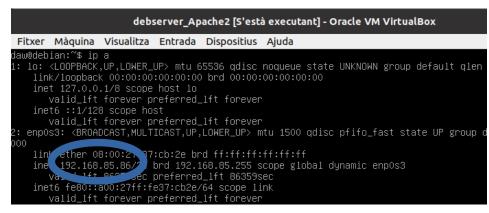
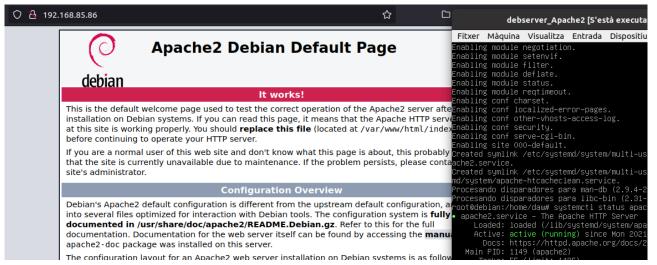
## Apache2 en Devian

La instalación de Apache2 comienca con la maquina virtual encendida siendo root (implementeando «su» en la terminal) y se instala mediate este comando:

```
root@debian:/home/daw# apt install apache2
```

Y ahora comprueva si apartir de la ip de la maquina aparezca la pagina predeterminada de apache2





Ahora tendremos que instalar MariaDB para implementar PHP en la pagina:

```
root@debian:/home/daw# apt install -y mariadb-server mariadb-client
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
galera-4 gawk libaio1 libcgi-fast-perl libcgi-pm-perl libclone-perl
```

Ahora comprueba que mariadb funcione corectamente:

```
root@debian:/home/daw# systemctl status mariadb
mariadb.service - MariaDB 10.5.12 database server
Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor prese>
Active: active (running) since Tue 2021-10-26 10:00:49 CEST; 38s ago
Docs: man:mariadbd(8)
https://mariadb.com/kb/en/library/systemd/
```

I ejecutamos mariaDB para la isntalación y decimos todo que no:

```
root@debian:/home/daw# mysql_secure_installation

Switch to unix_socket authentication [Y/n] n

Change the root password? [Y/n] n

Remove anonymous users? [Y/n] n

Disallow root login remotely? [Y/n] n

Remove test database and access to it? [Y/n] n

Reload privilege tables now? [Y/n] n

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!
```

Y instalamos los paquetes de php

root@debian:/home/daw#

```
root@debian:/home/daw# apt install -y php php-mysql libapache2-mod-php
```

Y también mas paquetes de apache2:

```
root@debian:/home/daw# apt install -y apache2 apache2-utils
```

Entonces implementando el comando en el navegador nos mostrara el php poniendo «ip/info.php»: echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php

#### PHP Version 7.4.21



System	Linux debian 5.10.0-9-amd64 #1 SMP Debian 5.10.70-1 (2021-09-30) x86_64
Build Date	Jul 2 2021 03:59:48
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/apache2
Loaded Configuration File	/etc/php/7.4/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php7.4/apache2/conf.d/10-mysqind.ini, /etc/php7.4/apache2/conf.d/10-opcache.ini, /etc/php7.4/apache2/conf.d/10-opcache.ini, /etc/php7.4/apache2/conf.d/10-opcache.ini, /etc/php7.4/apache2/conf.d/20-opcache.ini, /etc/php7.4/apache2/conf.d/20-opcache.ini, /etc/php7.4/apache2/conf.d/20-opcache.ini, /etc/php7.4/apache2/conf.d/20-file.ini, /etc/php7.4/apache2/conf.d/20-fip.ini, /etc/php7.4/apache2/conf.d/20-fip.ini, /etc/php7.4/apache2/conf.d/20-fip.ini, /etc/php7.4/apache2/conf.d/20-ipcache2/conf.d/20-opcache2/conf.d/20-
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902,NTS
PHP Extension Build	API20190902,NTS
Debug Build	no

# Nginx en Devian:

En la maquina virtual instalamos el paquete nginx:

```
root@debian:/home/daw# apt–get install nginx
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
```

Tambien tendremos que isntalar el php y diversos paquetes

```
root@debian:/home/daw# apt-get install php-fpm
```

```
root@debian:/home/daw# apt-get install php-mysql php-mbstring php-xml php-gd php-curl php-bcmath php-ldap mlocate
Leyendo lista de paquetes... Hecho
```

```
root@debian:/home/daw# updatedb
root@debian:/home/daw#
```

