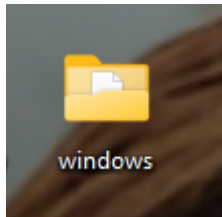
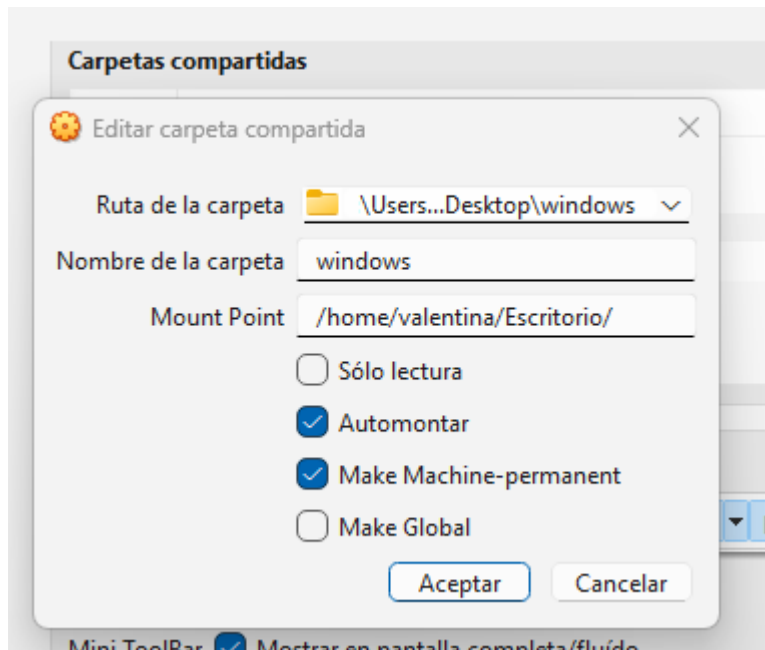


Cree una carpeta compartida



cree una igual en la maquina virtual con el mismo nombre



Instancias (1/1) Información

Buscar instancia por atributo o etiqueta (case-sensitive) Todos los ...

Estado de la instancia = running Quitar los filtros

Nombre	ID de la instancia	Estado de la instancia	Tipo de instancia	Comprobación de estado	Estado de la zona de disponibilidad	DNS de IPv4 pública	Dirección IP pública	IP elástica
i-0ce28b1c582cf5f9b (servidor-web-practica)								
Nombre	ID de la regla del grupo de seguridad	Intervalo de puertos	Protocolo	Origen	Grupos de seguridad	Descripción		
-	sgr-0a0cb94f7de019170	8081	TCP	0.0.0.0/0	launch-wizard-1	-		
-	sgr-0c0a5d5f0518d1f55	8082	TCP	0.0.0.0/0	launch-wizard-1	-		
-	sgr-0e2c2f33930d7c400	22	TCP	0.0.0.0/0	launch-wizard-1	-		
-	sgr-080ba0dbe99ce482e	8080	TCP	0.0.0.0/0	launch-wizard-1	-		
-	sgr-0de6061ea5e5e6bfa	8443	TCP	0.0.0.0/0	launch-wizard-1	-		

los puertos que cree la clase pasada en la mv de aws

```
valentina@valentina-VirtualBox:~$ ' /media/valentina/VBox_GAs_7.2.0/autorun.sh '
```

instale esto y el bzip2 tar (o como se llame) para que funcione

```

root@valentina-VirtualBox:/home/valentina# cp /home/valentina/Escritorio/labsuser.p
em ~/.ssh/labsuser.pem
root@valentina-VirtualBox:/home/valentina# mkdir -p ~/.ssh
root@valentina-VirtualBox:/home/valentina# chmod 700 ~/.ssh
root@valentina-VirtualBox:/home/valentina# chmod 400 ~/.ssh/labsuser.pem
root@valentina-VirtualBox:/home/valentina# ls -la ~/.ssh/labsuser.pem
-r----- 1 root root 1674 oct 31 08:43 /root/.ssh/labsuser.pem

