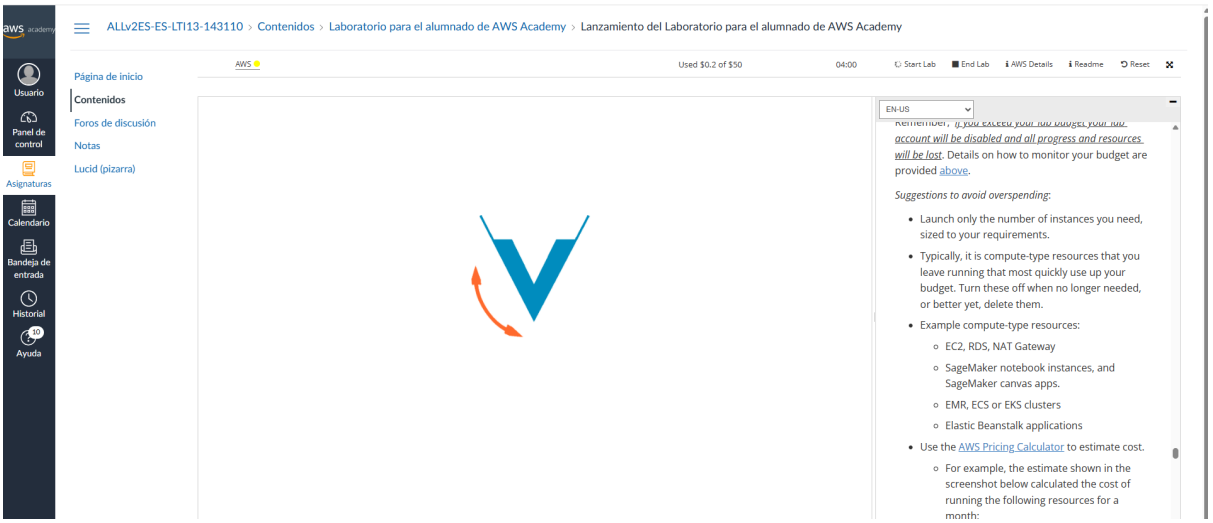
1.Inicié sesión en la consola de AWS



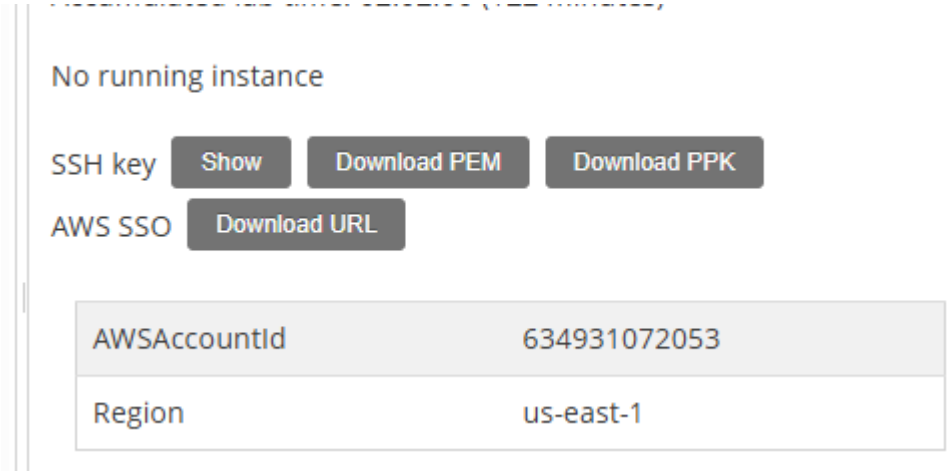
2.Entrar a ese enlace



