- 1. Apache2 y Nginx ya están instalados
- 2. Cambio puerto

```
GNU nano 7.2 /etc/apache2/ports.conf *

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

Listen 8080

<IfModule ssl_module>
    Listen 443

</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
    # the server uses to identify itself. This is used when creat
    # redirection URLs. In the context of virtual hosts, the Server specifies what hostname must appear in the request's Host:
    # match this virtual host. For the default virtual host (this # value is not decisive as it is used as a last resort host of the However, you must set it for any further virtual host explorately serverName www.example.com

ServerAdmin webmaster@localhost
DocumentRoot /var/www/html

# Available loglevels: trace8, ..., trace1, debug, info, not # error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular.
# It is also possible to configure the loglevel for particular.
# It is also possible to configure the loglevel for particular.
# Available loglevels: trace8, ..., trace1, debug, info, not # error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular.
# It is also possible to configure the loglevel for particular.
# It is also possible to configure the loglevel for particular.
# Available loglevels: trace8, ..., trace1, debug, info, not # error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular.
# It is also possible to configure the loglevel for particular # extends #
```

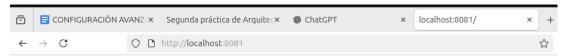
3. Funciona Apache2

PHP Version 8.3.6

System	Linux ubuntu24 6.14.0-33-generic #33~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 19 17:02:30 UTC 2 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-calendar.ini, /etc/php/8.3/apache2/conf.d/20-calendar.ini, /etc/php/8.3/apache2/conf.d/20-fi.ini, /etc/php/8.3/apache2/conf.d/20-fi.ini, /etc/php/8.3/apache2/conf.d/20-fi.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-posix.ini, /etc/php/8.3/apache2/conf.d/20-conf.d/20-gettext.ini, /etc/php/8.3/apache2/conf.d/20-posix.ini, /etc/php/8.3/apache2/conf.d/20-sokets.ini, /etc/php/8.3/apache2/conf.d/20-sokets.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.ini, /etc/php/8.3/apache2/conf.d/20-sysvsem.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

4. Cambiamos puerto de Nginx

Nginx funciona



Hola Mundo desde Nginx

Servidor funcionando correctamente

6. Instalamos dependencias y el repositorio de Caddy

```
vboxuser@ubuntu24:~$ sudo apt install -y debian-keyring debian-archive-keyring
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
curl is already the newest version (8.5.0-2ubuntu10.6).
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  apt-transport-https debian-archive-keyring debian-keyring
0 upgraded, 3 newly installed, 0 to remove and 5 not upgraded.
Need to get 31.5 MB of archives.
After this operation, 33.4 MB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/universe amd64 apt-trar
Get:2 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 debian-archive-k
Get:3 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 debian-keyring
Fetched 31.5 MB in 14s (2,266 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 151052 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.8.3_all.deb ...
Unpacking apt-transport-https (2.8.3) ...
```

```
vboxuser@ubuntu24:~$ curl -1slf 'https://dl.cloudsmith.io/public/caddy/stable/gpg.k
e/keyrings/caddy-stable-archive-keyring.gpg
vboxuser@ubuntu24:~$ curl -1slf 'https://dl.cloudsmith.io/public/caddy/stable/debia
s.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.clobian any-version main

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

7. Instalamos Caddy

```
vboxuser@ubuntu24:~$ sudo apt update && sudo apt install caddy -y
Hit:1 http://es.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126]
Get:3 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease [126]
Get:4 https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-vers
Get:5 http://es.archive.ubuntu.com/ubuntu noble-backports InRelease [1]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Pack
Get:7 https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-vers
Get:8 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 Pack
Get:9 http://security.ubuntu.com/ubuntu noble-security/main Translatio
Get:10 http://security.ubuntu.com/ubuntu noble-security/main amd64 Com
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n
Get:12 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n
```

8. Creo directorio para Caddy

```
vboxuser@ubuntu24:~$ sudo mkdir -p /var/www/caddy
vboxuser@ubuntu24:~$
```

9. Creamos archivo markdown

```
vboxuser@ubuntu24:~$ echo "# Bienvenido a Caddy" | sudo tee /var/www/echo "" | sudo tee -a /var/www/caddy/README.md
echo "Este servidor está funcionando correctamente." | sudo tee -a /vecho "" | sudo tee -a /var/www/caddy/README.md
echo "## Características" | sudo tee -a /var/www/caddy/README.md
echo "- Servidor moderno" | sudo tee -a /var/www/caddy/README.md
echo "- HTTPS automático" | sudo tee -a /var/www/caddy/README.md
echo "- Fácil configuración" | sudo tee -a /var/www/caddy/README.md
# Bienvenido a Caddy

Este servidor está funcionando correctamente.

## Características
- Servidor moderno
- HTTPS automático
- Fácil configuración
```

10. Descargamos imagen de prueba

11. Configura el archivo Caddyfile

```
# To use your own domain name (with automatic HTTP:
# sure your domain's A/AAAA DNS records are proper
# this machine's public IP, then replace ":80" below
# domain name.

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

    # Enable the static file server.
    file_server

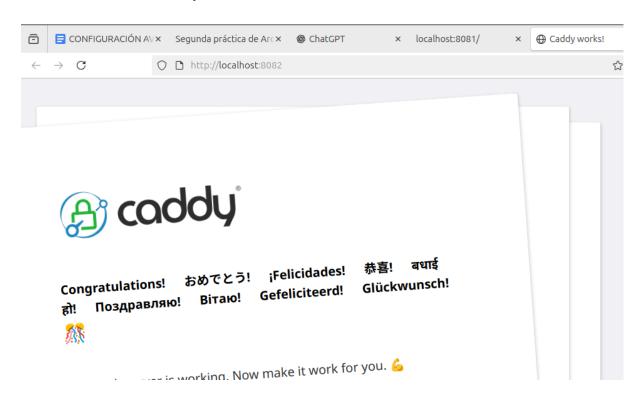
# Another common task is to set up a rever.
```

12. Reiniciamos Caddy y hacemos status

```
vboxuser@ubuntu24:~$ sudo systemctl restart caddy
vboxuser@ubuntu24:~$ sudo systemctl status caddy

caddy.service - Caddy
Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: enabled)
Active: active (running) since Wed 2025-10-08 07:27:50 UTC; 5s ago
Docs: https://caddyserver.com/docs/
Main PID: 7982 (caddy)
Tasks: 9 (limit: 4603)
Memory: 10.9M (peak: 11.7M)
CPU: 75ms
CGroup: /system.slice/caddy.service
T7982 /usr/bin/caddy run --environ --config /etc/caddy/Caddyfile
```

13. Pruebas con Caddy





14. Instala Certbot y plugin Apache

```
vboxuser@ubuntu24:~$ sudo apt install certbot python3-certbot-apache -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
   libllvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
   augeas-lenses libaugeas0 python3-acme python3-augeas python3-certbot python3
   python3-josepy python3-openssl python3-parsedatetime python3-rfc3339
Suggested packages:
```

15. Genera certificado autofirmado

16. Activa módulo SSL

```
vboxuser@ubuntu24:~$ 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
To activate the new configuration, you need to
systemctl restart apache2
```

17. Edita VirtualHost SSL

```
# Enable/Disable SSL for this virtual host.
SSLEngine on

# A self-signed (snakeoil) certificate can be created by inst
# the ssl-cert package. See
# /usr/share/doc/apache2/README.Debian.gz for more info.
# If both key and certificate are stored in the same file, or
# SSLCertificateFile directive is needed.
SSLCertificateFile /etc/ssl/certs/apache-selfsigned.crt
SSLCertificateKeyFile /etc/ssl/private/apache-selfsigned.key
# Server Certificate Chain:
```

18. Cambiamos puerto

```
# /etc/apache2/sites-en
Listen 8443
<IfModule ssl_module>
        Listen 443
</IfModule>
<VirtualHost *:8443>
        ServerAdmin webmaster@localhost