```

moví la llave a una carpeta ssh le otorgue permisos a la carpeta y a la llave y me conecte a través de ssh a la mv en aws

```

ubuntu@ip-172-31-17-55: ~
root@valentina-VirtualBox:/home/valentina# ssh -i ~/.ssh/labsuser.pem ubuntu@18.232
.139.183
The authenticity of host '18.232.139.183 (18.232.139.183)' can't be established.
ED25519 key fingerprint is SHA256://N94DKBmnXDmDXPwgnlJBlo21FuxWbMipwTkZ4ssNc.
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: yes
Warning: Permanently added '18.232.139.183' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro

System information as of Fri Oct 31 07:53:28 UTC 2025

System load:  0.0           Temperature:   -273.1 C
Usage of /:   32.6% of 6.71GB Processes:      109
Memory usage: 23%          Users logged in: 0
Swap usage:   0%           IPv4 address for ens5: 172.31.17.55

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Fri Oct 24 07:06:03 2025 from 18.206.107.27

```

empecé la práctica 2 actualizando la maquina

```

ubuntu@ip-172-31-17-55:~$ sudo apt update && sudo apt upgrade -y

```

instale apache le cambie el puerto

```

ubuntu@ip-172-31-17-55:~$ sudo apt install apache2 -y

```

```

GNU nano 7.2 /etc/apache2/ports.conf *
# If you just change the port or add more ports here, you will likely also
# have to change the VirtualHost statement in
# /etc/apache2/sites-enabled/000-default.conf

Listen 8080

<IfModule ssl_module>
    Listen 443
</IfModule>

<IfModule mod_gnutls.c>
    Listen 443
</IfModule>

```

```

GNU nano 7.2 /etc/apache2/sites-available/000-default.conf *
<VirtualHost *:8080>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

```

Instale las librerías que necesita apache verifique que este activo

```

ubuntu@ip-172-31-17-55:~$ sudo apt install php libapache2-mod-php -y

```

```

ubuntu@ip-172-31-17-55:~$ sudo systemctl restart apache2
ubuntu@ip-172-31-17-55:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: ena>
   Active: active (running) since Fri 2025-10-31 08:00:37 UTC; 19s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 13292 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCC>
  Main PID: 13295 (apache2)
    Tasks: 6 (limit: 1017)
   Memory: 10.5M (peak: 10.8M)
      CPU: 51ms
   CGroup: /system.slice/apache2.service
           └─13295 /usr/sbin/apache2 -k start
             └─13297 /usr/sbin/apache2 -k start
               └─13298 /usr/sbin/apache2 -k start
                 └─13299 /usr/sbin/apache2 -k start
                   └─13300 /usr/sbin/apache2 -k start
                     └─13301 /usr/sbin/apache2 -k start

Oct 31 08:00:37 ip-172-31-17-55 systemd[1]: Starting apache2.service - The Apache >
Oct 31 08:00:37 ip-172-31-17-55 systemd[1]: Started apache2.service - The Apache H>
lines 1-19/19 (END)

```

instale las net-tools para poder usar algunos comandos que necesitaba

```

ubuntu@ip-172-31-17-55:~$ sudo apt install net-tools

```

verifique que si usa el puerto que le di

```
ubuntu@ip-172-31-17-55:~$ sudo netstat -tulpn | grep -E 8080
tcp6      0      0 :::8080          :::*              LISTEN      132
95/apache2
ubuntu@ip-172-31-17-55:~$ echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php
<?php phpinfo(); ?>
```