Y en estos archivos tendremos que poner estos textos:

```
GNU nano 5.4 /etc/nginx/sites-available/default

server_name _;

location / {
    # First attempt to serve request as file, th
    # as directory, then fall back to displaying
    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;
}
```

```
# deb cdrom: [Debian GNU/Linux 11.0.0 _Bullseye_ - Official amd64 DVD Binary-1 202106

deb cdrom: [Debian GNU/Linux 11.0.0 _Bullseye_ - Official amd64 DVD Binary-1 202106

deb http://security.debian.org/debian-security bullseye-security main contrib

deb-src http://security.debian.org/debian-security bullseye-security main contrib

# bullseye-updates, to get updates before a point release is made;

# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#_updates_ar

# A network mirror was not selected during install. The following entries

# are provided as examples, but you should amend them as appropriate

# for your mirror of choice.

# deb http://deb.debian.org/debian/ bullseye-updates main contrib

# deb-src http://deb.debian.org/debian/ bullseye-updates main contrib

deb-src http://deb.debian.org/debian/ bullseye main

deb http://security.debian.org/debian/ bullseye main

deb http://security.debian.org/debian/ bullseye main

deb http://deb.debian.org/debian/ bullseye-updates main contrib

deb http://deb.debian.org/debian bullseye main contrib non-free

deb-src http://deb.debian.org/debian-security bullseye/updates main contrib non-free

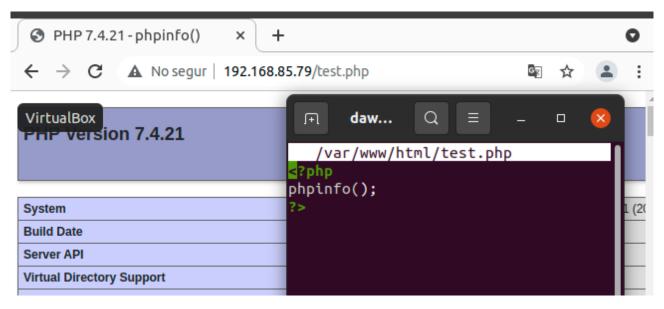
deb-src http://deb.debian.org/debian bullseye-updates main contrib non-free

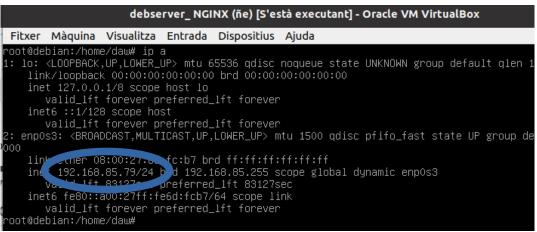
deb-src http://deb.debian.org/debian bullseye-updates main contrib non-free

deb-src http://deb.debian.org/debian bullseye-updates main contrib non-free

deb-src http://deb.debian.org/debian bullseye-backports main contrib non-free
```

Y ahora solo comprovaremos que en el navegador funcione tambien creando el test.php:





### **Apache2 en CentOS**

Con la maquina virtual actualizamos los paquetes:

```
[root@localhost daw12]# yum update -y
```

Y instalamos los paquetes y despues volvemos a actualizar:

Ahora instalamos el php con la version que queremos:

```
[root@localhost daw12]# yum module disable -y composer glpi php
[root@localhost daw12]# yum module enable -y composer glpi php:remi-7.4
```

Y isntalamos los paquetes extras del php

```
[root@localhost daw12]# yum install -y httpd php php-mysqlnd
[root@localhost daw12]# systemctl enable --now php-fpm httpd
Created symlink /etc/systemd/system/multi-user.target.wants/php-fpm.service → /u
sr/lib/systemd/system/php-fpm.service.
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr
/lib/systemd/system/httpd.service.
[root@localhost daw12]#
```

Y instalamos el mySQL:

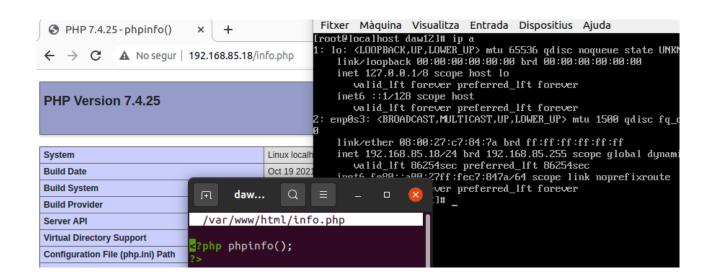
```
[root@localhost daw12]# yum install -y mysql-server
```

```
[root@localhost daw12]# systemctl enable --now mysqld
Created symlink /etc/systemd/system/multi-user.target.wants/mysqld.service → /u
r/lib/systemd/system/mysgld.service.
```

Editamos el firewall para que no de problemas:

```
[root@localhost daw12]# firewall-cmd --permanent --add-service={http,https}
success
[root@localhost daw12]# firewall-cmd --permanent --add-service=http
Warning: ALREADY_ENABLED: http
success
[root@localhost daw12]# firewall-cmd --reload
success
[root@localhost daw12]#
```

Y ahora solamente lo comprovamos en el navegador:



## **Nginx en CentOS**

Instalamos el nginx:

```
[root@localhost daw12]# dnf install nginx

Total download size: 14 M

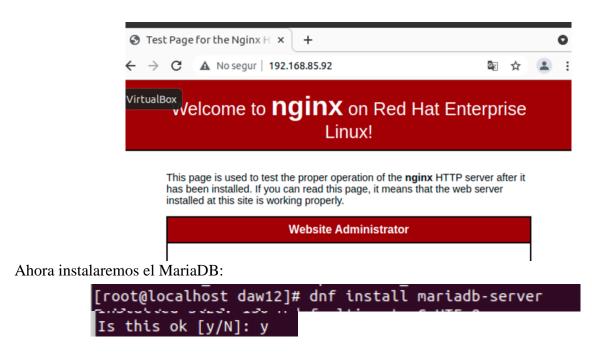
Installed size: 40 M

Is this ok [y/N]: y
```

Y comprovamos que el servicio funcione:

```
[root@localhost daw12]# systemctl start nginx
[root@localhost daw12]# systemctl status nginx

nginx.service - The nginx HTTP and reverse proxy server
Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; v
Active: active (running) since Tue 2021-10-26 08:16:24 EDT; 5s ago
Process: 4004 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCC
Process: 4003 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=
Process: 4001 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited)
Main PID: 4006 (nginx)
```



Y comprovamos el servicio:

Ahora acavamos la isntalación de MySQL y diremos que no a todo:

```
[root@localhost daw12]# mysql_secure_installation
```

```
Enter current password for root (enter for none):
OK, successfully used password, moving on...
Set root password? [Y/n] n
```

skinnina

```
Remove anonymous users? [Y/n] n
... skipping.
```

Disallow root login remotely? [Y/n] n
... skipping.

Remove test database and access to it? [Y/n] n
... skipping.

Reload privilege tables now? [Y/n] n
... skipping.

#### Ahora lo ejecutaremos y crearemos un usuario y una database:

Y aora con el usuario creado comprovaremos:

Ahora isntalamos los paquetes adicionales de php e instalamos el nano:

```
[root@localhost daw12]# dnf install php-fpm php-mysqlnd
[root@localhost daw12]# dnf install nano
```

editamos estos 2 elemenos que ponian apache y ponemos nginx:

```
GNU nano 2.9.8
                               /etc/php-fpm.d/www.conf
                                                                      Moc
   'chroot'
 - 'chdir'
 - 'php_values'
 - 'php_admin_values'
; When not set, the global prefix (or @php_fpm_prefix@) applies instead.
Note: This directive can also be relative to the global prefix.
Default Value: none
;prefix = /path/to/pools/$pool
; Unix user/group of processes
Note: The user is mandatory. If the group is not set, the default user
       will be used.
          the user chosen to provide access to the same directories as ht
user = nginx
RPM: Keep a_grot allowed to write in log dir.
group = nginx
 The address on which to accept FastCGI requests.
 Valid syntaxes are:
```

Comprovamos el estado de nginx:

Y le damos permisos: al usuario en la tabla

## [root@localhost daw12]# chown -R daw12.daw12 /usr/share/nginx/html/

Y ahora creamos el php y commprovamos que funcione escriviendo la ip y despues el php:





