

Practica servidores web. Servicios de redes e internet

Por Iván Garrido Moguer

[Practica servidores web. Servicios de redes e internet](#)

[Instalación del servidor web apache. Usaremos dos dominios mediante el archivo hosts: centro.intranet y departamentos.centro.intranet. El primero servirá el contenido mediante wordpress y el segundo una aplicación en python](#)

[Activar los módulos necesarios para ejecutar php y acceder a mysql](#)

[Instala y configura wordpress](#)

[Activar el módulo “wsgi” para permitir la ejecución de aplicaciones Python](#)

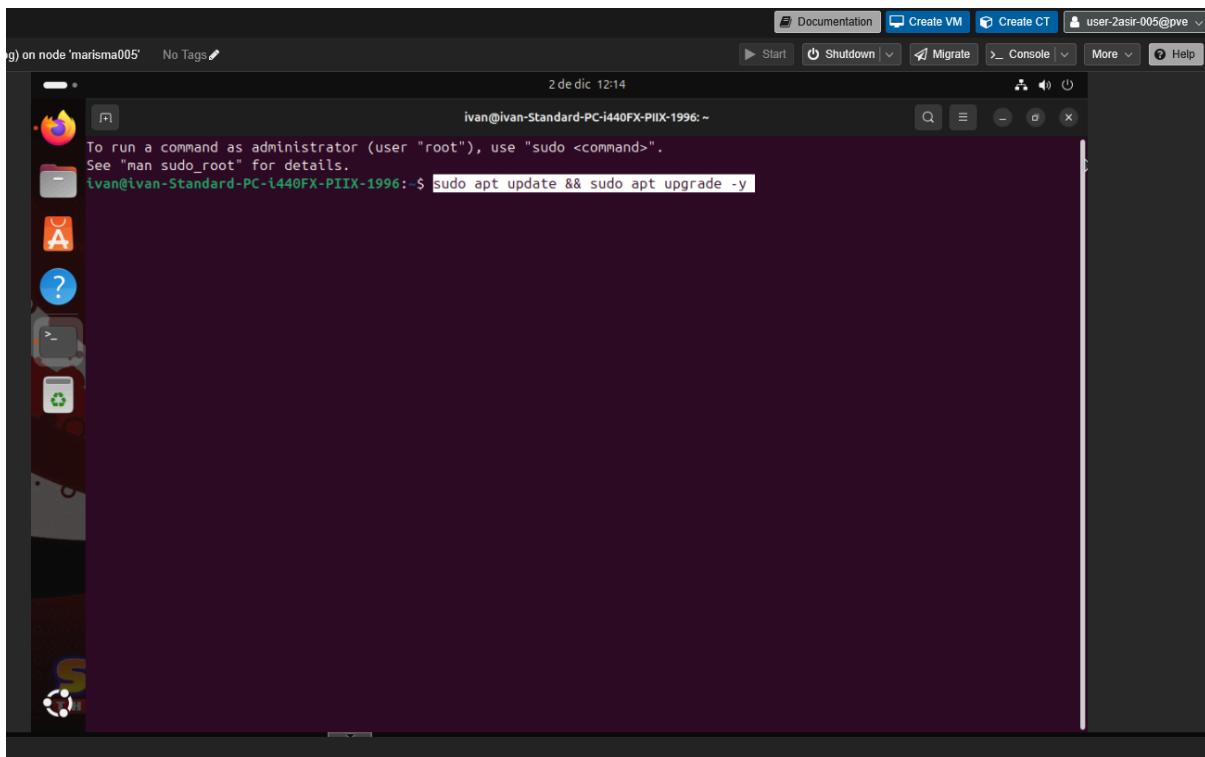
[• Crea y despliega una pequeña aplicación python para comprobar que funciona correctamente.](#)

[Adicionalmente protegeremos el acceso a la aplicación python mediante autenticación](#)

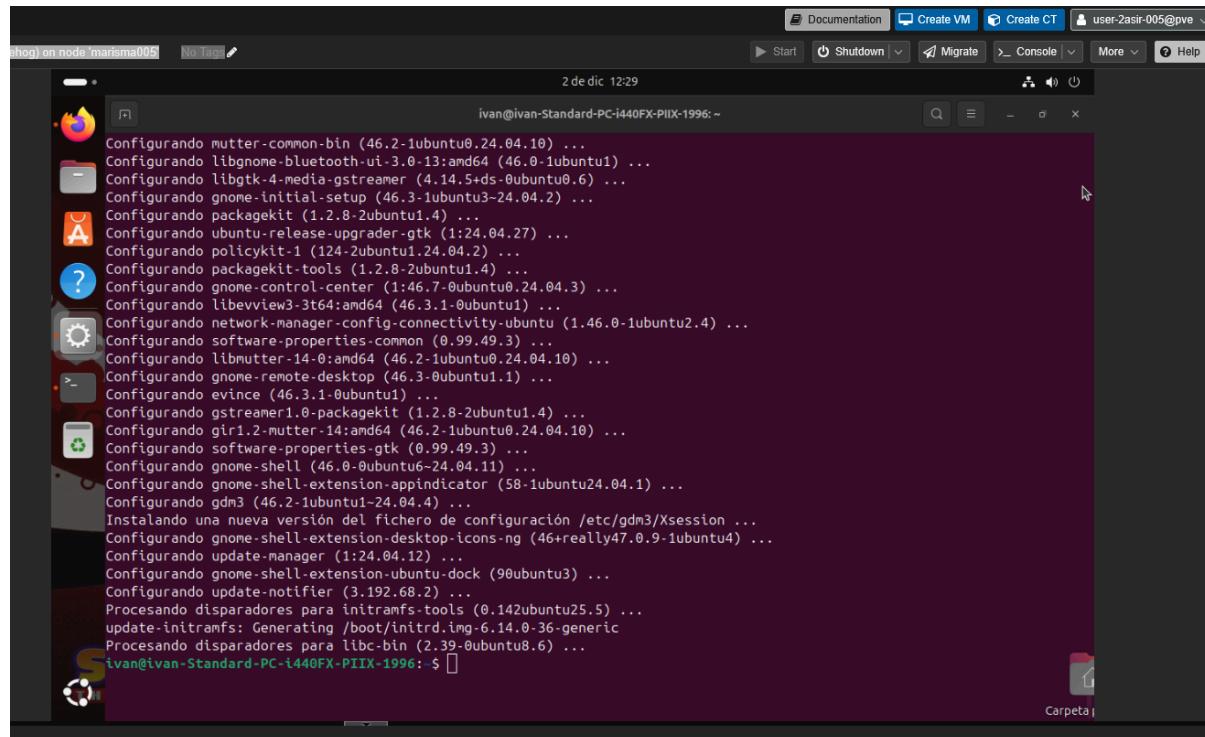
[Instala y configura awstat](#)

[Instala un segundo servidor de tu elección \(nginx, lighttpd\) bajo el dominio “servidor2.centro.intranet”. Debes configurarlo para que sirva en el puerto 8080 y haz los cambios necesarios para ejecutar php. Instala phpmyadmin](#)

Instalamos un ubuntu limpio y actualizamos los paquetes

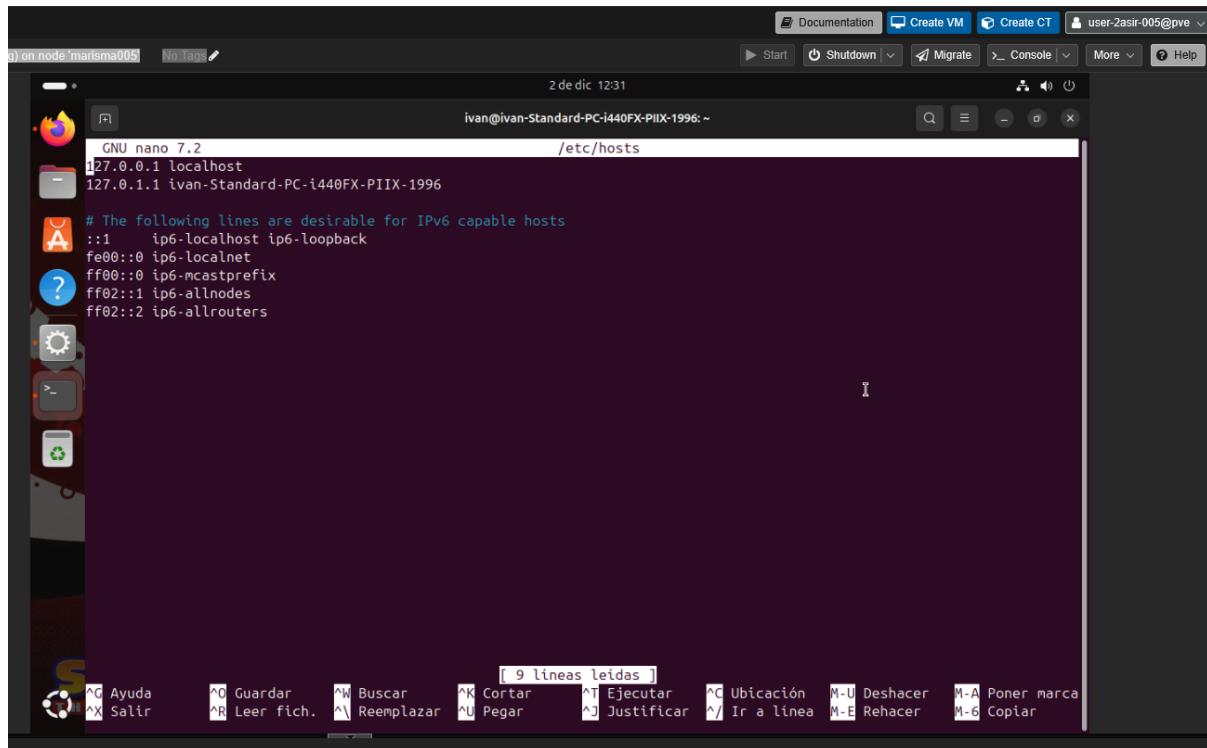


Con sudo apt update && sudo apt upgrade -y



Instalación del servidor web apache. Usaremos dos dominios mediante el archivo hosts: centro.intranet y departamentos.centro.intranet. El primero servirá el contenido mediante wordpress y el segundo una aplicación en python

Entramos a los hosts que tenemos con sudo nano /etc/hosts



The screenshot shows a terminal window titled "GNU nano 7.2" displaying the contents of the "/etc/hosts" file. The file contains the following entries:

```
127.0.0.1 localhost
127.0.1.1 ivan-Standard-PC-i440FX-PIIX-1996

# The following lines are desirable for IPv6 capable hosts
::1      ip6-localhost ip6-loopback
fe00::0  ip6-localnet
ff00::0  ip6-mcastprefix
ff02::1  ip6-allnodes
ff02::2  ip6-allrouters
```

The terminal window is part of a desktop environment with a dark theme. The title bar shows the user "ivan@ivan-Standard-PC-i440FX-PIIX-1996" and the date "2 de dic 12:31". The bottom of the window displays a menu of keyboard shortcuts.