verifique que la pagina funcione tanto en terminal como en mi maquina de windows

```
ubuntu@ip-172-31-17-55:~$ curl http://localhost:8080/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace;}
a:link {color: #009; text-decoration: none; background-color: #fff;}
</style>
</head>
<body>
<pre>
PHP Version 8.3.6

System
Linux ip-172-31-17-55 6.14.0-1015-aws #15~24.04.1-Ubuntu SMP Tue Sep 23 22:44:48 UTC 2025 x86_64
Build Date
Jul 14 2025 18:30:55
Build System
Linux
Server API
Apache 2.0 Handler
Virtual Directory Support
disabled
Configuration File (php.ini) Path
/etc/php/8.3/apache2
Loaded Configuration File
/etc/php/8.3/apache2/php.ini
Scan this dir for additional .ini files
/etc/php/8.3/apache2/conf.d
Additional .ini files parsed
/etc/php/8.3/apache2/conf.d/10-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.ini, /etc/php/8.3/apache2/conf.d/20-calendar.ini, /etc/php/8.3/apache2/conf.d/20-ctype.ini, /etc/php/8.3/apache2/conf.d/20-exif.ini, /etc/php/8.3/apache2/conf.d/20-ffi.ini, /etc/php/8.3/apache2/conf.d/20-fileinfo.ini, /etc/php/8.3/apache2/conf.d/20-ftp.ini, /etc/php/8.3/apache2/conf.d/20-gd.ini, /etc/php/8.3/apache2/conf.d/20-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.ini, /etc/php/8.3/apache2/conf.d/20-imagick.ini, /etc/php/8.3/apache2/conf.d/20-ldap.ini, /etc/php/8.3/apache2/conf.d/20-ldap_sasl.ini, /etc/php/8.3/apache2/conf.d/20-mbstring.ini, /etc/php/8.3/apache2/conf.d/20-mcrypt.ini, /etc/php/8.3/apache2/conf.d/20-mysqlnd.ini, /etc/php/8.3/apache2/conf.d/20-openssl.ini, /etc/php/8.3/apache2/conf.d/20-pdo_mysql.ini, /etc/php/8.3/apache2/conf.d/20-phar.ini, /etc/php/8.3/apache2/conf.d/20-posix.ini, /etc/php/8.3/apache2/conf.d/20-readline.ini, /etc/php/8.3/apache2/conf.d/20-shmop.ini, /etc/php/8.3/apache2/conf.d/20-sockets.ini, /etc/php/8.3/apache2/conf.d/20-sysvmsg.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.ini, /etc/php/8.3/apache2/conf.d/20-sysvshm.ini, /etc/php/8.3/apache2/conf.d/20-tokenizer.ini

PHP API
20230831
PHP Extension
20230831
Zend Extension
420230831
Zend Extension Build
API420230831,NTS
PHP Extension Build
API20230831,NTS
Debug Build
no
Thread Safety
disabled
Zend Signal Handling
enabled
Zend Memory Manager
enabled
Zend Multibyte Support
disabled
Zend Max Execution Timers
disabled
IPv6 Support
enabled
DTrace Support
disabled
Registered PHP Streams
https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports
tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters
zlib.*, string.rot13, string.toupper, string.tolower, convert.*, consumed, dechunk, convert.iconv.*


This program makes use of the Zend Scripting Language Engine:
Zend Engine v4.3.6, Copyright (c) Zend Technologies with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies
</pre>
</body>
</html>
```

Documentos sin título - Docume x PHP 8.3.6 - phpinfo()

No es seguro 18.232.139.183:8080/info.php


Todos los marcadores

PHP Version 8.3.6



System	Linux ip-172-31-17-55 6.14.0-1015-aws #15~24.04.1-Ubuntu SMP Tue Sep 23 22:44:48 UTC 2025 x86_64
Build Date	Jul 14 2025 18:30:55
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.3/apache2
Loaded Configuration File	/etc/php/8.3/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/8.3/apache2/conf.d
Additional .ini files parsed	/etc/php/8.3/apache2/conf.d/10-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.ini, /etc/php/8.3/apache2/conf.d/20-calendar.ini, /etc/php/8.3/apache2/conf.d/20-ctype.ini, /etc/php/8.3/apache2/conf.d/20-exif.ini, /etc/php/8.3/apache2/conf.d/20-ffi.ini, /etc/php/8.3/apache2/conf.d/20-fileinfo.ini, /etc/php/8.3/apache2/conf.d/20-ftp.ini, /etc/php/8.3/apache2/conf.d/20-gd.ini, /etc/php/8.3/apache2/conf.d/20-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.ini, /etc/php/8.3/apache2/conf.d/20-imagick.ini, /etc/php/8.3/apache2/conf.d/20-ldap.ini, /etc/php/8.3/apache2/conf.d/20-ldap_sasl.ini, /etc/php/8.3/apache2/conf.d/20-mbstring.ini, /etc/php/8.3/apache2/conf.d/20-mcrypt.ini, /etc/php/8.3/apache2/conf.d/20-mysqlnd.ini, /etc/php/8.3/apache2/conf.d/20-openssl.ini, /etc/php/8.3/apache2/conf.d/20-pdo_mysql.ini, /etc/php/8.3/apache2/conf.d/20-phar.ini, /etc/php/8.3/apache2/conf.d/20-posix.ini, /etc/php/8.3/apache2/conf.d/20-readline.ini, /etc/php/8.3/apache2/conf.d/20-shmop.ini, /etc/php/8.3/apache2/conf.d/20-sockets.ini, /etc/php/8.3/apache2/conf.d/20-sysvmsg.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.ini, /etc/php/8.3/apache2/conf.d/20-sysvshm.ini, /etc/php/8.3/apache2/conf.d/20-tokenizer.ini
PHP API	20230831
PHP Extension	20230831
Zend Extension	420230831
Zend Extension Build	API420230831,NTS
PHP Extension Build	API20230831,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
Zend Max Execution Timers	disabled
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	zlib.*, string.rot13, string.toupper, string.tolower, convert.*, consumed, dechunk, convert.iconv.*

This program makes use of the Zend Scripting Language Engine:
Zend Engine v4.3.6, Copyright (c) Zend Technologies with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies



Instale nginx, modifique el puerto que usa

```
ubuntu@ip-172-31-17-55:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
```

```
GNU nano 7.2 /etc/nginx/sites-available/default *
##
# You should look at the following URL's in order to grasp a solid understanding
# of Nginx configuration files in order to fully unleash the power of Nginx.
# https://www.nginx.com/resources/wiki/start/
# https://www.nginx.com/resources/wiki/start/topics/tutorials/config_pitfalls/
# https://wiki.debian.org/Nginx/DirectoryStructure
#
# In most cases, administrators will remove this file from sites-enabled/ and
# leave it as reference inside of sites-available where it will continue to be
# updated by the nginx packaging team.
#
# This file will automatically load configuration files provided by other
# applications, such as Drupal or Wordpress. These applications will be made
# available underneath a path with that package name, such as /drupal8.
#
# Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
##

# Default server configuration
#
server {
    listen 8081 default_server;
    listen [::]:8081 default_server;
```

active el servidor nginx verifique sus puertos

```
ubuntu@ip-172-31-17-55:~$ sudo nano /etc/nginx/sites-available/default
ubuntu@ip-172-31-17-55:~$ echo "<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>" | sudo tee /usr/share/nginx/html/index.html
<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>
ubuntu@ip-172-31-17-55:~$ sudo systemctl restart nginx
ubuntu@ip-172-31-17-55:~$ 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: enabled)
   Active: active (running) since Fri 2025-10-31 08:12:43 UTC; 18s ago
     Docs: man:nginx(8)
  Process: 13831 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on;
  Process: 13833 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=0)
```

```
ubuntu@ip-172-31-17-55:~$ sudo netstat -tulpn | grep -E 8081
tcp        0      0 0.0.0.0:8081        0.0.0.0:*          LISTEN     138
34/nginx: master
tcp6       0      0 :::8081            :::*                LISTEN     138
34/nginx: master
ubuntu@ip-172-31-17-55:~$ curl http://localhost:8081
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the Debian original for Ubuntu
    Last updated: 2022-03-22
    See: https://launchpad.net/bugs/1966004
  -->
```

como la primera ruta estaba mal la acomode para que aparezca lo que tiene que decir y comprobé la coneccion tanto en terminal como en mi maquina

```
ubuntu@ip-172-31-17-55:~$ echo "<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>" | sudo tee /var/www/html/index.html
<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>
ubuntu@ip-172-31-17-55:~$ curl http://localhost:8081
<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>
```



Instale las dependencias necesarias para Caddy

```
ubuntu@ip-172-31-17-55:~$ sudo apt install -y debian-keyring debian-archive-keyring
apt-transport-https curl
Reading package lists... Done
Building dependency tree... Done
```

```
ubuntu@ip-172-31-17-55:~$ curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo gpg --dearmor -o /usr/share/keyrings/caddy-stable-archive-keyring.gpg
ubuntu@ip-172-31-17-55:~$ curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/debian.deb.txt' | sudo tee /etc/apt/sources.list.d/caddy-stable.list
# Source: Caddy
# Site: https://github.com/caddyserver/caddy
# Repository: Caddy / stable
# Description: Fast, multi-platform web server with automatic HTTPS

deb [signed-by=/usr/share/keyrings/caddy-stable-archive-keyring.gpg] https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-version main

deb-src [signed-by=/usr/share/keyrings/caddy-stable-archive-keyring.gpg] https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-version main
```