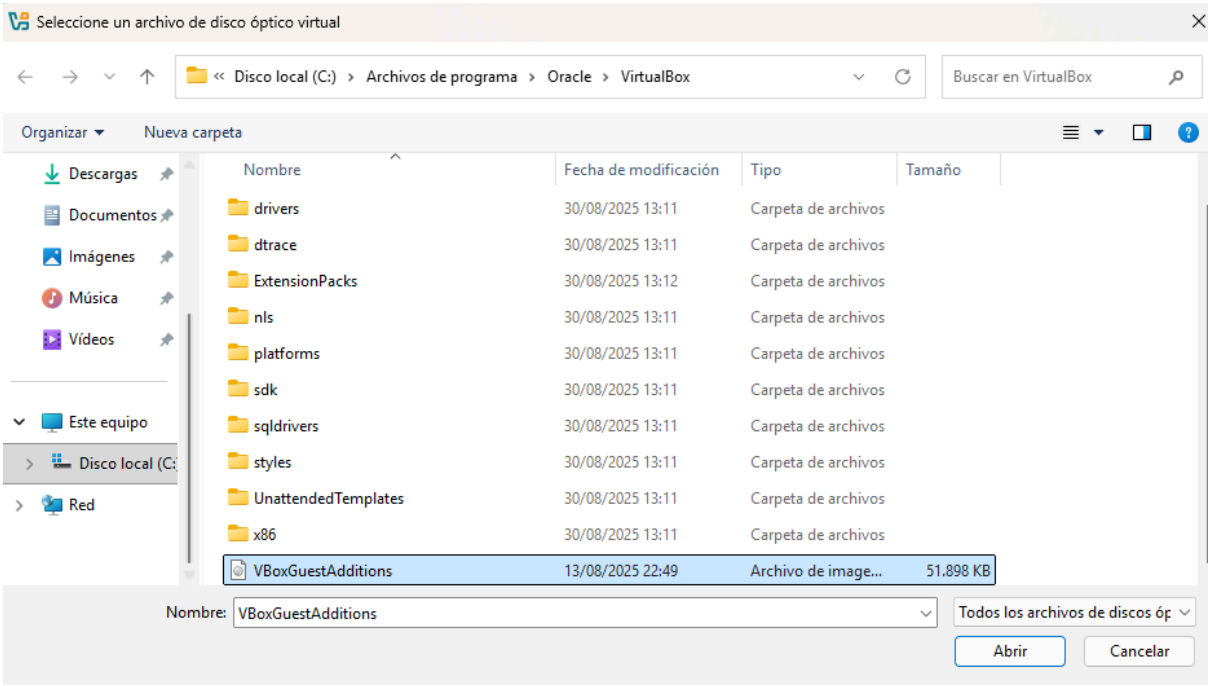
3.Darle a iniciar y esperar a que cargue



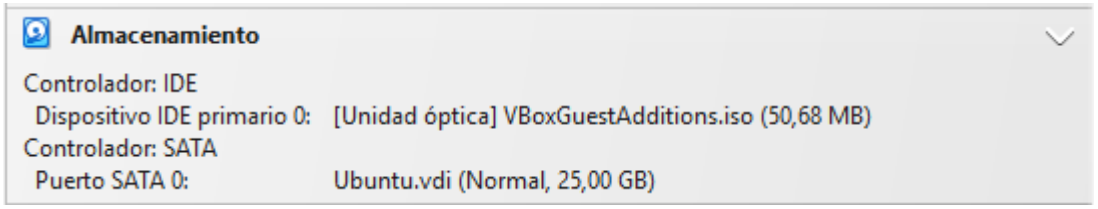
4.Descargar “Download PEM”



