

## PARTE 1:

### 1.Actualizar el Sistema

```
root@ubuntujuan1:/home/vboxuser# apt update
Hit:1 http://es.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://es.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
84 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
root@ubuntujuan1:/home/vboxuser# apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
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:
  libllvm20
The following upgrades have been deferred due to phasing:
  gdm3 gir1.2-gdm-1.0 libgdm1 libwireplumber-0.4-0 systemd-hwe-hwdb tcpdump wireplumber
The following packages will be upgraded:
```

### 2.Instalar Apache2

```
root@ubuntujuan1:/home/vboxuser# apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.8).
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
```

### 3.Configuración de apache2 en puerto 8080

```

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>

```

#### 4.Modificar VirtualHost

```

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

```

#### 5.Instalación PHP

```

root@ubuntujuan1:/home/vboxuser# apt install php libapache2-mod-php -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:
  libapache2-mod-php8.3 libsodium23 php-common php8.3 php8.3-cli php8.3-common php8.3-opc
Suggested packages:
  php-pear

```

#### 6.Reiniciar apache2

```

root@ubuntujuan1:/home/vboxuser# systemctl restart apache2

```

#### 7.Verificar estado de apache2

```

root@ubuntujan1:/home/vboxuser# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-10 07:28:36 UTC; 43s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 25471 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 25474 (apache2)
    Tasks: 6 (limit: 4604)
  Memory: 10.6M (peak: 11.0M)
     CPU: 42ms
  CGroup: /system.slice/apache2.service
          └─25474 /usr/sbin/apache2 -k start
            └─25476 /usr/sbin/apache2 -k start
              └─25477 /usr/sbin/apache2 -k start
                └─25478 /usr/sbin/apache2 -k start
                  └─25479 /usr/sbin/apache2 -k start
                    └─25480 /usr/sbin/apache2 -k start

```


## 8.Crear archivo PHP de prueba

```

root@ubuntujan1:/home/vboxuser# echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php
<?php phpinfo(); ?>

```

## 9.Probar apache2

PHP Version 8.3.6	
	
System	Linux ubuntujan1 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-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-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.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

## PARTE 2:

## 1.Instalar Nginx

```
root@ubuntujuan1:/home/vboxuser# apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  liblvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 7 not upgraded.
Need to get 564 kB of archives.
After this operation, 1,596 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
```

## 2.Configurar Nginx en puerto 8081

```
GNU nano 7.2 /etc/nginx/sites-available/default *
# 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;
```

## 3.Crear página HTML personalizada

```
root@ubuntujuan1:/home/vboxuser# echo "<h1>Scrvidor Nginx</h1><p>Funcionando en puerto 8081</p>" | sudo tee
ginx/html/index.html
<h1>Scrvidor Nginx</h1><p>Funcionando en puerto 8081</p>
```

## 4.Reiniciar Nginx

```
root@ubuntujuan1:/home/vboxuser# systemctl restart nginx
```

## 5.Verificar estado Nginx

```
root@ubuntujujan1:/home/vboxuser# 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 2025-10-10 07:59:07 UTC; 29s ago
     Docs: man:nginx(8)
  Process: 27227 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Process: 27229 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 27231 (nginx)
    Tasks: 3 (limit: 4604)
   Memory: 2.4M (peak: 2.8M)
      CPU: 12ms
   CGroup: /system.slice/nginx.service
           └─27231 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─27232 "nginx: worker process"
               └─27233 "nginx: worker process"

Oct 10 07:59:07 ubuntujujan1 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server: [main]
Oct 10 07:59:07 ubuntujujan1 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server: [main]
```

## 6.Probar Nginx en terminal

```
root@ubuntujuan1:/home/vboxuser# curl http://localhost:8081
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-trans
>
<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
  -->
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>Apache2 Ubuntu Default Page: It works</title>
    <style type="text/css" media="screen">

* {
  margin: 0px 0px 0px 0px;
  padding: 0px 0px 0px 0px;
}

```

## PARTE 3:

## 1.Instalar dependencias necesarias

```

root@ubuntujuan1:/home/vboxuser# apt install -y debian-keyring debian-archive-keyring apt-transport-https
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 7 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-transport-https all 2.8.3 [3,
Get:2 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 debian-archive-keyring all 2023.4ubuntu1
Get:3 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 debian-keyring all 2023.12.24 [31.3 MB]
Fetched 31.5 MB in 15s (2,139 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 151074 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.8.3_all.deb ...
Unpacking apt-transport-https (2.8.3) ...
Selecting previously unselected package debian-archive-keyring.
Preparing to unpack .../debian-archive-keyring_2023.4ubuntu1_all.deb ...
Unpacking debian-archive-keyring (2023.4ubuntu1) ...
Selecting previously unselected package debian-keyring.
Preparing to unpack .../debian-keyring_2023.12.24_all.deb ...
Unpacking debian-keyring (2023.12.24) ...
Setting up apt-transport-https (2.8.3) ...
Setting up debian-archive-keyring (2023.4ubuntu1) ...
Setting up debian-keyring (2023.12.24) ...

```

## 2. Agregar repositorio de Caddy

```

root@ubuntujuan1:/home/vboxuser# curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/gpg.key' | sudo gpg --dearmor
-o /usr/share/keyrings/caddy-stable-archive-keyring.gpg

```

```

root@ubuntujuan1:/home/vboxuser# curl -1sLf 'https://dl.cloudsmith.io/public/caddy/stable/debian.deb.txt' | sudo tee /
c/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/
bian any-version main

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

```

## 3. Actualizar e Instalar Caddy

```

root@ubuntujuan1:/home/vboxuser# apt update && sudo apt install caddy -y
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://es.archive.ubuntu.com/ubuntu noble InRelease
Get:3 https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-version InRelease [14.8 kB]
Hit:4 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://es.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:6 https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-version/main amd64 Packages [16.0 MB]
Fetched 19.1 kB in 1s (37.3 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
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 NEW packages will be installed:
  caddy
0 upgraded, 1 newly installed, 0 to remove and 7 not upgraded.
Need to get 16.0 MB of archives.
After this operation, 44.5 MB of additional disk space will be used.
Get:1 https://dl.cloudsmith.io/public/caddy/stable/deb/debian any-version/main amd64 caddy amd64 1.16.0-1 [16.0 MB]

```

#### 4.Crear directorio para Caddy

```

root@ubuntujuan1:/home/vboxuser# mkdir -p /var/www/caddy

```

#### 5.Crear archivo Markdown de prueba

```

root@ubuntujuan1:/home/vboxuser# echo "# Bienvenido a Caddy" | sudo tee /var/www/caddy/README.md
echo "" | sudo tee -a /var/www/caddy/README.md
echo "Este servidor está funcionando correctamente." | sudo tee -a
/var/www/caddy/README.md
echo "" | 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.
bash: /var/www/caddy/README.md: Permission denied

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

```

#### 6.Crear imagen de prueba

```

root@ubuntujuan1:/home/vboxuser# curl -o /tmp/test-image.jpg "https://www.python.org/static/apple-touch-
icon-144x144-precomposed.png"
curl: (3) URL rejected: Malformed input to a URL function

```



```

root@ubuntujuan1:/home/vboxuser# curl -o /tmp/test-image.jpg https://www.python.org/static/apple-touch-
icon-144x144-precomposed.png"sudo mv /tmp/test-image.jpg /var/www/caddy/test.jpg
curl: (3) URL rejected: Malformed input to a URL function
curl: (6) Could not resolve host: mv
curl: (3) URL rejected: No host part in the URL
curl: (3) URL rejected: No host part in the URL
root@ubuntujuan1:/home/vboxuser# curl -o /tmp/test-image.jpg "https://www.python.org/static/apple-touch-icon-144x144-pre
composed.png" sudo mv /tmp/test-image.jpg /var/www/caddy/test.jpg
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 7382  100 7382    0     0  125k      0  --:--:-- --:--:-- --:--:--  126k
curl: (6) Could not resolve host: sudo
curl: (6) Could not resolve host: mv
curl: (3) URL rejected: No host part in the URL
curl: (3) URL rejected: No host part in the URL

```

## 7.Crear Caddyfile personalizada

```

GNU nano 7.2 /etc/caddy/Caddyfile
# 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.

:80 {
    # 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 reverse proxy:
    # reverse_proxy localhost:8080

    # Or serve a PHP site through php-fpm:
    # php_fastcgi localhost:9000
}

# Refer to the Caddy docs for more information:
# https://caddyserver.com/docs/caddyfile

:8082 {
root * /var/www/caddy
file_server browse
@markdown path *.md
header @markdown Content-Type text/plain
}

```

## 8.Reiniciar Caddy

```

root@ubuntujuan1:/home/vboxuser# systemctl restart caddy

```

## 9.Verificar estado Caddy



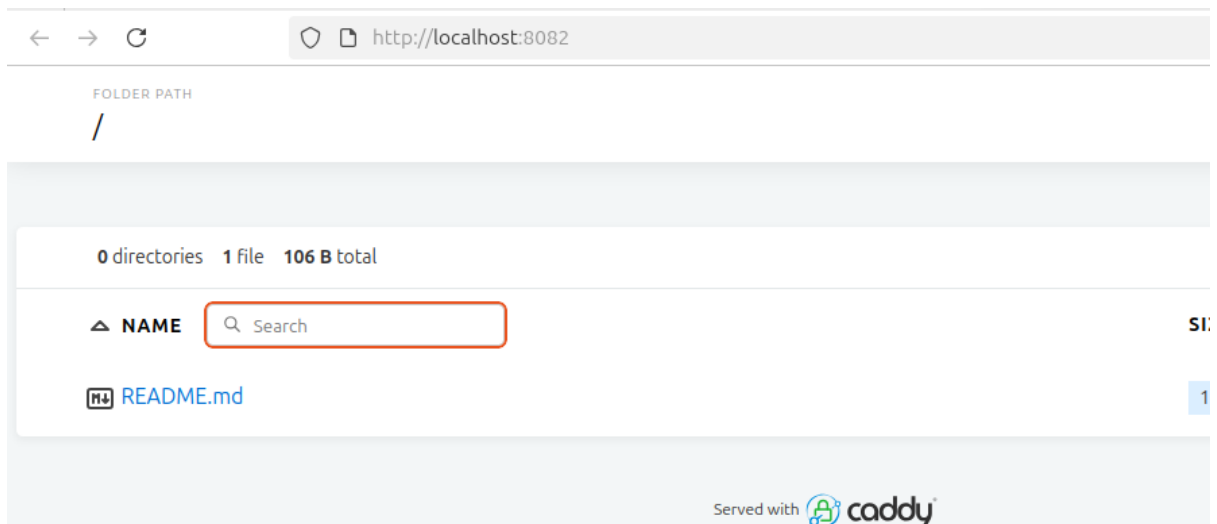
```

root@ubuntujuan1:/home/vboxuser# systemctl status caddy
● caddy.service - Caddy
   Loaded: loaded (/usr/lib/systemd/system/caddy.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-10 08:40:37 UTC; 35s ago
     Docs: https://caddyserver.com/docs/
   Main PID: 29965 (caddy)
    Tasks: 7 (limit: 4604)
   Memory: 12.0M (peak: 12.4M)
      CPU: 71ms
   CGroup: /system.slice/caddy.service
           └─29965 /usr/bin/caddy run --environ --config /etc/caddy/Caddyfile

Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6034951,"logger":
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"warn","ts":1760085637.6035237,"logger
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"warn","ts":1760085637.6035259,"logger
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6035273,"logger
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6037712,"logger
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.603982,"msg":"a
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6040437,"msg":"
Oct 10 08:40:37 ubuntujuan1 systemd[1]: Started caddy.service - Caddy.
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6094387,"logger
Oct 10 08:40:37 ubuntujuan1 caddy[29965]: {"level":"info","ts":1760085637.6095512,"logger
lines 1-21/21 (END)