Instalo Caddy

```
ubuntu@ip-172-31-17-55:~$ sudo apt update && sudo apt install caddy -y
```



```

ubuntu@ip-172-31-17-55:~$ sudo mkdir -p /var/www/caddy
ubuntu@ip-172-31-17-55:~$ echo "# Bienvenido a Caddy" | sudo tee /var/www/caddy/README.md
# Bienvenido a Caddy
ubuntu@ip-172-31-17-55:~$ echo "" | sudo tee -a /var/www/caddy/README.md

ubuntu@ip-172-31-17-55:~$ echo "Este servidor está funcionando correctamente." | sudo tee -a /var/www/caddy/README.md
Este servidor está funcionando correctamente.
ubuntu@ip-172-31-17-55:~$ echo "" | sudo tee -a /var/www/caddy/README.md

ubuntu@ip-172-31-17-55:~$ echo "## Características" | sudo tee -a /var/www/caddy/README.md
## Características
ubuntu@ip-172-31-17-55:~$ echo "- Servidor moderno" | sudo tee -a /var/www/caddy/README.md
- Servidor moderno
ubuntu@ip-172-31-17-55:~$ echo "- HTTPS automático" | sudo tee -a /var/www/caddy/README.md
- HTTPS automático
ubuntu@ip-172-31-17-55:~$ echo "- Fácil configuración" | sudo tee -a /var/www/caddy/README.md
- Fácil configuración

ubuntu@ip-172-31-17-55:~$ curl -o /tmp/test-image.jpg "https://www.python.org/static/apple-touch-icon-144x144-precomposed.png"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload  Total   Spent    Left  Speed
100  7382  100  7382    0     0  184k      0  --:--:-- --:--:-- --:--:--  184k
ubuntu@ip-172-31-17-55:~$ sudo mv /tmp/test-image.jpg /var/www/caddy/test.jpg

```

modifico los puertos que usa

```

GNU nano 7.2 /etc/caddy/Caddyfile *
# The Caddyfile is an easy way to configure your Caddy web server.
#
# Unless the file starts with a global options block, the first
# uncommented line is always the address of your site.
#
# To use your own domain name (with automatic HTTPS), first make
# sure your domain's A/AAAA DNS records are properly pointed to
# this machine's public IP, then replace ":80" below with your
# domain name.

:8082 {
    # Set this path to your site's directory.
    root * /var/www/caddy

    # Enable the static file server.
    file_server browse

    # Another common task is to set up a reverse proxy:
    # reverse_proxy localhost:8080
    @markdown path *.md

    # Or serve a PHP site through php-fpm:
    # php_fastcgi localhost:9000
    header @markdown Content-Type text/plain
}

```

Inicio el servidor, verifique que esta activo, verifique los puertos que esta usando

```
ubuntu@ip-172-31-17-55:~$ sudo systemctl restart caddy
ubuntu@ip-172-31-17-55:~$ sudo systemctl status caddy
● caddy.service - Caddy
   Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-31 08:28:09 UTC; 15s ago
     Docs: https://caddyserver.com/docs/
  Main PID: 14731 (caddy)
    Tasks: 7 (limit: 1017)
   Memory: 10.9M (peak: 11.1M)
      CPU: 73ms
   CGroup: /system.slice/caddy.service
           └─14731 /usr/bin/caddy run --environ --config /etc/caddy/Caddyfile

ubuntu@ip-172-31-17-55:~$ sudo netstat -tulpn | grep -E 8082
tcp6          0      0 :::8082          :::*              LISTEN        14731/caddy
```

Verifique la coneccion

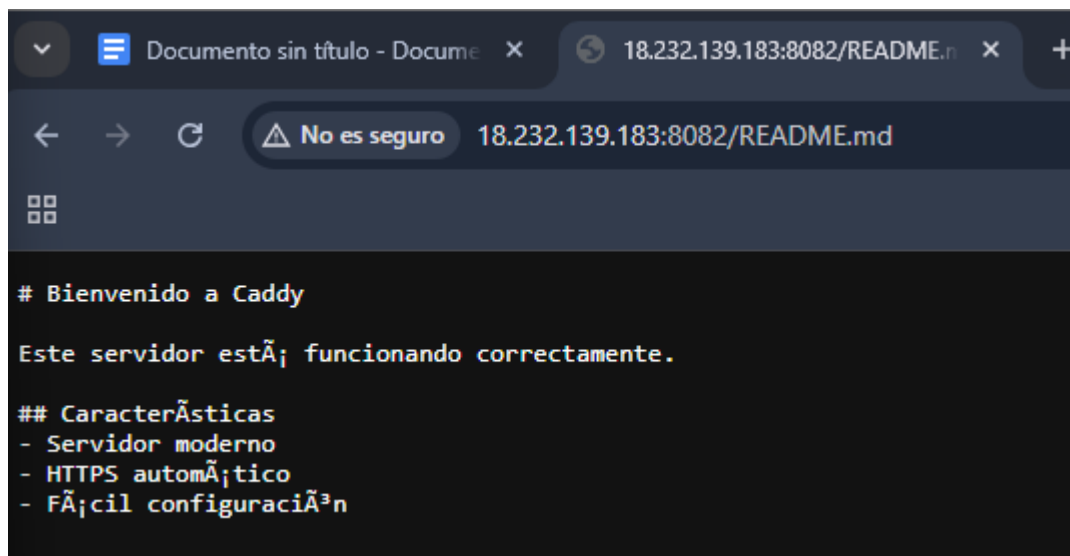
```
ubuntu@ip-172-31-17-55:~$ curl http://localhost:8082/  
  
<!DOCTYPE html>  
<html>  
  <head>  
    <title>/</title>  
    <link rel="canonical" href="/" />  
    <meta charset="utf-8">  
    <meta name="color-scheme" content="light dark">  
    <meta name="viewport" content="width=device-width, initial-scale=1.  
0">
```

```
ubuntu@ip-172-31-17-55:~$ curl http://localhost:8082/README.md  
# Bienvenido a Caddy
```

Este servidor está funcionando correctamente.

Características

- Servidor moderno
- HTTPS automático
- Fácil configuración



```
ubuntu@ip-172-31-17-55:~$ sudo apt install certbot python3-certbot-apache -y
```

```
ubuntu@ip-172-31-17-55:~$ sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048  
-keyout /etc/ssl/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigne  
d.crt
```

..+...+.+.....+.+....+.+...+.++++++
+++++++*.....+.+...+.+...+.+.....+.+.....+.+..
.....+.+.....+.+...+.+...+.+...+.+...+.+.....+.+.....
..+.+...+.+.....+.+...+.+.....+.++++++
+++++++*.....+.+.....+.+.....+.+...+.+...+.+..
..+.....+.+...+.+.....+.+...+.+.....+.+.....+.+.....+.+..
+.+.....+.+...+.+.....+.+...+.+...+.+...+.+...+.+...+.+..
.....+.+...+.+.....+.+...+.+.....+.+.....+.+...+.+...+.+

You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

```
-----  
Country Name (2 letter code) [AU]:ES  
State or Province Name (full name) [Some-State]:Madrid  
Locality Name (eg, city) []:Madrid  
Organization Name (eg, company) [Internet Widgits Pty Ltd]:  
Organizational Unit Name (eg, section) []:  
Common Name (e.g. server FQDN or YOUR name) []:localhost  
Email Address []:valensiulay@gmail.com
```

Habilito el modulo SSL

```
ubuntu@ip-172-31-17-55:~$ sudo a2enmod ssl  
Considering dependency mime for ssl:  
Module mime already enabled  
Considering dependency socache_shmcb for ssl:  
Enabling module socache_shmcb.  
Enabling module ssl.  
See /usr/share/doc/apache2/README.Debian.gz on how to configure SSL and create self  
-signed certificates.  
To activate the new configuration, you need to run:  
systemctl restart apache2
```

Cambio los puertos

```
ubuntu@ip-172-31-17-55: ~  
GNU nano 7.2 /etc/apache2/ports.conf *  
# If you just change the port or add more ports here, you will likely also  
# have to change the VirtualHost statement in  
# /etc/apache2/sites-enabled/000-default.conf  
  
Listen 8080  
Listen 8443  
  
<IfModule ssl_module>  
    Listen 443  
</IfModule>  
  
<IfModule mod_gnutls.c>  
    Listen 443  
</IfModule>  
  
GNU nano 7.2 /etc/apache2/sites-available/default-ssl.conf *  
<VirtualHost *:8443>  
    ServerAdmin webmaster@localhost
```

Activo la configuración SSL en apache, activo el servidor, veo que esta activo y verifico la conexión

```
ubuntu@ip-172-31-17-55:~$ sudo a2ensite default-ssl.conf
Enabling site default-ssl.
To activate the new configuration, you need to run:
    systemctl reload apache2
ubuntu@ip-172-31-17-55:~$ sudo systemctl restart apache2
ubuntu@ip-172-31-17-55:~$ curl -i -k https://localhost:8443
HTTP/1.1 200 OK
Date: Fri, 31 Oct 2025 08:47:46 GMT
Server: Apache/2.4.58 (Ubuntu)
Last-Modified: Fri, 31 Oct 2025 08:16:21 GMT
ETag: "39-6426ffb11443b"
Accept-Ranges: bytes
Content-Length: 57
Content-Type: text/html

<h1>Servidor Nginx</h1><p>Funcionando en puerto 8081</p>
```



Aca se pueden ver los servidores activos y los puertos que estan utilizando.

```
ubuntu@ip-172-31-17-55:~$ sudo systemctl status apache2 nginx caddy
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabl
   Active: active (running) since Fri 2025-10-31 08:47:27 UTC; 2min 58s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Centro de aplicaciones ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCC>
   Main PID: 15213 (apache2)
     Tasks: 7 (limit: 1017)
    Memory: 13.3M (peak: 13.8M)
       CPU: 93ms
    CGroup: /system.slice/apache2.service
           └─15213 /usr/sbin/apache2 -k start
             └─15215 /usr/sbin/apache2 -k start
               └─15216 /usr/sbin/apache2 -k start
                 └─15217 /usr/sbin/apache2 -k start
                   └─15218 /usr/sbin/apache2 -k start
                     └─15219 /usr/sbin/apache2 -k start
                       └─15221 /usr/sbin/apache2 -k start
```

```
Oct 31 08:47:27 ip-172-31-17-55 systemd[1]: Starting apache2.service - The Apache H>
Oct 31 08:47:27 ip-172-31-17-55 systemd[1]: Started apache2.service - The Apache H>
```

```
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabl
   Active: active (running) since Fri 2025-10-31 08:12:43 UTC; 37min ago
     Docs: man:nginx\(8\)
   Main PID: 13834 (nginx)
     Tasks: 3 (limit: 1017)
    Memory: 2.4M (peak: 2.7M)
       CPU: 22ms
    CGroup: /system.slice/nginx.service
           └─13834 "nginx: master process /usr/sbin/nginx -g daemon on; master_p>
             └─13835 "nginx: worker process"
               └─13836 "nginx: worker process"
```

```
● caddy.service - Caddy
   Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: enabl
   Active: active (running) since Fri 2025-10-31 08:28:09 UTC; 22min ago
     Docs: https://caddyserver.com/docs/
   Main PID: 14731 (caddy)
     Tasks: 7 (limit: 1017)
    Memory: 9.8M (peak: 11.8M)
       CPU: 115ms
    CGroup: /system.slice/caddy.service
           └─14731 /usr/bin/caddy run --environ --config /etc/caddy/Caddyfile
```

```
ubuntu@ip-172-31-17-55:~$ sudo netstat -tulpn | grep -E '8080|8081|8082|8443'
tcp        0      0 0.0.0.0:8081          0.0.0.0:*            LISTEN      138
34/nginx: master
tcp6       0      0 :::8443              :::*                  LISTEN      152
13/apache2
tcp6       0      0 :::8080              :::*                  LISTEN      152
13/apache2
tcp6       0      0 :::8081              :::*                  LISTEN      138
34/nginx: master
tcp6       0      0 :::8082              :::*                  LISTEN      147
31/caddy
```