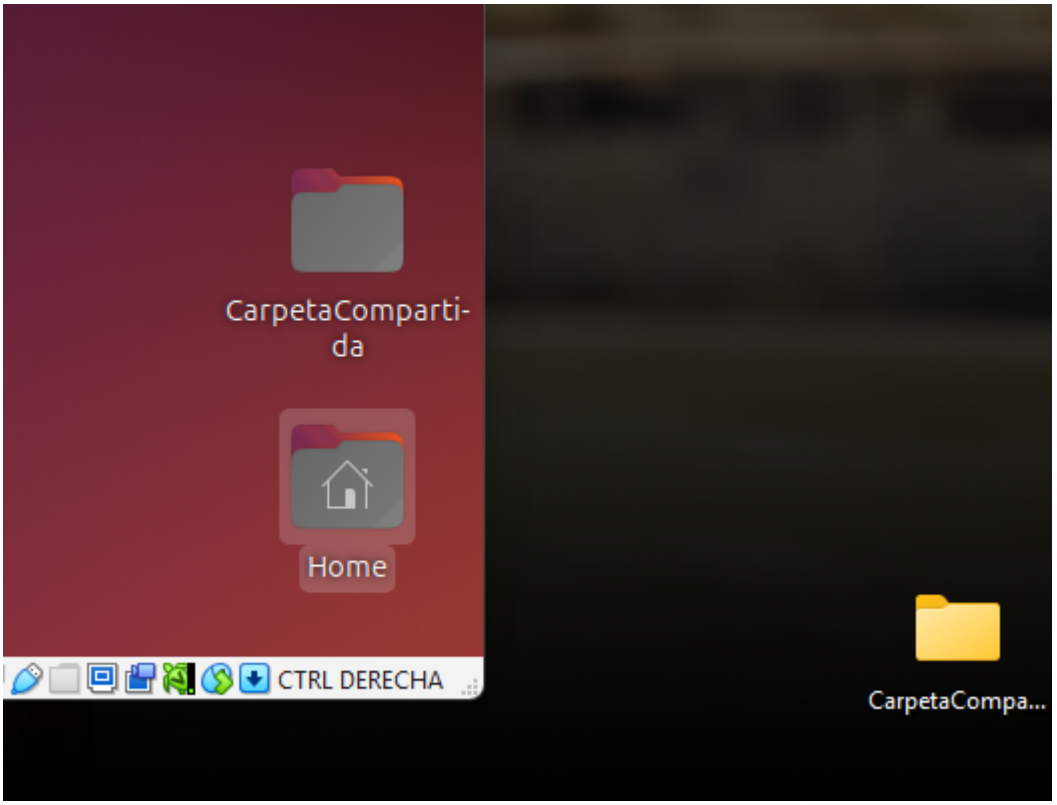
5. Ir a “Disco local” y buscar el archivo desrgado



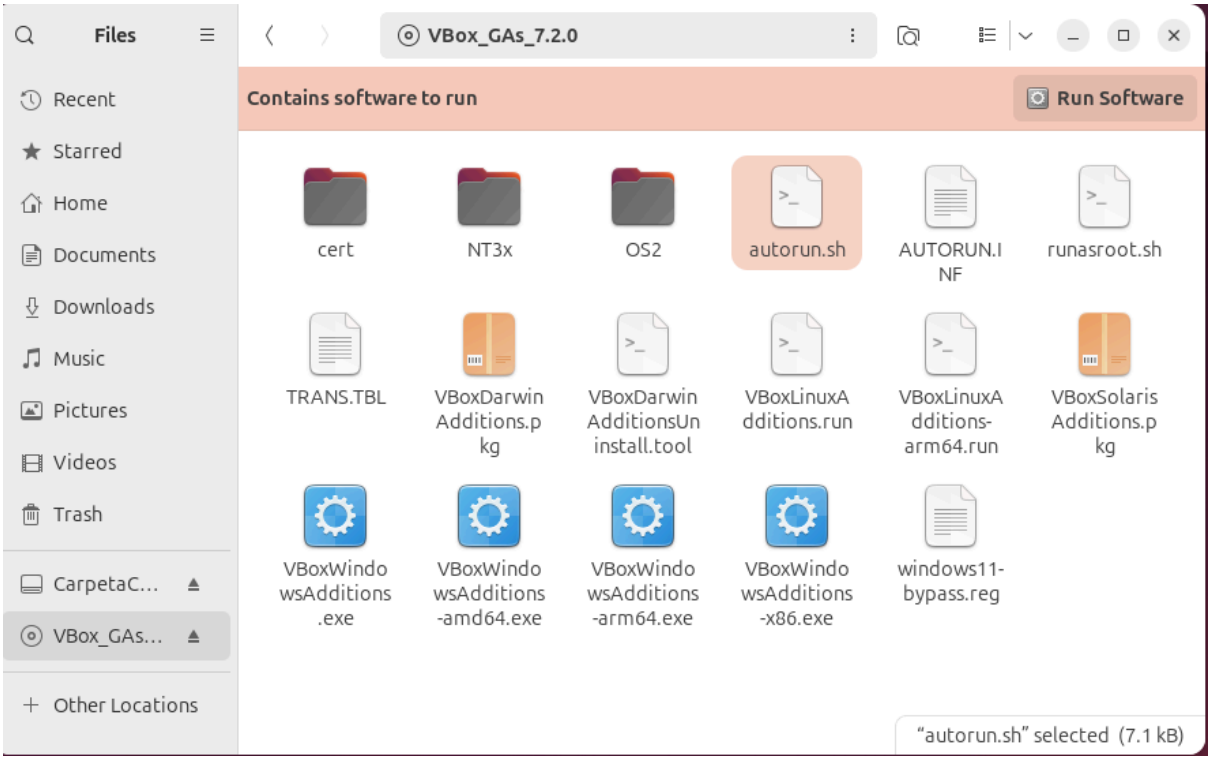
6.Añadirlo a la maquina virtual



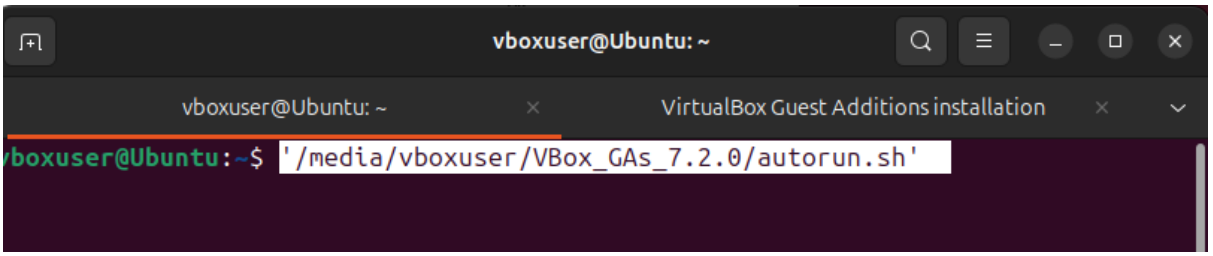
7.Crear 2 carpetas, 1 en ubuntu y otra en el escritorio



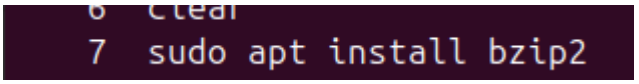
8.Entrar a ubuntu y buscar el documento “autorush.sh”



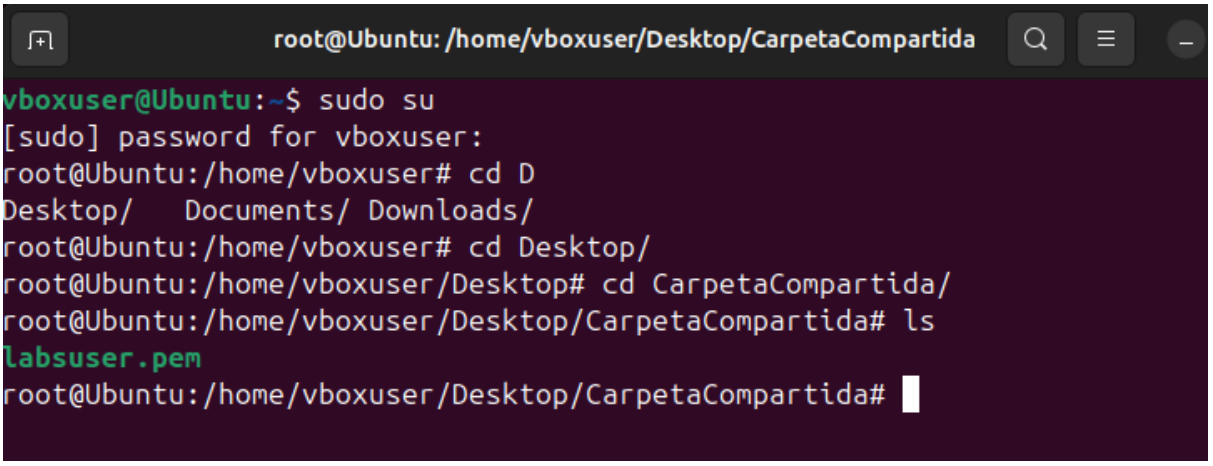
9.Copiar el enlace y ejecutarlo



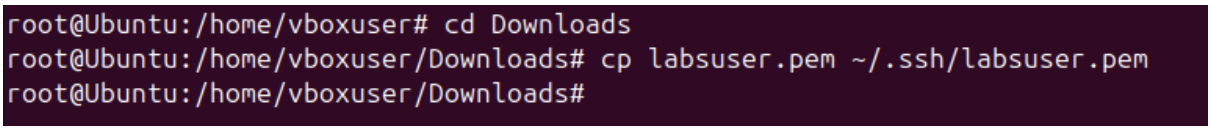
10.Installar “bzip2”



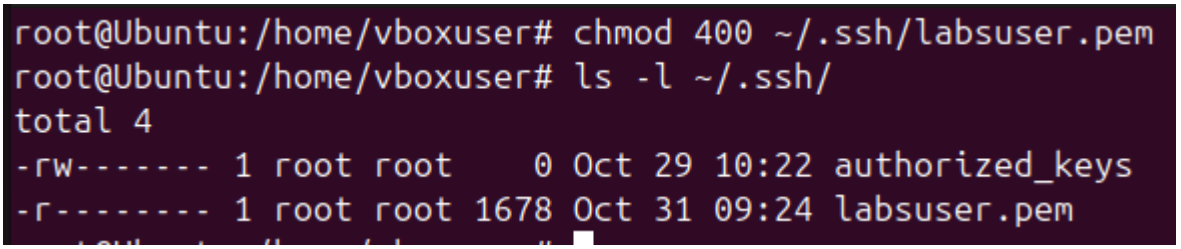
11.Meterse en la carpeta compartida



12.Buscar el documento descargado



13.Verificiacion de la descarga



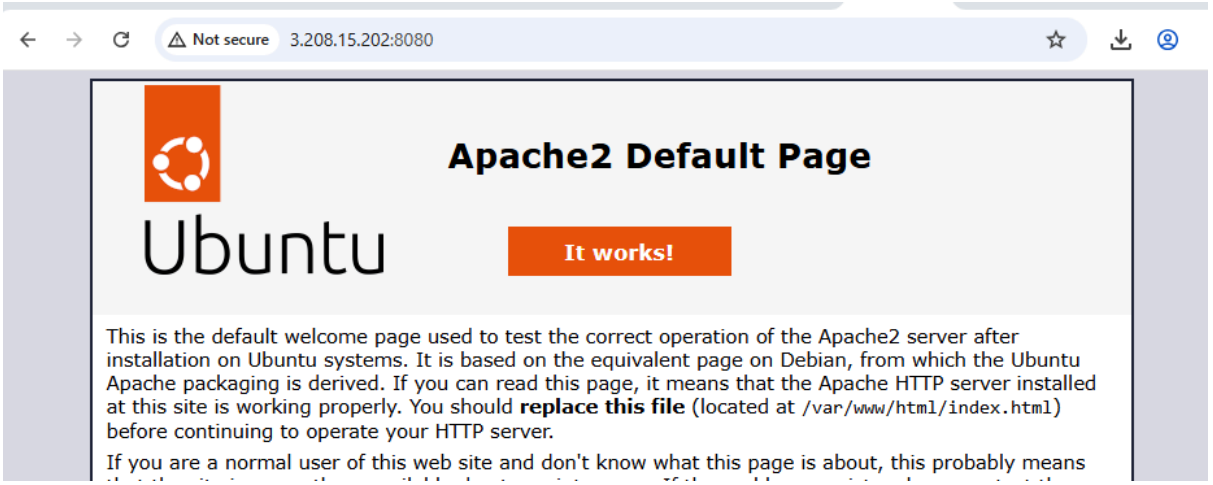
14.Ejecutar ese comando

```
root@Ubuntu:/home/vboxuser# ssh -i ~/.ssh/labsuser.pem ubuntu@3.208.15.202
The authenticity of host '3.208.15.202 (3.208.15.202)' can't be established.
ED25519 key fingerprint is SHA256:rkN1Xw5XN2pbdgJUE0AkXOPqktWHS2bzk620rMCPqDI.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '3.208.15.202' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1011-aws x86_64)
```

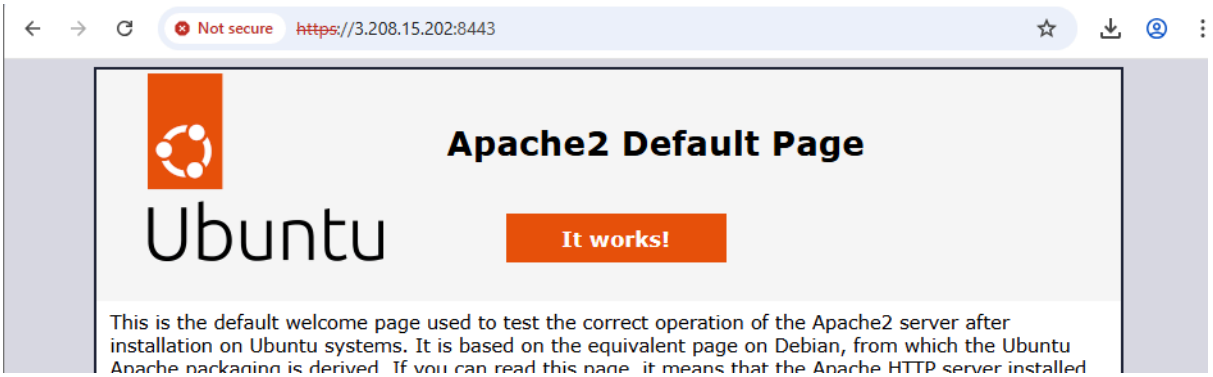
15. Tu IP

```
ubuntu@ip-172-31-17-129:~$
```