Creo centro.intranet departamentos.centro.intranet y otro que nos hara falta en uno de los apartados finales

The screenshot shows a terminal window titled "GNU nano 7.2" with the command "/etc/hosts" run. The file contains the following content:

```
127.0.0.1 localhost
127.0.1.1 ivan-Standard-PC-i440FX-PIIX-1996
127.0.0.1 centro.intranet
127.0.0.1 departamentos.centro.intranet
127.0.0.1 servidor2.centro.intranet
# The following lines are desirable for IPv6 capable hosts
::1      ip6-localhost ip6-loopback
fe00::0  ip6-localnet
ff00::0  ip6-mcastprefix
ff02::1  ip6-allnodes
ff02::2  ip6-allrouters
```

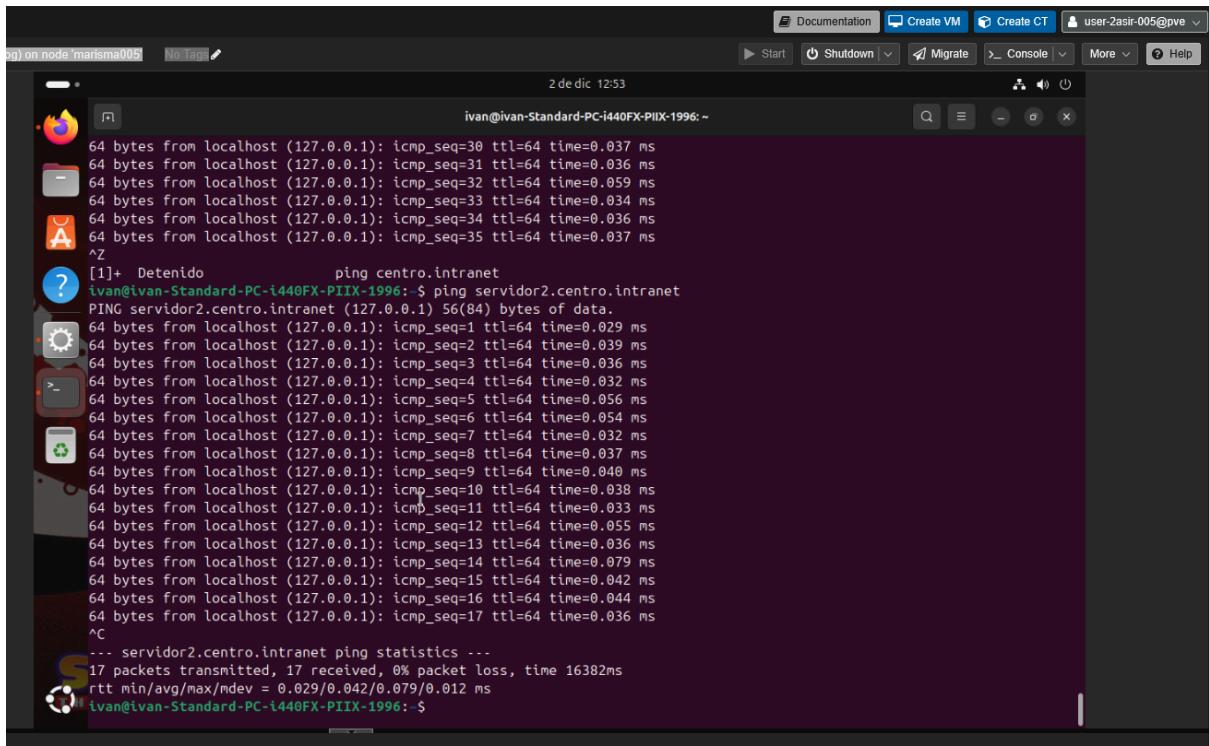
The screenshot shows a terminal window titled "ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~" with the command "ping" run. The output shows multiple ICMP echo requests being sent to the local host (127.0.0.1) with TTL=64 and various sequence numbers (seq=152 to seq=178). The results are as follows:

```
64 bytes from localhost (127.0.0.1): icmp_seq=152 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=153 ttl=64 time=0.042 ms
64 bytes from localhost (127.0.0.1): icmp_seq=154 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=155 ttl=64 time=0.045 ms
64 bytes from localhost (127.0.0.1): icmp_seq=156 ttl=64 time=0.051 ms
64 bytes from localhost (127.0.0.1): icmp_seq=157 ttl=64 time=0.054 ms
64 bytes from localhost (127.0.0.1): icmp_seq=158 ttl=64 time=0.042 ms
64 bytes from localhost (127.0.0.1): icmp_seq=159 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=160 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=161 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=162 ttl=64 time=0.056 ms
64 bytes from localhost (127.0.0.1): icmp_seq=163 ttl=64 time=0.052 ms
64 bytes from localhost (127.0.0.1): icmp_seq=164 ttl=64 time=0.052 ms
64 bytes from localhost (127.0.0.1): icmp_seq=165 ttl=64 time=0.039 ms
64 bytes from localhost (127.0.0.1): icmp_seq=166 ttl=64 time=0.042 ms
64 bytes from localhost (127.0.0.1): icmp_seq=167 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=168 ttl=64 time=0.034 ms
64 bytes from localhost (127.0.0.1): icmp_seq=169 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=170 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=171 ttl=64 time=0.031 ms
64 bytes from localhost (127.0.0.1): icmp_seq=172 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=173 ttl=64 time=0.035 ms
64 bytes from localhost (127.0.0.1): icmp_seq=174 ttl=64 time=0.035 ms
64 bytes from localhost (127.0.0.1): icmp_seq=175 ttl=64 time=0.051 ms
64 bytes from localhost (127.0.0.1): icmp_seq=176 ttl=64 time=0.065 ms
64 bytes from localhost (127.0.0.1): icmp_seq=177 ttl=64 time=0.034 ms
64 bytes from localhost (127.0.0.1): icmp_seq=178 ttl=64 time=0.035 ms
^C
--- departamentos.centro.intranet ping statistics ---
178 packets transmitted, 178 received, 0% packet loss, time 181227ms
rtt min/avg/max/mdev = 0.022/0.040/0.110/0.009 ms
```

Probamos a hacer ping y efectivamente nos hace ping

The screenshot shows a terminal window titled "ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~" running on a host named "marisma05". The terminal displays the output of a ping command to the local host (127.0.0.1). The output shows 35 ICMP echo requests sent, each with a sequence number from 7 to 35, all with a TTL of 64 and a time of approximately 0.037 ms. The terminal window has a dark theme and includes icons for various applications like a browser, file manager, and system settings.

```
64 bytes from localhost (127.0.0.1): icmp_seq=7 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=8 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=9 ttl=64 time=0.055 ms
64 bytes from localhost (127.0.0.1): icmp_seq=10 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=11 ttl=64 time=0.052 ms
64 bytes from localhost (127.0.0.1): icmp_seq=12 ttl=64 time=0.081 ms
64 bytes from localhost (127.0.0.1): icmp_seq=13 ttl=64 time=0.060 ms
64 bytes from localhost (127.0.0.1): icmp_seq=14 ttl=64 time=0.041 ms
64 bytes from localhost (127.0.0.1): icmp_seq=15 ttl=64 time=0.035 ms
64 bytes from localhost (127.0.0.1): icmp_seq=16 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=17 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=18 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=19 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=20 ttl=64 time=0.056 ms
64 bytes from localhost (127.0.0.1): icmp_seq=21 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=22 ttl=64 time=0.034 ms
64 bytes from localhost (127.0.0.1): icmp_seq=23 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=24 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=25 ttl=64 time=0.052 ms
64 bytes from localhost (127.0.0.1): icmp_seq=26 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=27 ttl=64 time=0.050 ms
64 bytes from localhost (127.0.0.1): icmp_seq=28 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=29 ttl=64 time=0.040 ms
64 bytes from localhost (127.0.0.1): icmp_seq=30 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=31 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=32 ttl=64 time=0.059 ms
64 bytes from localhost (127.0.0.1): icmp_seq=33 ttl=64 time=0.034 ms
64 bytes from localhost (127.0.0.1): icmp_seq=34 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=35 ttl=64 time=0.037 ms
^Z
[1]+  Detenido                  ping centro.intranet
ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~
```



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~". The terminal content shows the following command and its output:

```
ping centro.intranet
PING servidor2.centro.intranet (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.029 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.039 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=5 ttl=64 time=0.056 ms
64 bytes from localhost (127.0.0.1): icmp_seq=6 ttl=64 time=0.054 ms
64 bytes from localhost (127.0.0.1): icmp_seq=7 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=8 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=9 ttl=64 time=0.040 ms
64 bytes from localhost (127.0.0.1): icmp_seq=10 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=11 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=12 ttl=64 time=0.055 ms
64 bytes from localhost (127.0.0.1): icmp_seq=13 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=14 ttl=64 time=0.079 ms
64 bytes from localhost (127.0.0.1): icmp_seq=15 ttl=64 time=0.042 ms
64 bytes from localhost (127.0.0.1): icmp_seq=16 ttl=64 time=0.044 ms
64 bytes from localhost (127.0.0.1): icmp_seq=17 ttl=64 time=0.036 ms
^C
--- servidor2.centro.intranet ping statistics ---
17 packets transmitted, 17 received, 0% packet loss, time 16382ms
rtt min/avg/max/mdev = 0.029/0.042/0.079/0.012 ms
```

Activar los módulos necesarios para ejecutar php y acceder a mysql

Tenemos que instalar Apache, PHP y MYSQL con este comando

```
sudo apt install apache2 mysql-server php libapache2-mod-php php-mysql php-gd php-xml  
php-mbstring -y
```

```
64 bytes from localhost (127.0.0.1): icmp_seq=31 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=32 ttl=64 time=0.059 ms
64 bytes from localhost (127.0.0.1): icmp_seq=33 ttl=64 time=0.034 ms
64 bytes from localhost (127.0.0.1): icmp_seq=34 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=35 ttl=64 time=0.037 ms
^Z
[1]+  Detenido      ping centro.intranet
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ ping servidor2.centro.intranet
PING servidor2.centro.intranet (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.029 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.039 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=5 ttl=64 time=0.056 ms
64 bytes from localhost (127.0.0.1): icmp_seq=6 ttl=64 time=0.054 ms
64 bytes from localhost (127.0.0.1): icmp_seq=7 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=8 ttl=64 time=0.037 ms
64 bytes from localhost (127.0.0.1): icmp_seq=9 ttl=64 time=0.040 ms
64 bytes from localhost (127.0.0.1): icmp_seq=10 ttl=64 time=0.038 ms
64 bytes from localhost (127.0.0.1): icmp_seq=11 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=12 ttl=64 time=0.055 ms
64 bytes from localhost (127.0.0.1): icmp_seq=13 ttl=64 time=0.036 ms
64 bytes from localhost (127.0.0.1): icmp_seq=14 ttl=64 time=0.079 ms
64 bytes from localhost (127.0.0.1): icmp_seq=15 ttl=64 time=0.042 ms
64 bytes from localhost (127.0.0.1): icmp_seq=16 ttl=64 time=0.044 ms
64 bytes from localhost (127.0.0.1): icmp_seq=17 ttl=64 time=0.036 ms
^C
--- servidor2.centro.intranet ping statistics ---
17 packets transmitted, 17 received, 0% packet loss, time 16382ms
rtt min/avg/max/mdev = 0.029/0.042/0.079/0.012 ms
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo apt install apache2 mysql-server php libapache2-mod-php php-mysql php-gd
php-xml php-mbstring -y
```

```
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
info: Switch to mpm prefork for package libapache2-mod-php8.3
Module mpm_event disabled.
Enabling module mpm_prefork.
info: Executing deferred 'a2enmod php8.3' for package libapache2-mod-php8.3
Enabling module php8.3.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Configurando php8.3 (8.3.6-0ubuntu0.24.04.5) ...
Configurando libapache2-mod-php (2:8.3+93ubuntu2) ...
Configurando php (2:8.3+93ubuntu2) ...
Procesando disparadores para ufw (0.36.2-6) ...
Procesando disparadores para man-db (2.12.0-4build2) ...
Procesando disparadores para libc-bin (2.39-0ubuntu0.6) ...
Procesando disparadores para php8.3-cli (8.3.6-0ubuntu0.24.04.5) ...
Procesando disparadores para libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.5) ...
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$
```

Activo apache con
sudo systemctl enable apache2
sudo systemctl start apache2

Compruebo con sudo systemctl status apache2

The screenshot shows a terminal window titled "ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~". The terminal displays the following command sequence:

```
sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
sudo systemctl start apache2
sudo systemctl status apache2
```

The output shows the Apache2 service is active (running) since the current date and time, with a Main PID of 37811. The service is loaded and enabled. The terminal also lists several child processes (37811, 37814, 37815, 37816, 37817, 37818) under the apache2 service's CGroup.

```
apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Tue 2025-12-02 13:05:40 CET; 5min ago
     Docs: https://httpd.apache.org/docs/2.4/
          Main PID: 37811 (apache2)
             Tasks: 6 (limit: 9435)
            Memory: 12.5M (peak: 13.0M)
              CPU: 105ms
            CGroup: /system.slice/apache2.service
                    ├─37811 /usr/sbin/apache2 -k start
                    ├─37814 /usr/sbin/apache2 -k start
                    ├─37815 /usr/sbin/apache2 -k start
                    ├─37816 /usr/sbin/apache2 -k start
                    ├─37817 /usr/sbin/apache2 -k start
                    └─37818 /usr/sbin/apache2 -k start

dic 02 13:05:40 ivan-Standard-PC-i440FX-PIIX-1996 systemd[1]: Starting apache2.service - The Apache HTTP Server...
dic 02 13:05:40 ivan-Standard-PC-i440FX-PIIX-1996 apachectl[37810]: AH00558: apache2: Could not reliably determine the S
dic 02 13:05:40 ivan-Standard-PC-i440FX-PIIX-1996 systemd[1]: Started apache2.service - The Apache HTTP Server.

lines 1-19/19 (END)
```