```

## 10. Probar Caddy desde terminal



## 11. Probar archivo Markdown

```

root@ubuntujuan1:/home/vboxuser# curl http://localhost:8082/README.md
# Bienvenido a Caddy

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

```

```
← → ↻ http://localhost:8082/README.md

# Bienvenido a Caddy

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

## PARTE 4:

### 1.Instalar Certbot y el plugin de Apache

```
root@ubuntujuan1:/home/vboxuser# 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-configargp
python3-josepy python3-openssl python3-parsedatetime python3-rfc3339
Suggested packages:
  augeas-doc python-certbot-doc python3-certbot-nginx augeas-tools python-acme-doc python
python-openssl-doc python3-openssl-dbg
The following NEW packages will be installed:
  augeas-lenses certbot libaugeas0 python3-acme python3-augeas python3-certbot python3-ce
python3-configargparse python3-icu python3-josepy python3-openssl python3-parsedatetime
0 upgraded, 13 newly installed, 0 to remove and 7 not upgraded.
Need to get 1,705 kB of archives.
After this operation, 8,858 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 augeas-lenses all 1:14.1-1
```

### 2.Verificar dominio o localhost

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

### 3.Habilitar modulo SSL Apache

```
root@ubuntujuan1:/home/vboxuser# 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
root@ubuntujuan1:/home/vboxuser#
```

### 4.Crear configuración SSL para Apache



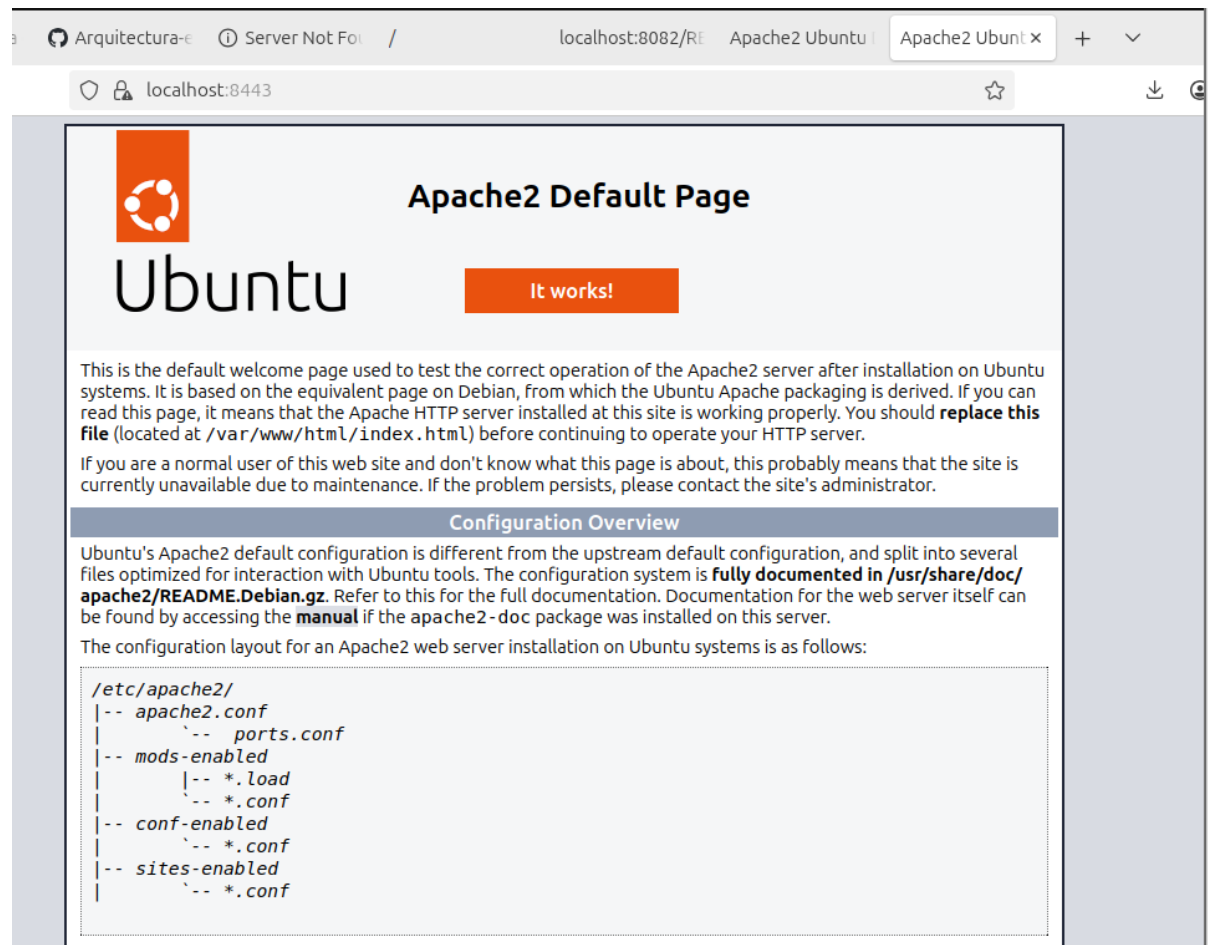
## 7.Habilitar sitio SSL