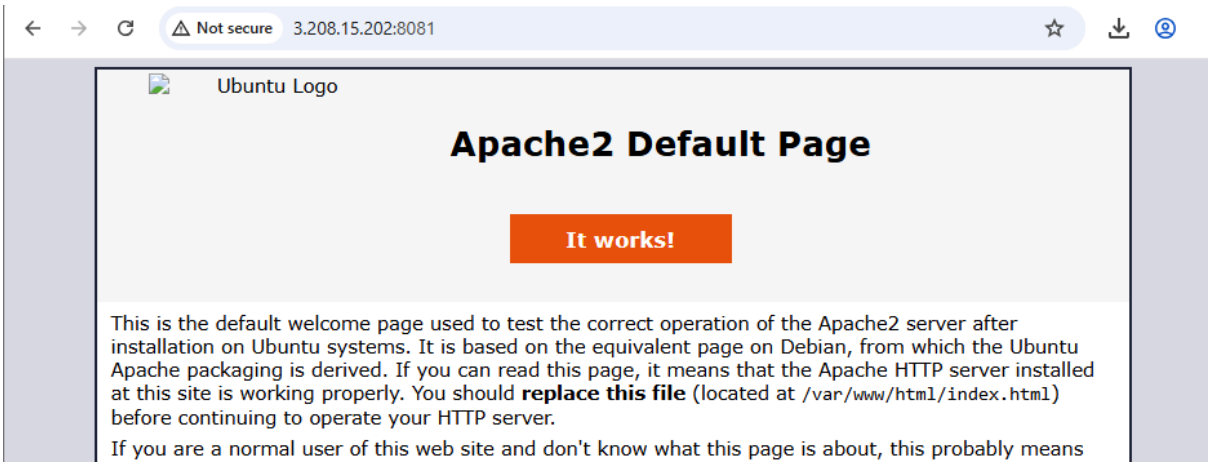
16.Verificacion del puerto



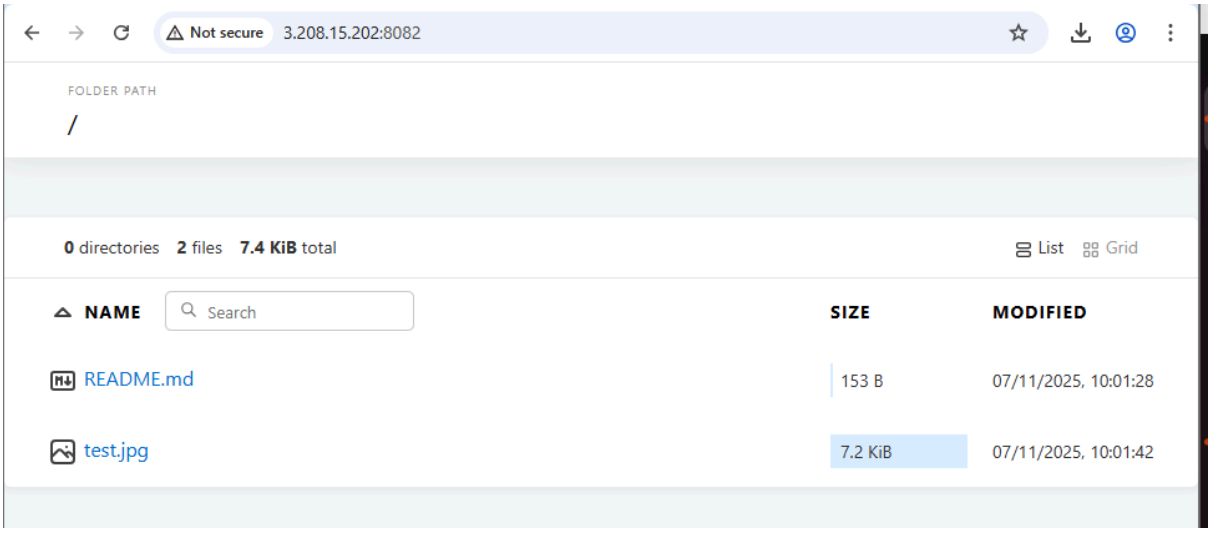
17.Verificacion del puerto



18.Verificacion del puerto



19.Verificaicon del puerto



20.Comandos realizados

```
ubuntu@ip-172-31-17-129:~$ history
    1  exit
    2  sudo apt update && sudo apt upgrade -y
    3  sudo apt install apache2 -y
    4  sudo nano /etc/apache2/ports.conf
    5  sudo nano /etc/apache2/sites-available/000-default.conf
    6  sudo apt install php libapache2-mod-php -y
    7  sudo systemctl restart apache2
    8  sudo systemctl status apache2
    9  sudo netstat -tulpn | grep apache2
   10  sudo apt install net-tools
   11  sudo netstat -tulpn | grep apache2
   12  echo "<?php phpinfo(); ?>" | sudo tee /vasr/www/html/info.php
   13  echo "<?php phpinfo();?>" | sudo tee /vasr/www/html/info.php
   14  echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php
   15  curl http://localhost:8080/info.php
   16  sudo apt install nginx -y
   17  sudo nano /etc/nginx/sites-available/default
   18  echo "<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>" | sudo te
e /usr/share/nginx/html/index.html
   19  sudo systemctl restart nginx
   20  sudo sytemctl status nginx
   21  sudo systemctl status nginx
   22  sudo netsat -tulpn | grep nginx
```

21.Comandos realizados

```
   23  sudo netstat -tulpn | grep nginx
   24  cutl http://localhost:8081
   25  curl http://localhost:8081
   26  sudo apt install -y debian-keyring debian-archive-keyring apt-transport-h
ttps curl
   27  curl -1sLf'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo p
gp --dearmor -o /usr/share/keyrings/caddy-stable-archive-keyring.gpg
   28  curl -1sLf'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo g
pg --dearmor -o /usr/share/keyrings/caddy-stable-archive-keyring.gpg
   29  sudo apt install -y debian-keyring debian-archive-keyring apt-transport-h
ttps curl
   30  curl -1sLf'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo g
pg --dearmor -o /usr/share/keyrings/caddy-stable-archive-keyring.gpg
   31  curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo
gpg --dearmor -o
   32  /usr/share/keyrings/caddy-stable-archive-keyring.gpg
   33  clear
   34  curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo
gpg --dearmor -o /usr/share/keyrings/caddy-stable-archive-keyring.gpg
   35  curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/debian.deb.txt'
| sudo tee /etc/apt/sources.list.d/caddy-stable.list
   36  sudo apt update && sudo apt install caddy -y
   37  sudo mkdir -p /var/www/caddy
   38  echo "# Bienvenido a Caddy" | sudo tee /var/www/caddy/README.md
```