Instalada la pila LAMP

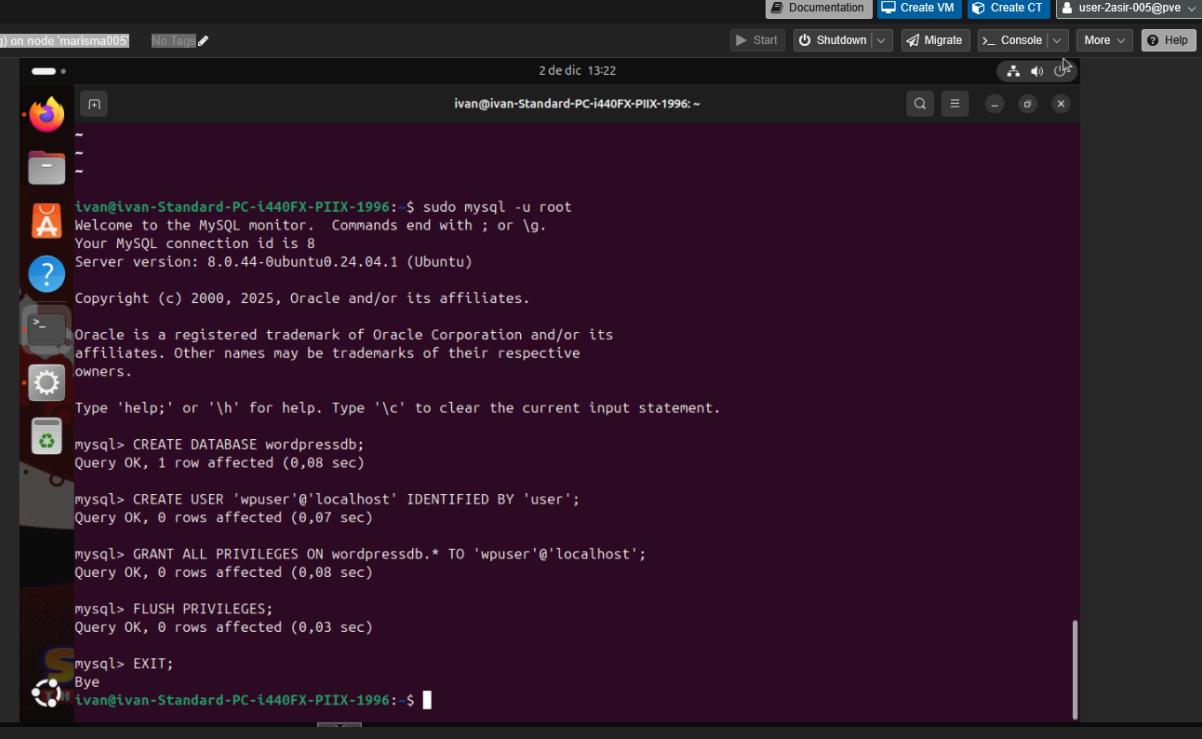
Instala y configura wordpress

Lo instalaremos en el dominio centro.intranet

Primero creamos la base de datos dentro de MySQL con

```
CREATE DATABASE wordpressdb;
CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'user';
GRANT ALL PRIVILEGES ON wordpressdb.* TO 'wpuser'@'localhost';
FLUSH PRIVILEGES;
```

EXIT;



ivan@ivan-Standard-PC-i440FX-PIIX-1996:~\$ sudo mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.44-0ubuntu0.24.04.1 (Ubuntu)

Copyright (c) 2000, 2025, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpressdb;
Query OK, 1 row affected (0,08 sec)

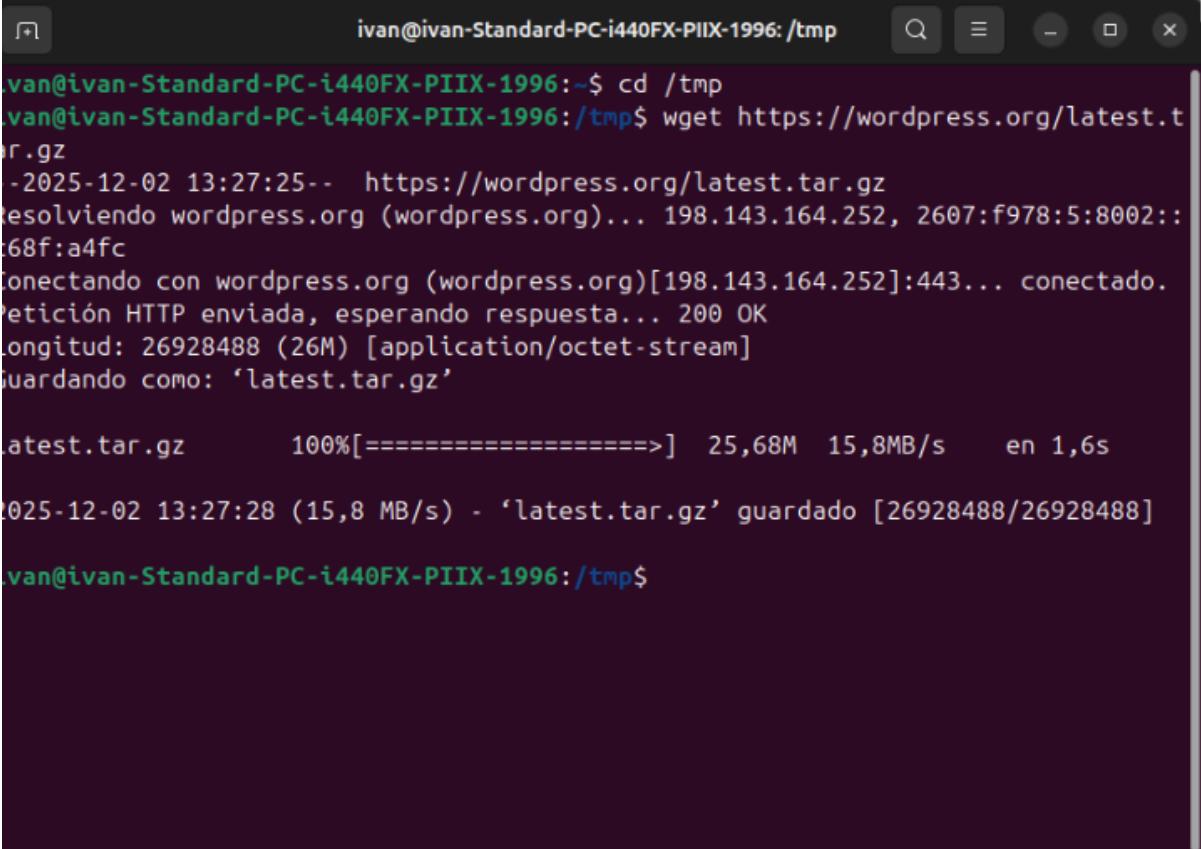
mysql> CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'user';
Query OK, 0 rows affected (0,07 sec)

mysql> GRANT ALL PRIVILEGES ON wordpressdb.* TO 'wpuser'@'localhost';
Query OK, 0 rows affected (0,08 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,03 sec)

mysql> EXIT;
Bye
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~\$

Instamos wordpress



```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~/tmp$ cd /tmp  
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ wget https://wordpress.org/latest.tar.gz  
--2025-12-02 13:27:25-- https://wordpress.org/latest.tar.gz  
Resolviendo wordpress.org (wordpress.org)... 198.143.164.252, 2607:f978:5:8002::168f:a4fc  
Conectando con wordpress.org (wordpress.org)[198.143.164.252]:443... conectado.  
Petición HTTP enviada, esperando respuesta... 200 OK  
Longitud: 26928488 (26M) [application/octet-stream]  
Guardando como: 'latest.tar.gz'  
  
latest.tar.gz      100%[=====] 25,68M 15,8MB/s en 1,6s  
2025-12-02 13:27:28 (15,8 MB/s) - 'latest.tar.gz' guardado [26928488/26928488]  
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$
```

Descomprimimos

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ tar -xzvf latest.tar.gz
wordpress/
wordpress/index.php
wordpress/license.txt
wordpress/readme.html
wordpress/wp-activate.php
wordpress/wp-admin/
wordpress/wp-admin/about.php
wordpress/wp-admin/admin-ajax.php
wordpress/wp-admin/admin-footer.php
wordpress/wp-admin/admin-functions.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/admin-post.php
wordpress/wp-admin/admin.php
wordpress/wp-admin/async-upload.php
wordpress/wp-admin/authorize-application.php
wordpress/wp-admin/comment.php
wordpress/wp-admin/contribute.php
wordpress/wp-admin/credits.php
wordpress/wp-admin/css/
wordpress/wp-admin/css/about-rtl.css
wordpress/wp-admin/css/about-rtl.min.css
wordpress/wp-admin/css/about.css
wordpress/wp-admin/css/about.min.css
```

Movemos y le cambiamos los permisos

```
wordpress/wp-links-opml.php
wordpress/wp-load.php
wordpress/wp-login.php
wordpress/wp-mail.php
wordpress/wp-settings.php
wordpress/wp-signup.php
wordpress/wp-trackback.php
wordpress/xmlrpc.php
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo mv wordpress /var/www/ce centro
[sudo] contraseña para ivan:
Lo siento, pruebe otra vez.
[sudo] contraseña para ivan:
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chown -R www-data:www-data /va r/www/centro
chown: no se puede acceder a '/var/www/centro': No existe el archivo o el directo rio
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chown -R www-data:www-data /va r/www/centro
chown: no se puede acceder a '/var/www/centro': No existe el archivo o el directo rio
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chown -R www-data:www-data /va r/www/ce centro
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chmod -R 755 /var/www/ce centro
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$
```

The screenshot shows a terminal window titled "ivan@ivan-Standard-PC-i440FX-PIIX-1996: /tmp". The command being run is "nano /etc/apache2/sites-available/cecentro.conf~". The content of the file is as follows:

```
GNU nano 7.2      /etc/apache2/sites-available/cecentro.conf~ *
<VirtualHost *:80>
    ServerName centro.intranet
    DocumentRoot /var/www/cecentro
    <Directory /var/www/cecentro>
        AllowOverride All
        Require all granted
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/cecentro_error.log
    CustomLog ${APACHE_LOG_DIR}/cecentro_access.log combined
</VirtualHost>
```

At the bottom of the terminal window, there is a menu bar with various keyboard shortcuts:

- ^G Ayuda
- ^O Guardar
- ^W Buscar
- ^K Cortar
- ^T Ejecutar
- ^C Ubicación
- ^X Salir
- ^R Leer fich.
- ^V Reemplazar
- ^U Pegar
- ^J Justificar
- ^/ Ir a linea

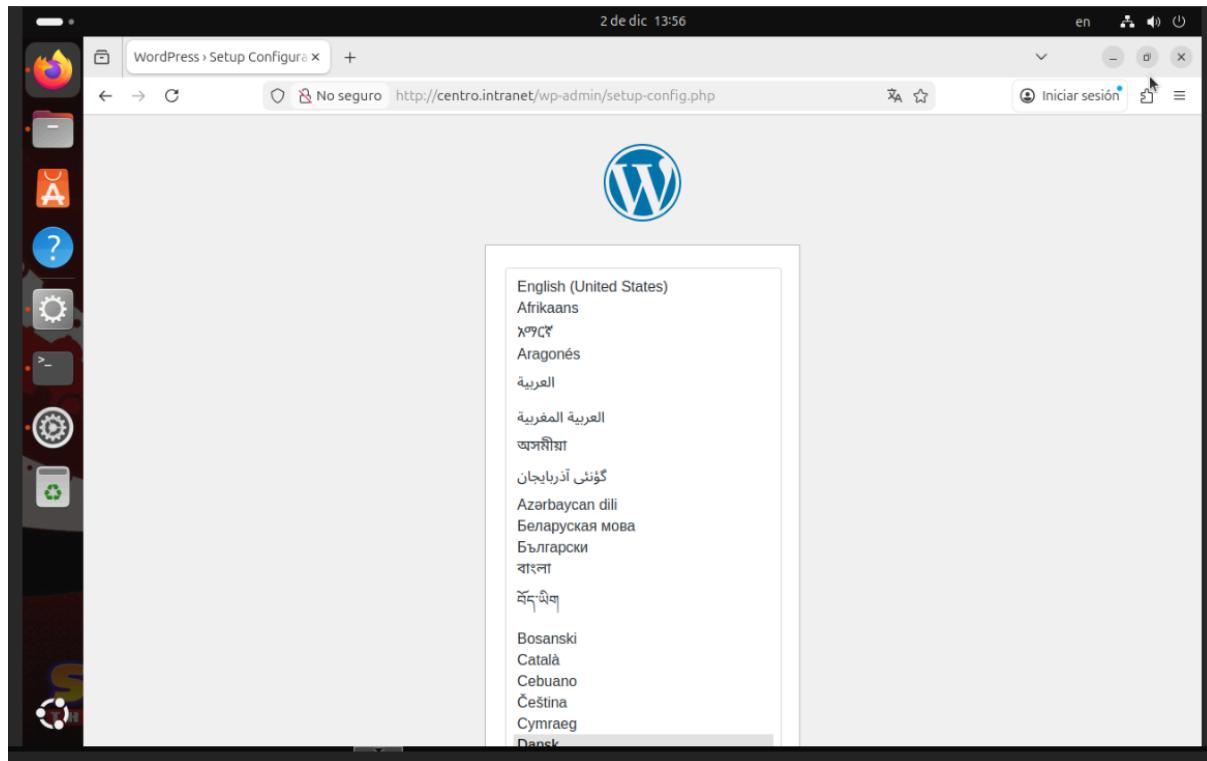
Configuramos el virtualhost con esta dirección

The screenshot shows a terminal window titled "ivan@ivan-Standard-PC-i440FX-PIIX-1996: /tmp". The user has moved a "wordpress" directory to "/var/www/centro" and changed its ownership to "www-data:www-data". They then edited the Apache configuration file at "/etc/apache2/sites-available/cecentro.conf" and enabled the site with "a2ensite centro.conf". Finally, they ran "systemctl reload apache2" to apply the changes.

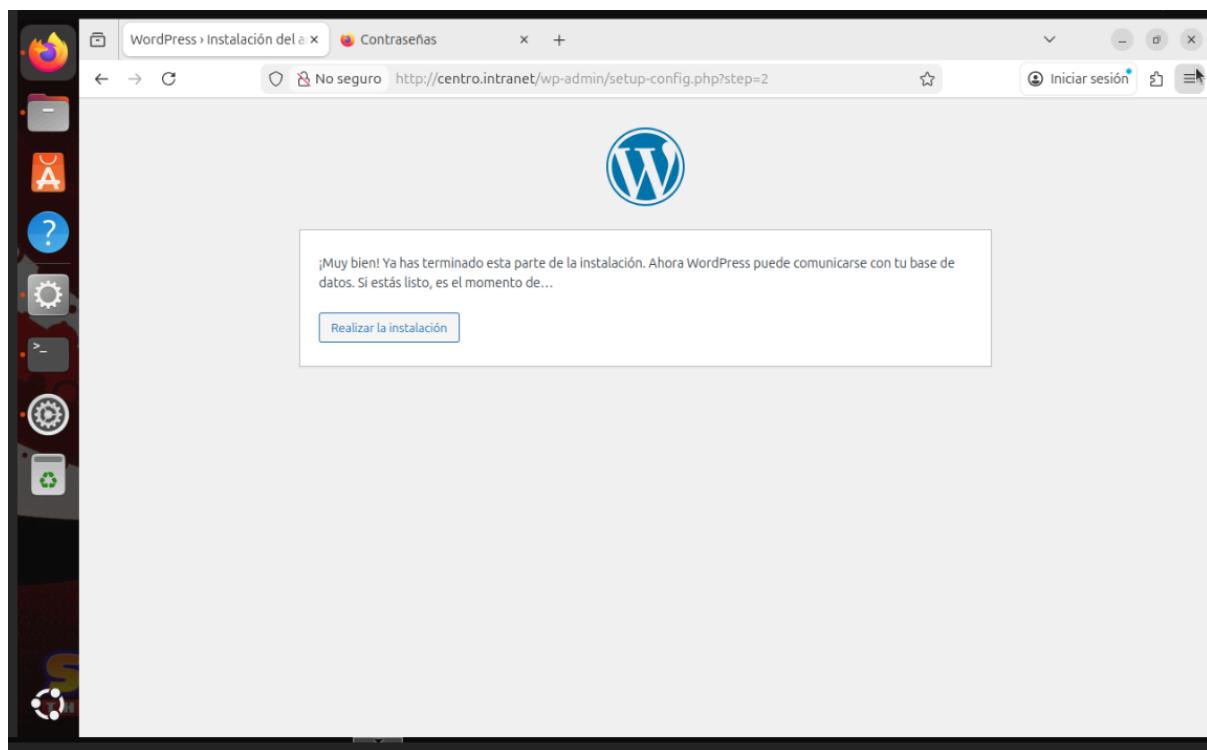
```
wordress/wp-links-opml.php
wordress/wp-load.php
wordress/wp-login.php
wordress/wp-mail.php
wordress/wp-settings.php
wordress/wp-signup.php
wordress/wp-trackback.php
wordress/xmlrpc.php
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo mv wordpress /var/www/centro
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chown -R www-data:www-data /var/www/centro
chown: no se puede acceder a '/var/www/centro': No existe el archivo o el directorio
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chown -R www-data:www-data /var/www/centro
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo chmod -R 755 /var/www/centro
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo nano /etc/apache2/sites-available/cecentro.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ sudo a2ensite centro.conf
Enabling site centro.
To activate the new configuration, you need to run:
  systemctl reload apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$ systemctl reload apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:/tmp$
```

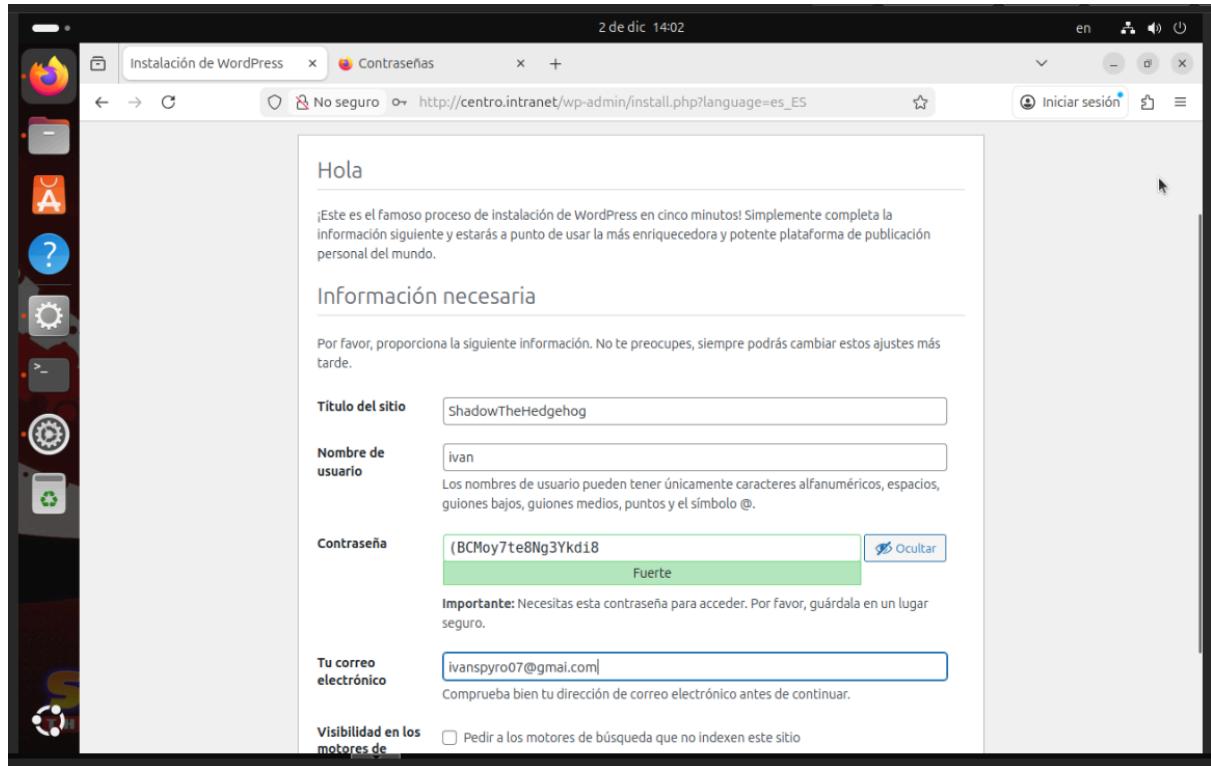
Habilitamos el sitio con el modulo a2ensite y por ultimo recargamos apache

Entramos al wordpress con centro.intranet

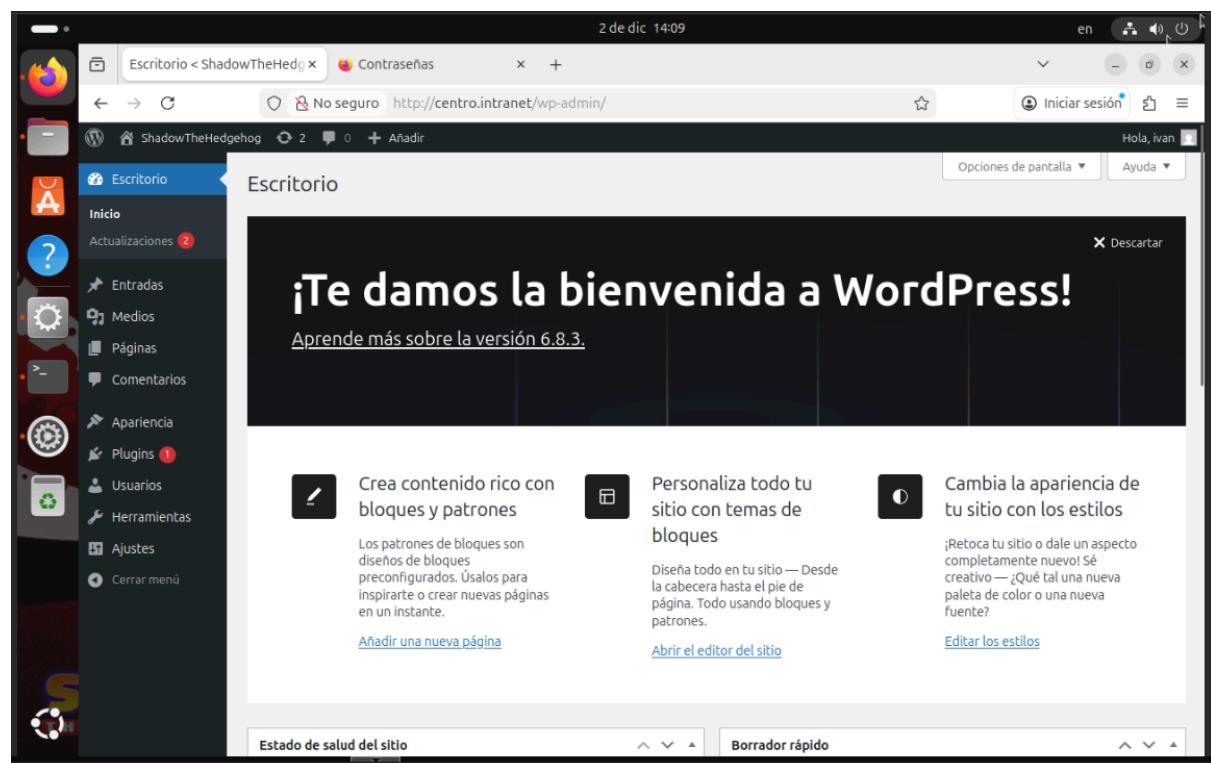


Luego metemos el nombre de la base de datos y el usuario y contraseña



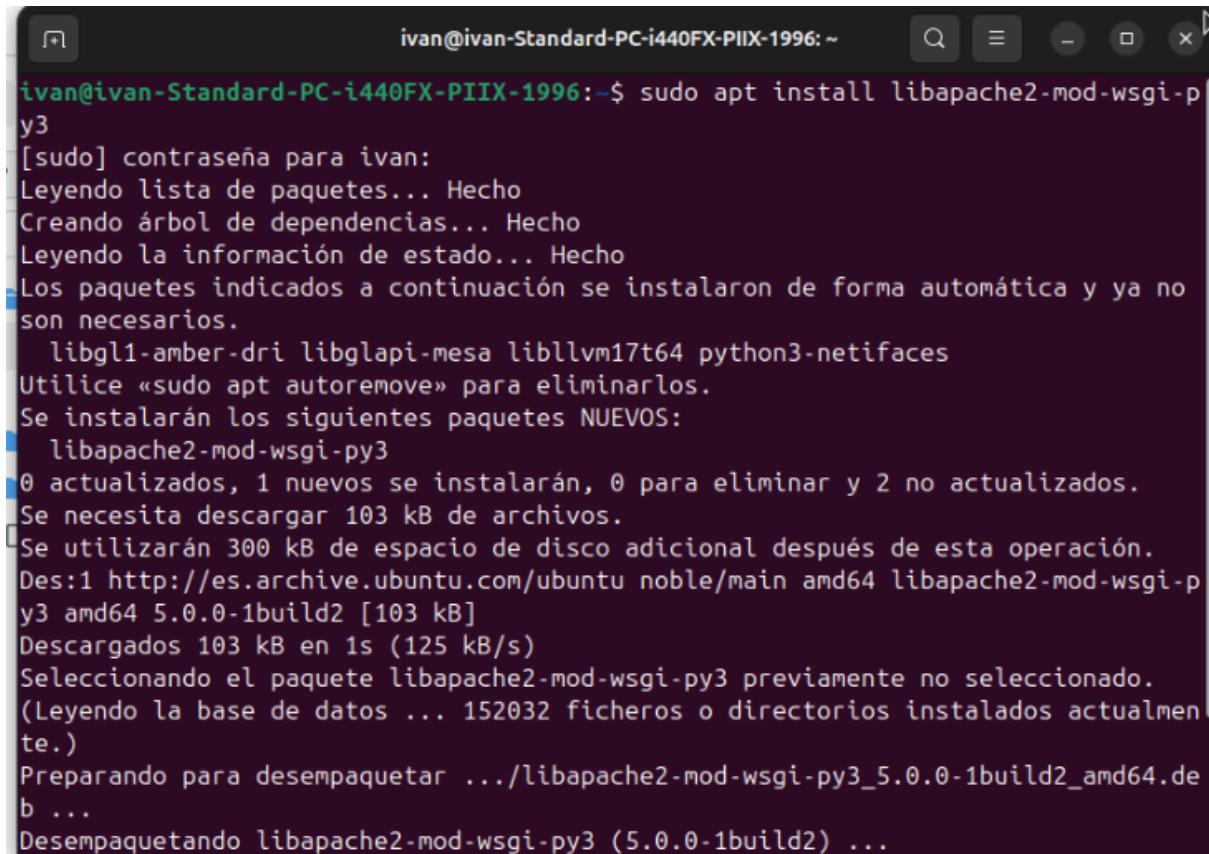


Estamos en wordpress



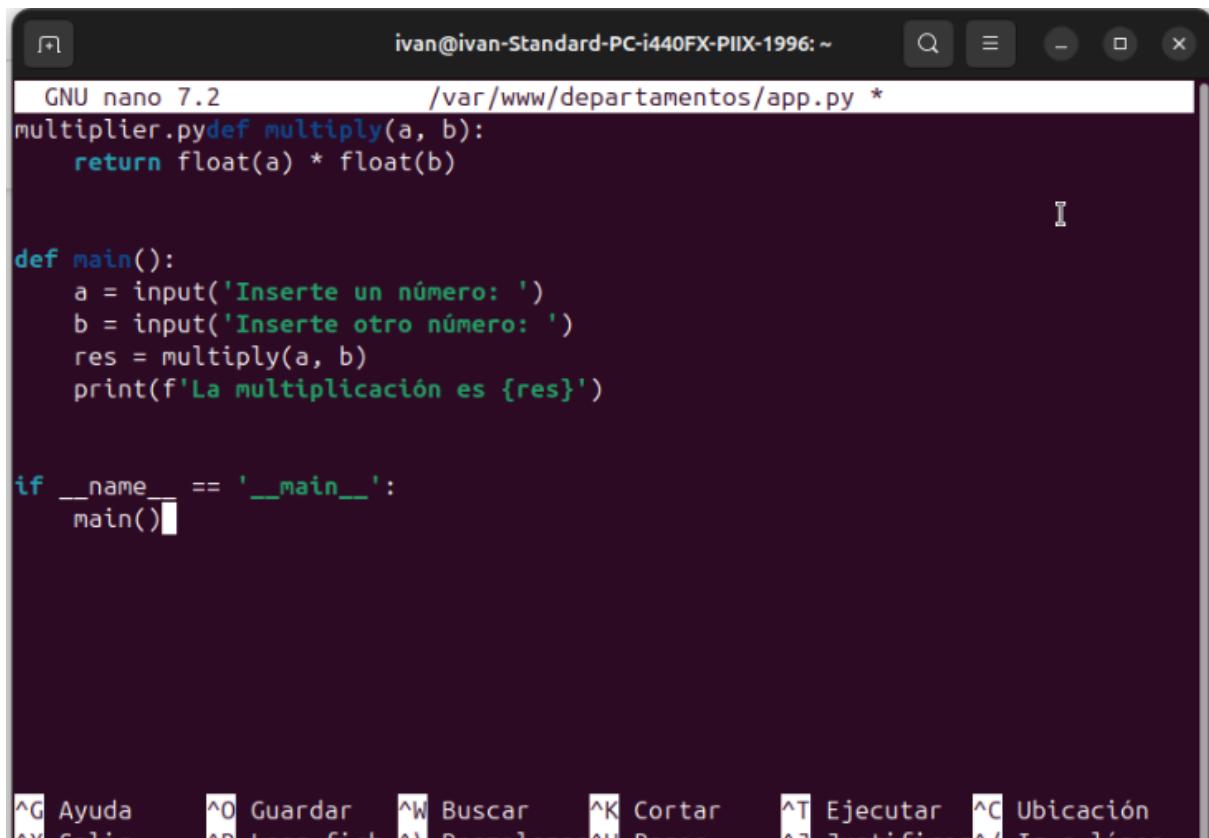
Activar el módulo "wsgi" para permitir la ejecución de aplicaciones Python

Lo instalamos



```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo apt install libapache2-mod-wsgi-py3
[sudo] contraseña para ivan:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Los paquetes indicados a continuación se instalaron de forma automática y ya no
son necesarios.
  libgl1-amber-dri libglapi-mesa libllvm17t64 python3-netifaces
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes NUEVOS:
  libapache2-mod-wsgi-py3
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 2 no actualizados.
Se necesita descargar 103 kB de archivos.
Se utilizarán 300 kB de espacio de disco adicional después de esta operación.
Des:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libapache2-mod-wsgi-py3 amd64 5.0.0-1build2 [103 kB]
Descargados 103 kB en 1s (125 kB/s)
Seleccionando el paquete libapache2-mod-wsgi-py3 previamente no seleccionado.
(Leyendo la base de datos ... 152032 ficheros o directorios instalados actualmen
te.)
Preparando para desempaquetar .../libapache2-mod-wsgi-py3_5.0.0-1build2_amd64.de
b ...
Desempaquetando libapache2-mod-wsgi-py3 (5.0.0-1build2) ...
```

Entramos a la carpeta en la que queremos meter el script y metemos uno de ejemplo



```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~/var/www/departamentos$ nano app.py
GNU nano 7.2          /var/www/departamentos/app.py *
multiplier.pydef multiply(a, b):
    return float(a) * float(b)

def main():
    a = input('Inserte un número: ')
    b = input('Inserte otro número: ')
    res = multiply(a, b)
    print(f'La multiplicación es {res}')

if __name__ == '__main__':
    main()

^G Ayuda      ^O Guardar      ^W Buscar      ^K Cortar      ^T Ejecutar      ^C Ubicación
^X Salir      ^R Leer fich.  ^\ Reemplazar  ^U Pegar       ^J Justificar ^/ Ir a línea
```

- Crea y despliega una pequeña aplicación python para comprobar que funciona correctamente.

```

libgl1-amber-dri libglapi-mesa libllvm17t64 python3-netifaces
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes NUEVOS:
  libapache2-mod-wsgi-py3
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 2 no actualizados.
Se necesita descargar 103 kB de archivos.
Se utilizarán 300 kB de espacio de disco adicional después de esta operación.
Des:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libapache2-mod-wsgi-py3 amd64 5.0.0-1build2 [103 kB]
Descargados 103 kB en 1s (125 kB/s)
Seleccionando el paquete libapache2-mod-wsgi-py3 previamente no seleccionado.
(Leyendo la base de datos ... 152032 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../libapache2-mod-wsgi-py3_5.0.0-1build2_amd64.deb ...
Desempaquetando libapache2-mod-wsgi-py3 (5.0.0-1build2) ...
Configurando libapache2-mod-wsgi-py3 (5.0.0-1build2) ...
apache2_invoke: Enable module wsgi
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo mkdir /var/www/departamentos
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ nano /var/www/departamentos/app.py
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /var/www/departamentos/app.py
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /etc/apache2/sites-available
/departamentos.conf

```

En el virtualhost especificamos el nombre de dominio así como donde está su raíz, le decimos al módulo WSGI dónde se encuentra el script

```

GNU nano 7.2      /etc/apache2/sites-available/departamentos.conf *
<VirtualHost *:80>
    ServerName departamentos.centro.intranet
    DocumentRoot /var/www/departamentos

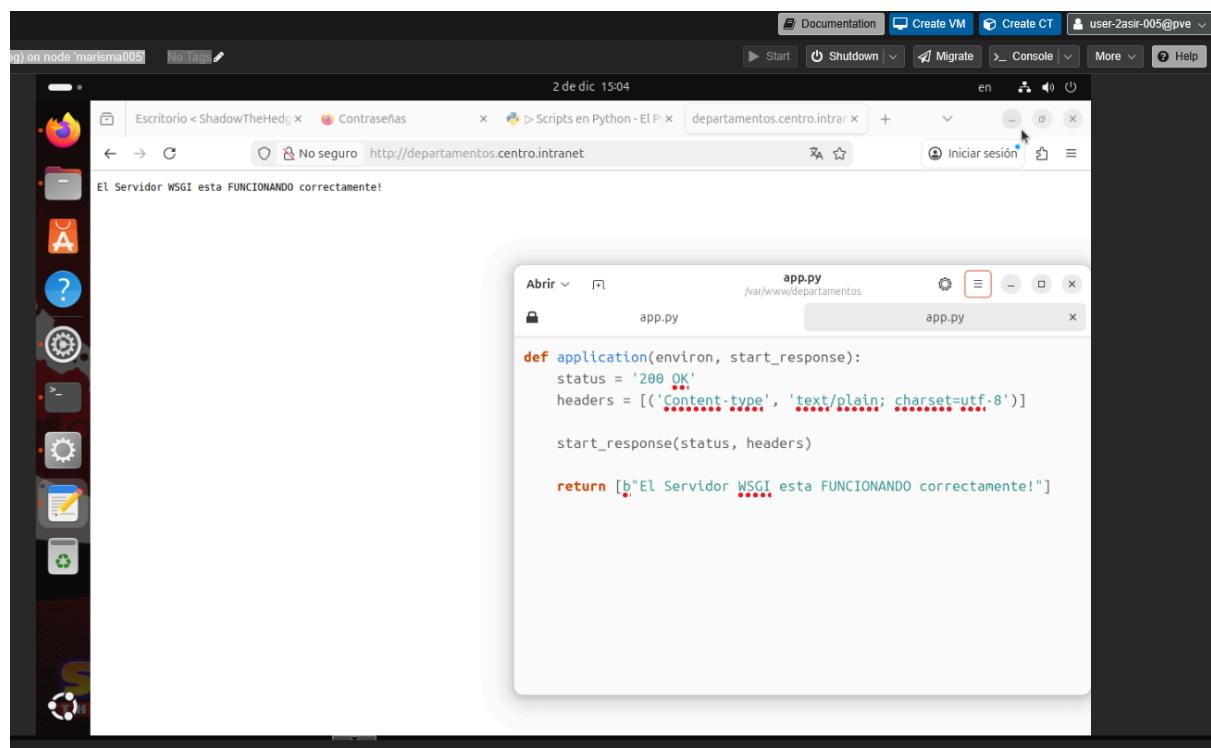
    # Config WSGI
    WSGIScriptAlias / /var/www/departamentos/app.py

    <Directory /var/www/departamentos>
        Require all granted
    </Directory>
</VirtualHost>

^G Ayuda      ^O Guardar      ^W Buscar      ^K Cortar      ^T Ejecutar      ^C Ubicación
^X Salir      ^R Leer fich.  ^\ Reemplazar  ^U Pegar       ^J Justificar ^/ Ir a línea

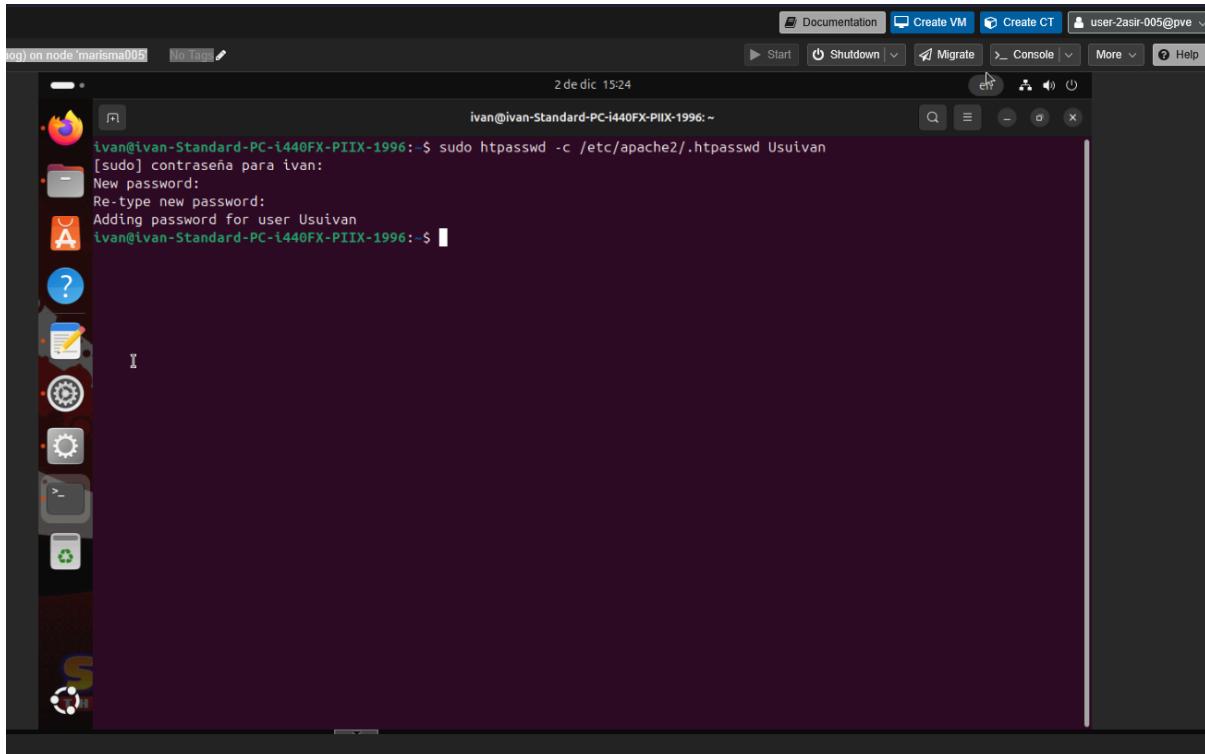
```

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~ Se utilizarán 300 kB de espacio de disco adicional después de esta operación.
Des:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libapache2-mod-wsgi-p
y3 amd64 5.0.0-1build2 [103 kB]
Descargados 103 kB en 1s (125 kB/s)
Seleccionando el paquete libapache2-mod-wsgi-py3 previamente no seleccionado.
(Leyendo la base de datos ... 152032 ficheros o directorios instalados actualmen
te.)
Preparando para desempaquetar .../libapache2-mod-wsgi-py3_5.0.0-1build2_amd64.de
b ...
Desempaquetando libapache2-mod-wsgi-py3 (5.0.0-1build2) ...
Configurando libapache2-mod-wsgi-py3 (5.0.0-1build2) ...
apache2_invoke: Enable module wsgi
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo mkdir /var/www/departamentos
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ nano /var/www/departamentos/app.py
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /var/www/departamentos/app.p
y
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /etc/apache2/sites-available
/departamentos.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo a2ensite departamentos.conf
Enabling site departamentos.
To activate the new configuration, you need to run:
    systemctl reload apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ systemctl reload apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$
```

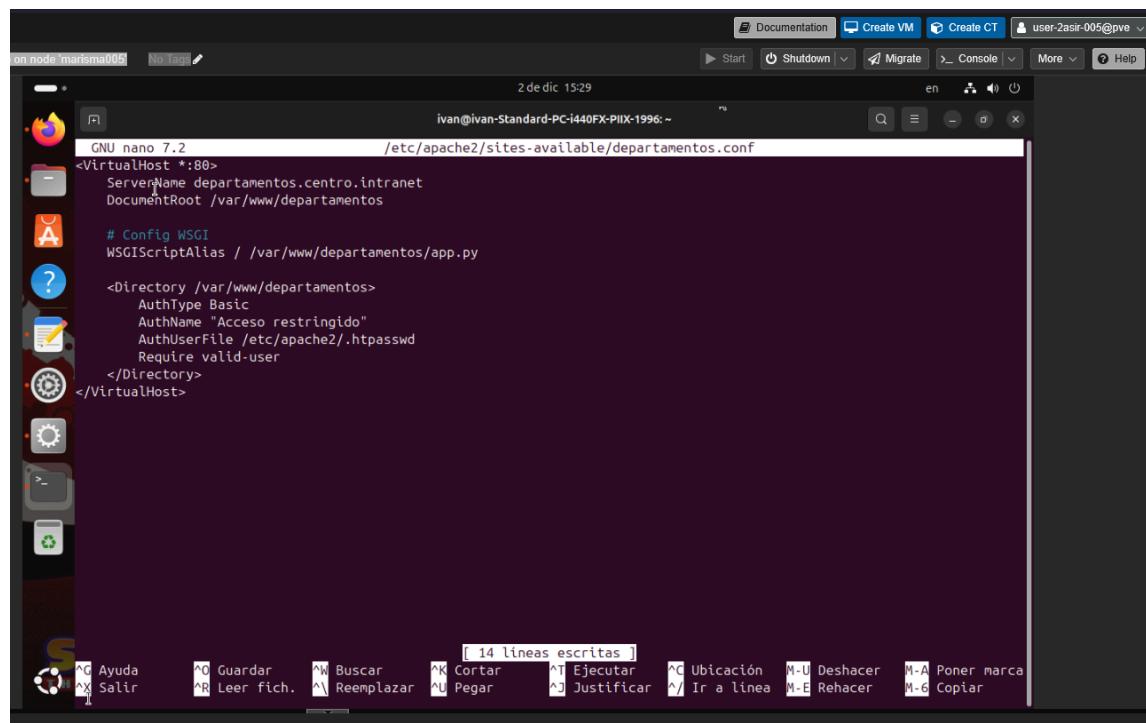


Adicionalmente protegeremos el acceso a la aplicación python mediante autenticación

Establecemos una contraseña y un usuario



```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo htpasswd -c /etc/apache2/.htpasswd Usuivan
[sudo] contraseña para ivan:
New password:
Re-type new password:
Adding password for user Usuivan
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$
```



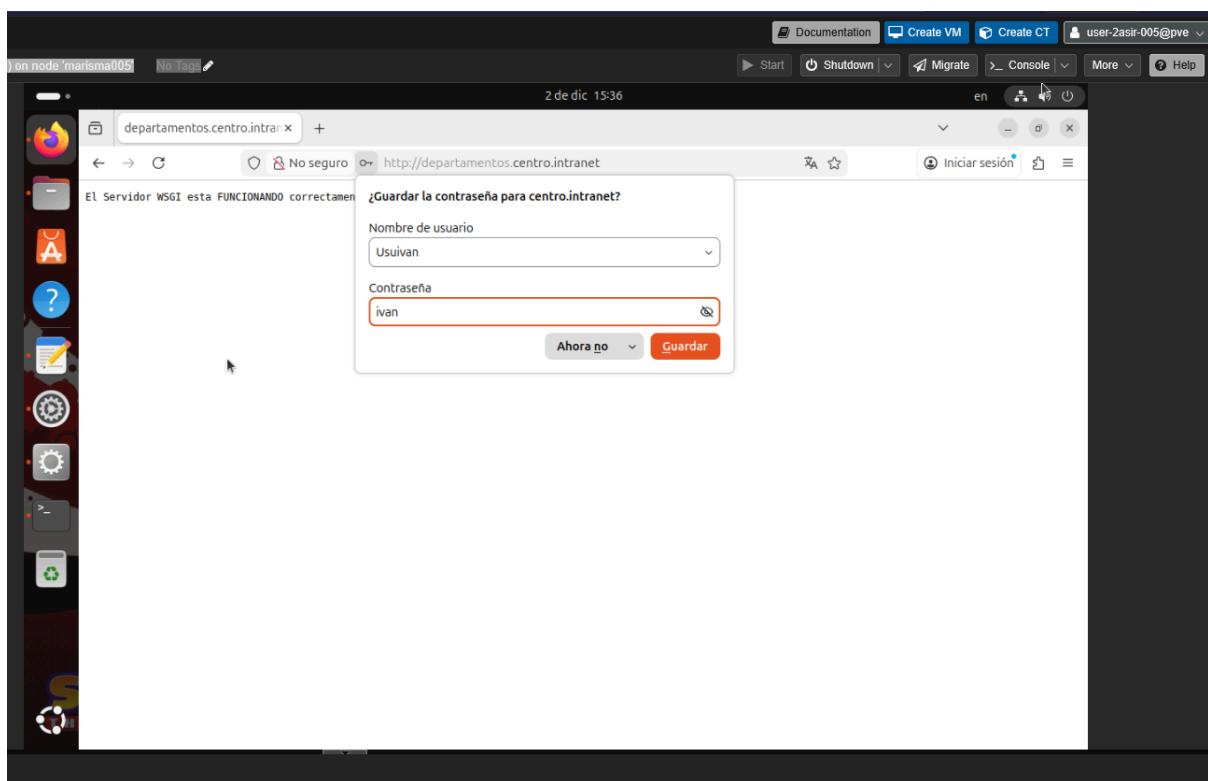
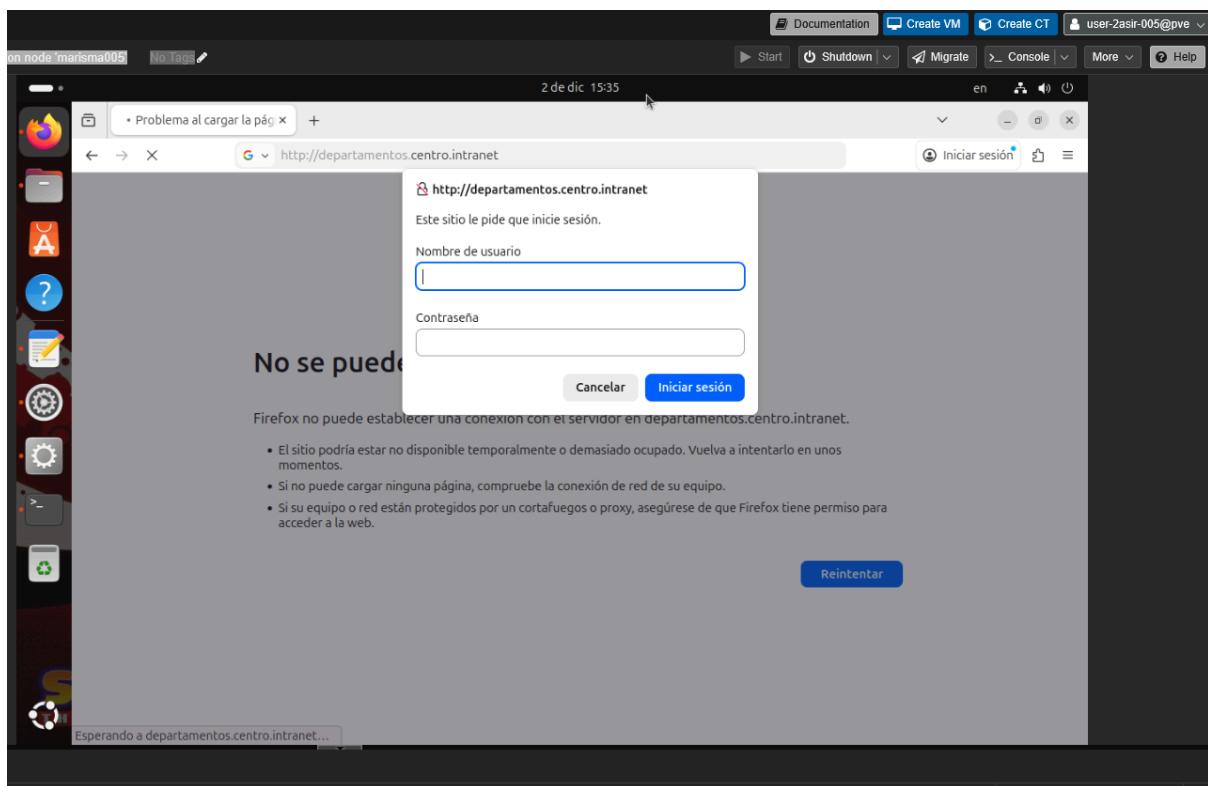
```
GNU nano 7.2          /etc/apache2/sites-available/departamentos.conf
<VirtualHost *:80>
    ServerName departamentos.centro.intranet
    DocumentRoot /var/www/departamentos

    # Config WSGI
    WSGIScriptAlias / /var/www/departamentos/app.py

    <Directory /var/www/departamentos>
        AuthType Basic
        AuthName "Acceso restringido"
        AuthUserFile /etc/apache2/.htpasswd
        Require valid-user
    </Directory>
</VirtualHost>
```