```
root@ubuntujuan1:/home/vboxuser# sudo a2ensite default-ssl.conf
Site default-ssl already enabled
```

## 8.Reiniciar Apache

```
root@ubuntujuan1:/home/vboxuser# systemctl restart apache2
```

## 9.Verificar HTTPS



```

root@ubuntujuan1:/home/vboxuser# curl -i -k https://localhost:8443
HTTP/1.1 200 OK
Date: Fri, 10 Oct 2025 09:01:58 GMT
Server: Apache/2.4.58 (Ubuntu)
Last-Modified: Fri, 10 Oct 2025 07:20:20 GMT
ETag: "29af-640c8c01782e1"
Accept-Ranges: bytes
Content-Length: 10671
Vary: Accept-Encoding
Content-Type: text/html

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml
>
<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
  -->
  <head>

```

## PARTE 5:

1.

```

root@ubuntujuan1:/home/vboxuser# systemctl status apache2 nginx caddy
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-10 09:01:12 UTC; 5min ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 31067 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 31071 (apache2)
    Tasks: 8 (limit: 4604)
   Memory: 14.3M (peak: 14.5M)
      CPU: 86ms
   CGroup: /system.slice/apache2.service
           └─31071 /usr/sbin/apache2 -k start
             └─31073 /usr/sbin/apache2 -k start
               └─31074 /usr/sbin/apache2 -k start
                 └─31075 /usr/sbin/apache2 -k start
                   └─31076 /usr/sbin/apache2 -k start
                     └─31077 /usr/sbin/apache2 -k start
                       └─31191 /usr/sbin/apache2 -k start
                         └─31474 /usr/sbin/apache2 -k start

Oct 10 09:01:12 ubuntujuan1 systemd[1]: Starting apache2.service - The Apache HTTP Serve
Oct 10 09:01:12 ubuntujuan1 apachectl[31070]: AH00558: apache2: Could not reliably deter
Oct 10 09:01:12 ubuntujuan1 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) since Fri 2025-10-10 07:59:07 UTC; 1h 7min ago
     Docs: man:nginx(8)
  Main PID: 27231 (nginx)
    Tasks: 3 (limit: 4604)
   Memory: 2.4M (peak: 2.8M)
      CPU: 14ms

```

2.Verificar puertos en uso

```


root@ubuntujuan1:/home/vboxuser# netstat -tulpn | grep -E '8080|8081|8082|8443'
tcp        0      0 0.0.0.0:8081          0.0.0.0:*            LISTEN     27231/ngi
tcp6       0      0 :::8443              :::*                  LISTEN     31071/apa
tcp6       0      0 :::8082              :::*                  LISTEN     29965/cad
tcp6       0      0 :::8080              :::*                  LISTEN     31071/apa
tcp6       0      0 :::8081              :::*                  LISTEN     27231/ngi
root@ubuntujuan1:/home/vboxuser#

```

### 3. Probar todos los servidores



← → ↻ http://localhost:8080



## Apache2 Default Page

# Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you read this page, it means that the Apache HTTP server installed at this site is working properly. You should read the [file](#) (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

### Configuration Overview

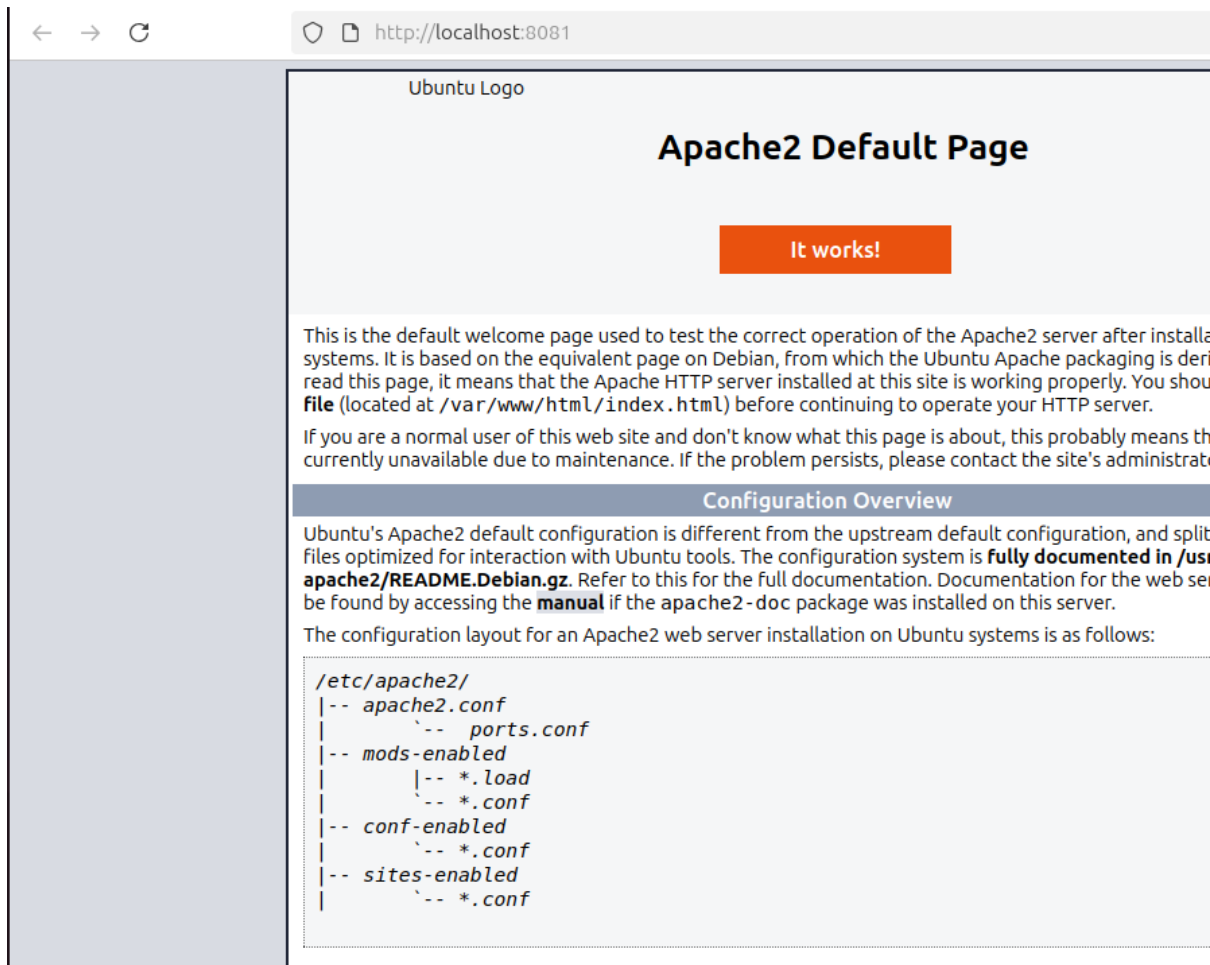
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```


/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf

```





localhost:8443



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