22.Comandos relaizados

```
   39  echo "" | sudo tee -a /var/www/caddy/README.md
   40  echo "Este servidor está funcionando correctamente." | sudo tee -a /var/w
ww/caddy/README.md
   41  echo "" | sudo tee -a /var/www/caddy/README.md
   42  echo "## Características" | sudo tee -a /var/www/caddy/README.md
   43  echo "- Servidor moderno" | sudo tee -a /var/www/caddy/README.md
   44  echo "- HTTPS automático" | sudo tee -a /var/www/caddy/README.md
   45  echo "- Fácil configuración" | sudo tee -a /var/www/caddy/README.md
   46  curl -o /tmp/test-image.jpg "https://www.python.org/static/apple-touch-ic
on-144x144-precomposed.png"
   47  sudo mv /tmp/test-image.jpg /var/www/caddy/test.jpg
   48  sudo nano /etc/caddy/Caddyfile
   49  sudo systemctl restart caddy
   50  sudo systemctl status caddy
   51  sudo netstat -tulpn | grep caddy
   52  curl http://localhost:8082/
   53  curl http://localhost:8082/README.md
   54  sudo apt install certbot python3-certbot-apache -y
   55  sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl
/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigned.crt
   56  sudo a2enmod ssl
   57  sudo nano /etc/apache2/ports.conf
   58  sudo nano /etc/apache2/sites-available/default-ssl.conf
   59  sudo a2ensite default-ssl.conf
```

23. Comandos realizados

```
   60  sudo systemctl restart apache2
   61  curl -i -k hhtps://localhost:8443
   62  curl -i -k https://localhost:8443
   63  sudo systemctl status apache2
   64  sudo netstat -tulpn | grep apache2
   65  sudo systemctl status nginx
   66  sudo netstat -tulpn | grep nginx
   67  sudo systemctl status caddy
   68  sudo netstat -tulpn | grep caddy
   69  sudo netstat -tulpn | grep -E '8080|8081|8082|8443'
   70  curl http://localhost:8080
   71  curl http://localhost:8081
   72  curl http://localhost:8082
   73  curl -i -k http://localhost:8443
   74  history
ubuntu@ip-172-31-17-129:~$
```

24.

```
ubuntu@ip-172-31-17-129:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >
     Active: active (running) since Fri 2025-11-07 09:11:11 UTC; 11min ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 22530 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S>
   Main PID: 22534 (apache2)
```

25.

```
ubuntu@ip-172-31-17-129:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: en>
     Active: active (running) since Fri 2025-11-07 08:52:00 UTC; 31min ago
       Docs: man:nginx(8)
```

26.

```
ubuntu@ip-172-31-17-129:~$ sudo systemctl status caddy
● caddy.service - Caddy
     Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: en>
     Active: active (running) since Fri 2025-11-07 09:04:17 UTC; 19min ago
       Docs: https://caddyserver.com/docs/
   Main PID: 22018 (caddy)
```

27.

```
ubuntu@ip-172-31-17-129:~$ sudo netstat -tulpn | grep apache2
tcp6       0      0 :::8443                 :::*                    LISTEN
22534/apache2
tcp6       0      0 :::8080                 :::*                    LISTEN
22534/apache2
tcp6       0      0 :::443                  :::*                    LISTEN
22534/apache2
```

28.

```
ubuntu@ip-172-31-17-129:~$ sudo netstat -tulpn | grep nginx
tcp        0      0 0.0.0.0:8081            0.0.0.0:*               LISTEN
20992/nginx: master
tcp6       0      0 :::80                   :::*                    LISTEN
20992/nginx: master
```

29.

```
ubuntu@ip-172-31-17-129:~$ sudo netstat -tulpn | grep caddy
tcp        0      0 127.0.0.1:2019          0.0.0.0:*               LISTEN
22018/caddy
tcp6       0      0 :::8082                 :::*                    LISTEN
22018/caddy
```

30.

```
ubuntu@ip-172-31-17-129:~$ sudo netstat -tulpn | grep -E '8080|8081|8082|8443'
tcp        0      0 0.0.0.0:8081            0.0.0.0:*               LISTEN
20992/nginx: master
tcp6       0      0 :::8443                 :::*                    LISTEN
22534/apache2
tcp6       0      0 :::8082                 :::*                    LISTEN
22018/caddy
tcp6       0      0 :::8080                 :::*                    LISTEN
22534/apache2
```