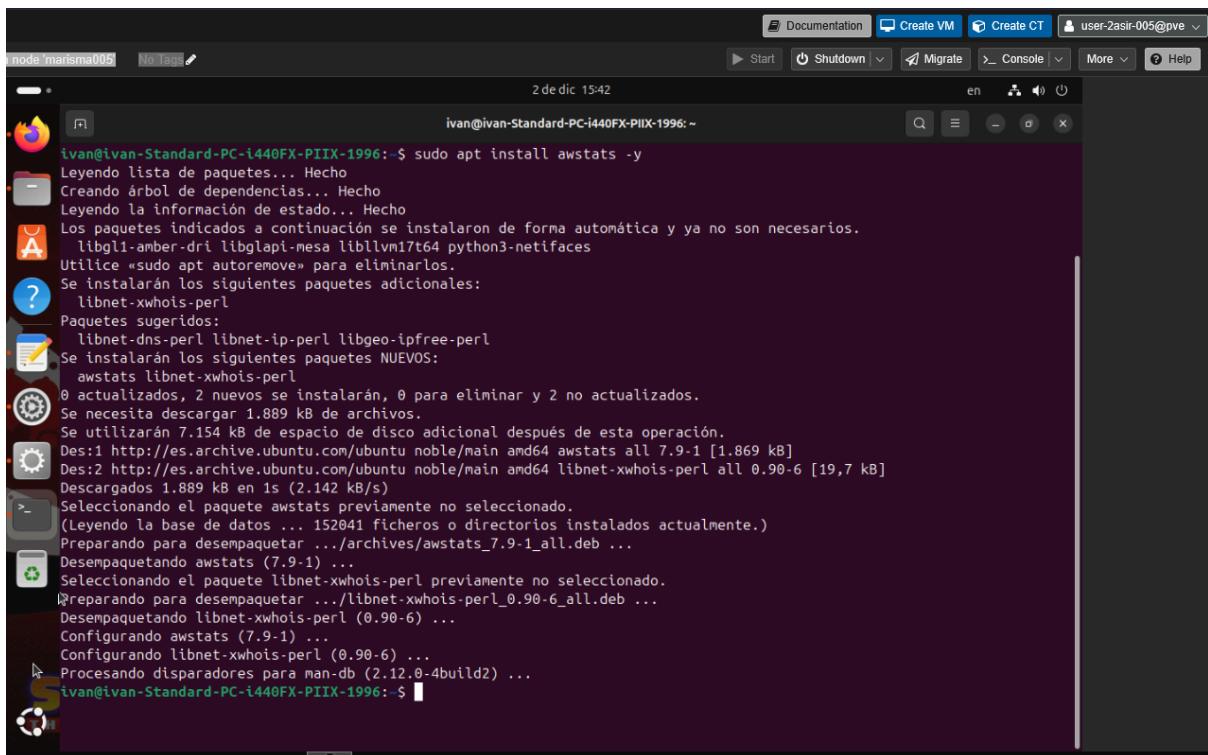
cambiamos el require all por lo que aparece en la captura

Como se puede comprobar ahora pide iniciar sesion



Instala y configura awstat

Instalamos con sudo apt install awstats -y

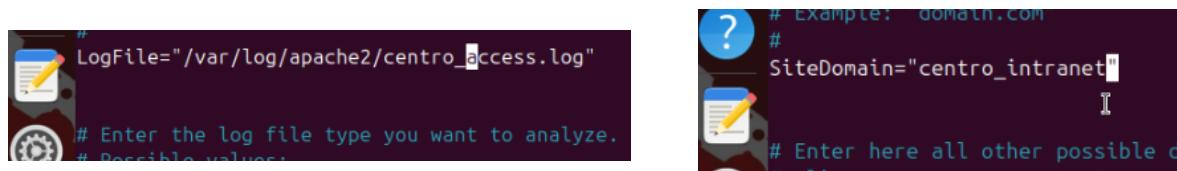


```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo apt install awstats -y
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Los paquetes indicados a continuación se instalaron de forma automática y ya no son necesarios.
  libgl-amber-dri libglapi-mesa liblvm17t64 python3-netifaces
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes adicionales:
  libnet-xwhois-perl
Paquetes sugeridos:
  libnet-dns-perl libnet-ip-perl libgeo-ipfree-perl
Se instalarán los siguientes paquetes NUEVOS:
  awstats libnet-xwhois-perl
0 actualizados, 2 nuevos se instalarán, 0 para eliminar y 2 no actualizados.
Se necesita descargar 1.889 kB de archivos.
Se utilizarán 7.154 kB de espacio de disco adicional después de esta operación.
Des:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 awstats all 7.9-1 [1.869 kB]
Des:2 http://es.archive.ubuntu.com/ubuntu noble/main amd64 libnet-xwhois-perl all 0.90-6 [19,7 kB]
Descargados 1.889 kB en 1s (2.142 kB/s)
Seleccionando el paquete awstats previamente no seleccionado.
(Leyendo la base de datos ... 152041 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../archives/awstats_7.9-1_all.deb ...
Desempaquetando awstats (7.9-1) ...
Seleccionando el paquete libnet-xwhois-perl previamente no seleccionado.
Preparando para desempaquetar .../libnet-xwhois-perl_0.90-6_all.deb ...
Desempaquetando libnet-xwhois-perl (0.90-6) ...
Configurando awstats (7.9-1) ...
Configurando libnet-xwhois-perl (0.90-6) ...
Configurando disparadores para man-db (2.12.0-4build2) ...
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$
```

Con estos comandos configuraremos el awstats

```
$ sudo cp /etc/awstats/awstats.conf /etc/awstats/awstats.centro.intranet.conf
$ sudo nano /etc/awstats/awstats.centro.intranet.conf
```

Modificamos la linea Log Acess y la linea Site Domain



Habilitamos CGI en Apache para que se puedan ver las graficas

```
Procesando disparadores para man-db (2.12.0-4build2) ...
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo cp /etc/awstats/awstats.conf /etc/awstats/awstats.centro.intranet.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /etc/awstats/awstats.centro.intranet.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo a2enmod cgi
Enabling module cgi.
To activate the new configuration, you need to run:
  systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo a2enconf serve-cgi-bin
Conf serve-cgi-bin already enabled
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$
```

```

2 de dic 15:58
ivan@ivan-Standard-PC-i440FX-PIIX-1996: ~

Desempaquetando awstats (7.9-1) ...
Seleccionando el paquete libnet-xwhois-perl previamente no seleccionado.
Preparando para desempaquetar .../libnet-xwhois-perl_0.90-6_all.deb ...
Desempaquetando libnet-xwhois-perl (0.90-6) ...
Configurando awstats (7.9-1) ...
Configurando libnet-xwhois-perl (0.90-6) ...
Procesando disparadores para man-db (2.12.0-4build2) ...
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo cp /etc/awstats/awstats.conf /etc/awstats/awstats.centro.intranet.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo nano /etc/awstats/awstats.centro.intranet.conf
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo a2enmod cgi
Enabling module cgi.
To activate the new configuration, you need to run:
    systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo a2enconf serve-cgi-bin
Conf serve-cgi-bin already enabled
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo systemctl restart apache2
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $ sudo /usr/lib/cgi-bin/awstats.pl -config=centro.intranet -update
Create/Update database for config "/etc/awstats/awstats.centro.intranet.conf" by AWStats version 7.9 (build 20230108)
From data in log file "/var/log/apache2/centro_access.log"...
Phase 1 : First bypass old records, searching new record...
Searching new records from beginning of log file...
Phase 2 : Now process new records (Flush history on disk after 20000 hosts)...
Jumped lines in file: 0
Parsed lines in file: 149
Found 0 dropped records,
Found 0 comments,
Found 0 blank records,
Found 0 corrupted records,
Found 0 old records,
Found 149 new qualified records.
ivan@ivan-Standard-PC-i440FX-PIIX-1996: $
```

Generamos estadísticas iniciales

Introduciendo la dirección podemos entrar y comprobar que nos está funcionando

Periodo mostrado	Mes Dic 2025	Número de visitas	Páginas	Solicitudes	Tráfico
Primer visita	02 Dic 2025 - 13:55	1	(1 visitas/visitante)	74 (74 Páginas/Visita)	138 (138 Solicitudes/Visita) 1.35 MB (1378.22 KB/Visita)
Última visita	02 Dic 2025 - 13:18				
Visitantes distintos	1				
Tráfico visto *					
Tráfico no visto *		9		11	12.06 KB

* El tráfico "no visto" es tráfico generado por robots, gusanos o respuestas de código especial de estado HTTP.

Mes	Visitantes distintos	Número de visitas	Páginas	Solicitudes	Tráfico
Ene 2025	0	0	0	0	0
Feb 2025	0	0	0	0	0
Mar 2025	0	0	0	0	0
Abr 2025	0	0	0	0	0
May 2025	0	0	0	0	0
Jun 2025	0	0	0	0	0
Jul 2025	0	0	0	0	0
Aug 2025	0	0	0	0	0
Sep 2025	0	0	0	0	0
Oct 2025	0	0	0	0	0
Nov 2025	0	0	0	0	0
Dic 2025	1	74	138	1.35 MB	

Instala un segundo servidor de tu elección (nginx, lighttpd) bajo el dominio “servidor2.centro.intranet”. Debes configurarlo para que sirva en el puerto 8080 y haz los cambios necesarios para ejecutar php. Instala phpmyadmin