DocumentRoot /var/www/html

# Available loglevels: trace8,
# error, crit, alert, emerg.
```

19. Habilita sitio SSL

```
vboxuser@ubuntu24:~$ sudo a2ensite default-ssl.conf
Enabling site default-ssl.
To activate the new configuration, you need to run:
  systemctl reload apache2
vboxuser@ubuntu24:~$ sudo systemctl restart apache2
```

Verifica HTTPS

```
vboxuser@ubuntu24:~$ sudo systemctl restart apache2
vboxuser@ubuntu24:~$ curl -i -k https://localhost:8443
HTTP/1.1 200 OK
Date: Wed, 08 Oct 2025 07:58:00 GMT
Server: Apache/2.4.58 (Ubuntu)
Last-Modified: Wed, 01 Oct 2025 08:56:05 GMT
ETag: "49-6401509f0146e"
Accept-Ranges: bytes
Content-Length: 73
Vary: Accept-Encoding
Content-Type: text/html
<h1>Hola Mundo desde Nginx</h1>Servidor funcionando correctamente
vboxuser@ubuntu24:~$
```

```
apache2.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; preset: enabled)
Active: active (running) since Wed 2025-10-08 07:56:37 UTC; 2min 15s ago
Docs: https://httpd.apache.org/docs/2.4/
Process: 9790 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
Main PID: 9796 (apache2)
Tasks: 6 (limit: 4603)
Memory: 11.8M (peak: 12.2M)
CPU: 61ms
CGroup: /system.sliee/
              CGroup: /system.slice/apache2.service
                                          —9796 /usr/sbin/apache2 -k start
—9798 /usr/sbin/apache2 -k start
—9799 /usr/sbin/apache2 -k start
                                             –9800 /usr/sbin/apache2 -k start
–9801 /usr/sbin/apache2 -k start
Oct 08 07:56:37 ubuntu24 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Oct 08 07:56:37 ubuntu24 apachectl[9795]: AH00558: apache2: Could not reliably determine the server
Oct 08 07:56:37 ubuntu24 systemd[1]: Started apache2.service - The Apache HTTP Server.
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)
Docs: man:nginx(8)
Main PID: 6303 (nginx)
Tasks: 5 (limit: 4603)
Memory: 4.4M (peak: 5.0M)
CPU: 18ms
Group: /system.slice/nainx.service
              CGroup: /system.slice/nginx.service
```

```
caddy.service - Caddy
Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: en
Active: active (running) since Wed 2025-10-08 07:34:53 UTC; 25min ago
Docs: https://caddyserver.com/docs/
Main PID: 8452 (caddy)
Tasks: 8 (limit: 4603)
Memory: 9.9M (peak: 11.3M)
CPU: 447ms
CGroup: /system.slice/caddy.service
L8452 /usr/bin/caddy run --environ --config /etc/caddy/Caddyfile
```

```
vboxuser@ubuntu24: ~
vboxuser@ubuntu24:~$ sudo netstat -tulpn | grep -E '8080|8081|8082|8443'
tcp
           0
                  0 0.0.0.0:8081
                                              0.0.0.0:*
                                                                       LISTEN
                                                                                    11509/nginx: master
tcp6
           0
                  0 :::8
                                              :::*
                                                                       LISTEN
                                                                                    8452/caddy
tcp6
                                                                       LISTEN
                                                                                    11531/apache2
           0
                                              :::*
                                                                       LISTEN
                                                                                    11509/nginx: master
tcp6
tcp6
           0
                                                                       LISTEN
                                                                                    11531/apache2
vboxuser@ubuntu24:~$
```

```
vboxuser@ubuntu24:~$ curl http://localhost:8081
<h1>Hola Mundo desde Nginx</h1>Servidor funcionando correctamente
vboxuser@ubuntu24:~$
```



Hola Mundo desde Nginx

Servidor funcionando correctamente



Hola Mundo desde Nginx

Servidor funcionando correctamente