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo apt install nginx php-fpm -y
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Los paquetes indicados a continuación se instalaron de forma automática y ya no
son necesarios.
  libgl1-amber-dri libglapi-mesa libllvm17t64 python3-netifaces
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes adicionales:
  nginx-common php8.3-fpm
Paquetes sugeridos:
  fcgiwrap nginx-doc php-pear
Se instalarán los siguientes paquetes NUEVOS:
  nginx nginx-common php-fpm php8.3-fpm
0 actualizados, 4 nuevos se instalarán, 0 para eliminar y 2 no actualizados.
Se necesita descargar 2.493 kB de archivos.
Se utilizarán 7.478 kB de espacio de disco adicional después de esta operación.
Des:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common
all 1.24.0-2ubuntu7.5 [43,4 kB]
Des:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1
.24.0-2ubuntu7.5 [520 kB]
Des:3 http://es.archive.ubuntu.com/ubuntu noble-updates/universe amd64 php8.3-fp
m amd64 8.3.6-0ubuntu0.24.04.5 [1.925 kB]
Des:4 http://es.archive.ubuntu.com/ubuntu noble/universe amd64 php-fpm all 2:8.3
```

Con la configuracion del nginx cambiamos unas cuantas cosas como el puerto usado, pasamos del 80 al 8080

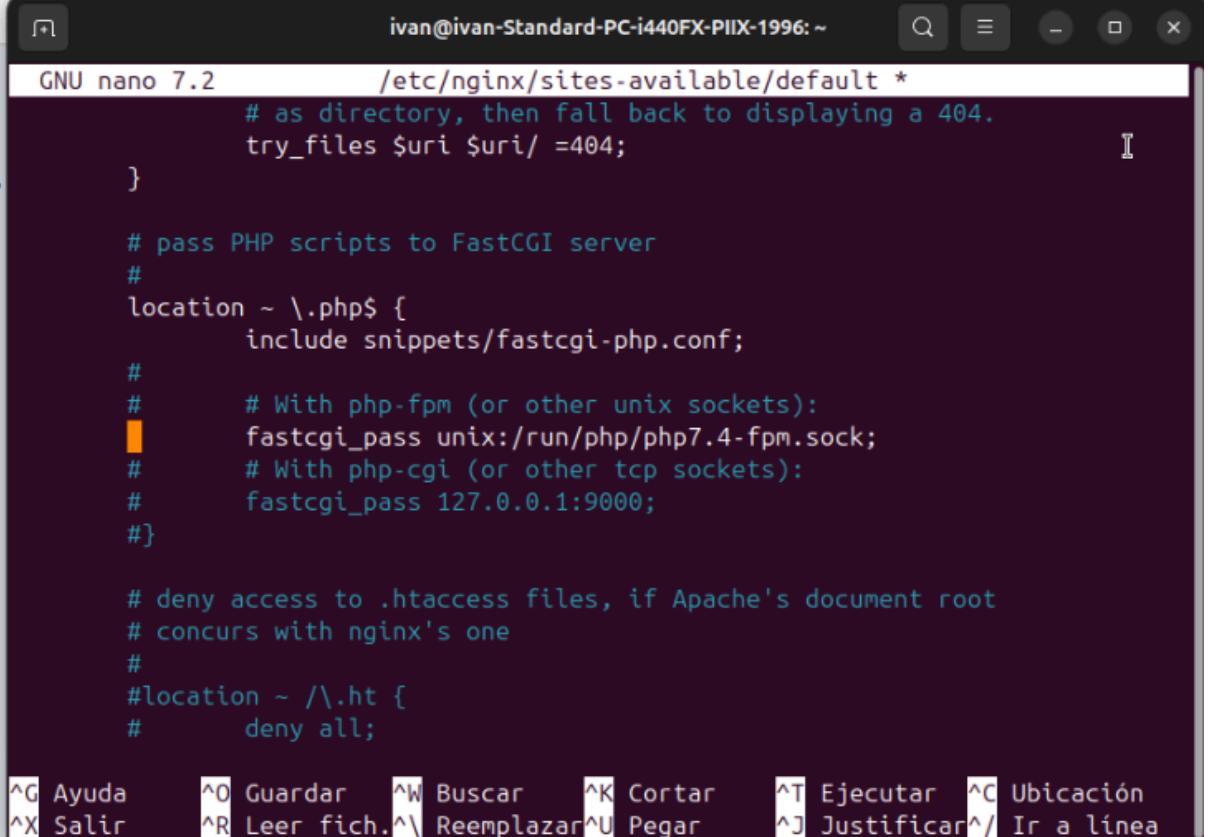
```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ nano /etc/nginx/sites-available/default
GNU nano 7.2
/etc/nginx/sites-available/default *
# available underneath a path with that package name, such as /drupal8.
#
# Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
##


# Default server configuration
#
server {
    listen 8080 default_server;
    listen [::]:8080 default_server;

    # SSL configuration
    #
    # listen 443 ssl default_server;
    # listen [::]:443 ssl default_server;
    #
    # Note: You should disable gzip for SSL traffic.
    # See: https://bugs.debian.org/773332
    #
    # Read up on ssl_ciphers to ensure a secure configuration.
```

^G Ayuda ^O Guardar ^W Buscar ^K Cortar ^T Ejecutar ^C Ubicación
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar ^J Justificar ^/ Ir a línea

Quitamos el location del php y el fastcgi como comentario



```
GNU nano 7.2          /etc/nginx/sites-available/default *
# as directory, then fall back to displaying a 404.
try_files $uri $uri/ =404;
}

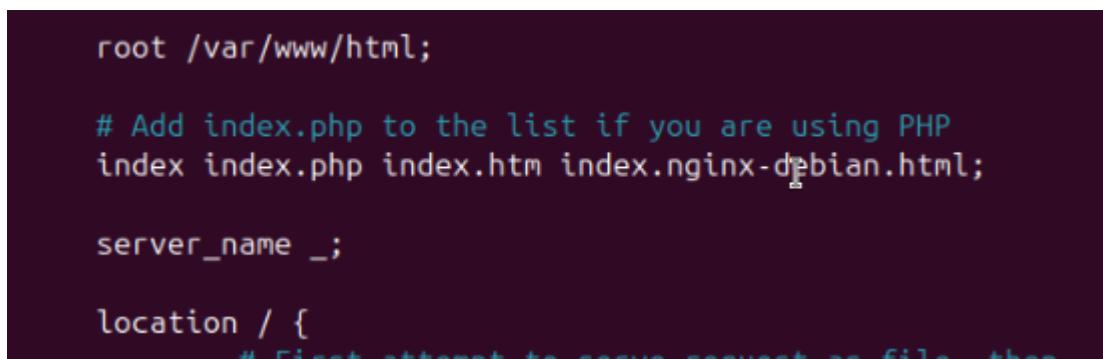
# pass PHP scripts to FastCGI server
#
location ~ \.php$ {
    include snippets/fastcgi-php.conf;
#
#       # With php-fpm (or other unix sockets):
#       fastcgi_pass unix:/run/php/php7.4-fpm.sock;
#       # With php-cgi (or other tcp sockets):
#       fastcgi_pass 127.0.0.1:9000;
}

# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
#
#location ~ /\.ht {
#    deny all;

^G Ayuda      ^O Guardar      ^W Buscar      ^K Cortar      ^T Ejecutar      ^C Ubicación
^X Salir      ^R Leer fich.  ^\ Reemplazar  ^U Pegar      ^J Justificar ^/ Ir a línea

```

Tambien cambiamos index html por index php



```
root /var/www/html;

# Add index.php to the list if you are using PHP
index index.php index.htm index.nginx-debian.html;

server_name _;

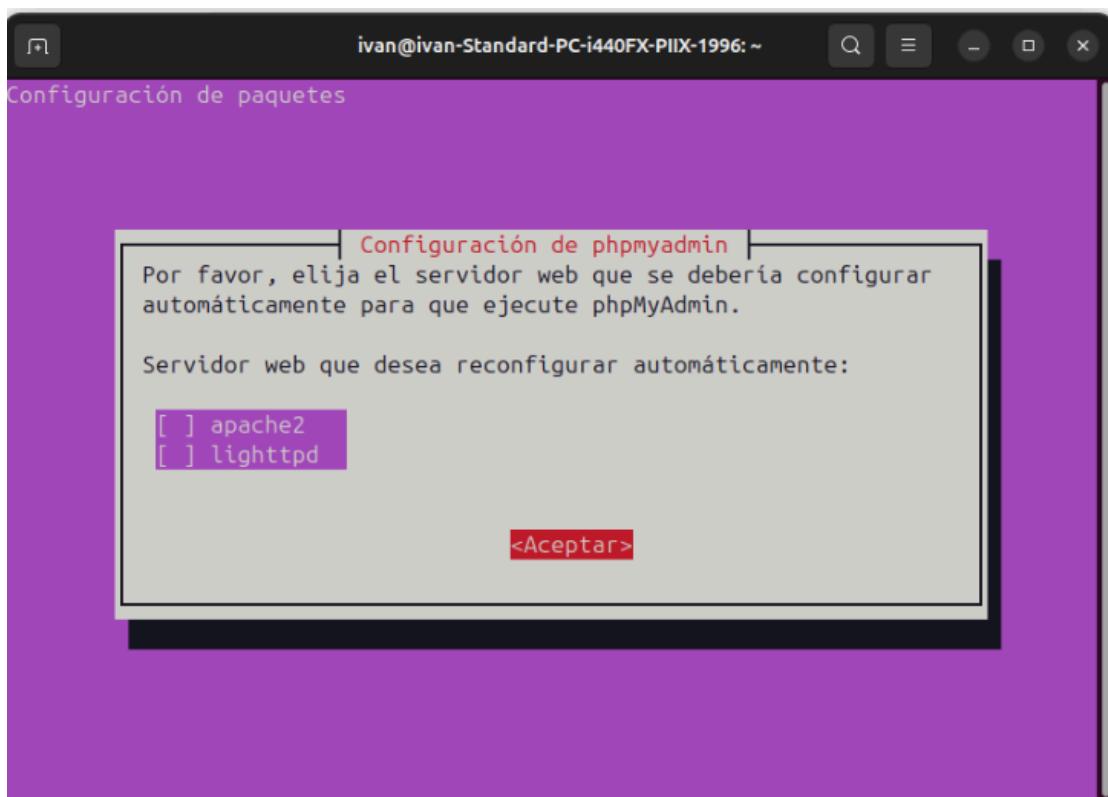
location / {
    # First attempt to serve request as file, then
    # as directory, then as alias, then
    # fallback to proxy_pass
    try_files $uri $uri/ =404;
}
```

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo nano /etc/nginx/sites-available/default
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo systemctl restart nginx
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ 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 Tue 2025-12-02 16:44:30 CET; 24s ago
     Docs: man:nginx(8)
  Process: 48224 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_proces>
  Process: 48226 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (>
 Main PID: 48227 (nginx)
    Tasks: 5 (limit: 9435)
   Memory: 3.8M (peak: 4.1M)
      CPU: 32ms
     CGroup: /system.slice/nginx.service
             ├─48227 "nginx: master process /usr/sbin/nginx -g daemon on; master_
             ├─48228 "nginx: worker process"
             ├─48229 "nginx: worker process"
             ├─48230 "nginx: worker process"
             └─48231 "nginx: worker process"

dic 02 16:44:29 ivan-Standard-PC-i440FX-PIIX-1996 systemd[1]: Starting nginx.se>
dic 02 16:44:30 ivan-Standard-PC-i440FX-PIIX-1996 systemd[1]: Started nginx.ser>
lines 1-19/19 (END)
```

Comprobamos el estado, está funcionando todo

Instalo PHP con sudo apt install phpmyadmin -y



```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo apt install phpmyadmin -y
[sudo] contraseña para ivan:
[sudo] se interrumpió la ejecución de dpkg, debe ejecutar manualmente «sudo dpkg --configure -a» para corregir el problema
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo dpkg --configure -a
configurando phpmyadmin (4:5.2.1+dfsg-3) ...
determining localhost credentials from /etc/mysql/debian.cnf: succeeded.
dbconfig-common: writing config to /etc/dbconfig-common/phpmyadmin.conf
creating config file /etc/dbconfig-common/phpmyadmin.conf with new version
creating config file /etc/phpmyadmin/config-db.php with new version
checking privileges on database phpmyadmin for phpmyadmin@localhost: user creation needed.
granting access to database phpmyadmin for phpmyadmin@localhost: success.
verifying access for phpmyadmin@localhost: success.
creating database phpmyadmin: success.
verifying database phpmyadmin exists: success.
populating database via sql... 
```

por ultimo vamos a vincular a nginx mediante un enlace simbólico

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ sudo ln -s /usr/share/phpmyadmin /var/www/html/phpmyadmin
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~$ 
```

```
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 80
Listen 8080
<IfModule ssl_module>
    Listen 443
</IfModule>

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

Configuramos el puerto 8080

```
ivan@ivan-Standard-PC-i440FX-PIIX-1996:~
```

```
GNU nano 7.2      /etc/apache2/sites-enabled/000-default.conf *
```

```
<VirtualHost *:8080>
    # The ServerName directive sets the request scheme, hostname and port t>
    # 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

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log

    ^G Ayuda      ^O Guardar   ^W Buscar   ^K Cortar   ^T Ejecutar   ^C Ubicación
    ^X Salir      ^R Leer fich. ^V Reemplazar ^U Pegar    ^J Justificar ^/ Ir a línea
```

Con la dirección <http://servidor2.centro.intranet:8080/phpmyadmin> entramos

