

## Package configuration

Software selection

You can choose to install one or more of the following predefined collections of software.

Choose software to install:

☐ Ubuntu Studio live DVD

☐ Xubuntu live CD

☐ Ubuntu Cloud Image (instance)

☐ DNS server

☐ Kubuntu desktop

☒ LAMP server

☐ Ubuntu Desktop

☐ Mail server

☐ PostgreSQL database

☐ Print server

☐ Samba file server

☐ Ubuntu Budgie desktop

☐ Ubuntu desktop

☐ Ubuntu desktop default languages

☐ Ubuntu minimal desktop

☐ Ubuntu minimal desktop default languages

☐ Ubuntu MATE minimal

☐ Ubuntu MATE desktop

☐ Audio recording and editing suite

☐ Ubuntu Studio desktop

☐ Ubuntu Studio minimal DE installation

☐ Large selection of font packages

☐ 2D/3D creation and editing suite

<OK>

## Package configuration

Removing linux-image-5.4.0-67-generic

You are running a kernel (version 5.4.0-67-generic) and attempting to remove the same version.

This can make the system unbootable as it will remove /boot/vmlinuz-5.4.0-67-generic and all modules under the directory /lib/modules/5.4.0-67-generic. This can only be fixed with a copy of the kernel image and the corresponding modules.

It is highly recommended to abort the kernel removal unless you are prepared to fix the system after removal.

Abort kernel removal?

<Yes>

<No>

Package configuration

Installing packages  
Installed libapache2-mod-php7.4 (amd64)

100%

momid@momid:~\$ \_

```
momid@momid:~$ sudo systemctl status mysql
• mysql.service - MySQL Community Server
  Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
  Active: active (running) since Wed 2021-04-21 22:41:37 UTC; 6min ago
    Main PID: 10933 (mysqld)
      Status: "Server is operational"
     Tasks: 37 (limit: 4619)
    Memory: 331.6M
    CGroup: /system.slice/mysql.service
            └─10933 /usr/sbin/mysqld

Apr 21 22:41:35 momid systemd[1]: Starting MySQL Community Server...
Apr 21 22:41:37 momid systemd[1]: Started MySQL Community Server.
momid@momid:~$ _
```

```
momid@momid:~$ sudo systemctl status apache2
• apache2.service - The Apache HTTP Server
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
  Active: active (running) since Wed 2021-04-21 22:41:48 UTC; 2min 53s ago
    Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 12237 (apache2)
      Tasks: 6 (limit: 4619)
     Memory: 10.3M
    CGroup: /system.slice/apache2.service
            └─12237 /usr/sbin/apache2 -k start
              └─12241 /usr/sbin/apache2 -k start
                └─12242 /usr/sbin/apache2 -k start
                  └─12243 /usr/sbin/apache2 -k start
                    └─12244 /usr/sbin/apache2 -k start
                      └─12245 /usr/sbin/apache2 -k start

Apr 21 22:41:47 momid systemd[1]: Starting The Apache HTTP Server...
Apr 21 22:41:48 momid apachectl[12215]: AH00558: apache2: Could not reliably determine the server's s
Apr 21 22:41:48 momid systemd[1]: Started The Apache HTTP Server.
lines 1-18/18 (END)
```


```
momid@momid:~$ php -a
Interactive mode enabled

php > echo('Hola Mundo');
Hola Mundo
php > exit
momid@momid:~$
```

Apache2 Ubuntu Default: x +

← → ↻ No es seguro 192.168.56.105

Aplicaciones Google Logo UGR Gmail YouTube Maps - Introducción Tema 2: Autó... tema4FBD202... Ingeniería de r... 1.ResolEcuac... Finite State M... Lista de lectura



## Apache2 Ubuntu Default Page

**It works!**

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this 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 several 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 itself 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
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*.available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.
- The binary is called `apache2`. Due to the use of environment variables, in the default configuration, `apache2` needs to be started/stopped with `/etc/init.d/apache2` or `apache2ctl`. **Calling `/usr/bin/apache2` directly will not work** with the default configuration.

**Document Roots**

By default, Ubuntu does not allow access through the web browser to any file apart of those located in `/var/www/public.html` directories (when enabled) and `/usr/share` (for web applications). If your site is using a web document root located elsewhere (such as in `/srv`) you may need to whitelist your document root directory in `/etc/apache2/apache2.conf`.

```
abr 21 19:01:55 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
abr 21 19:01:55 localhost.localdomain httpd[23034]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, setting 'localhost.localdomain'
abr 21 19:01:55 localhost.localdomain systemd[1]: Started The Apache HTTP Server.
abr 21 19:01:55 localhost.localdomain httpd[23034]: Server configured, listening on: port 80
lines 1-19/19 (END)
```

## Página de Prueba

Esta página se usa para probar el correcto funcionamiento del [servidor Apache HTTP](#) una vez que ha sido instalado. Si puedes leer esta página quiere decir que este sitio está funcionando correctamente. Este servidor funciona con [CentOS](#).

## ¿Solo estás visitando?

El sitio web que está visitando está presentando problemas o está realizando rutinas de mantenimiento.

Si desea comunicar al administrador de este sitio que está viendo esta página en lugar de la página esperada, envíele un correo electrónico. Por lo general, los correos enviados al nombre "webmaster" y dirigidos al dominio del sitio web deberían llegarle a la persona correcta.

Por ejemplo, si experimentaste problemas mientras visitabas [www.example.com](http://www.example.com), deberías enviar un correo electrónico a "webmaster@example.com".

**Nota importante:**

El Proyecto CentOS no tiene nada que ver con este sitio web o su contenido, él solo suministra el software que hace posible el funcionamiento del sitio web.

### ¿Eres el Administrador?

Deberías adicionar el contenido de tu sitio web al directorio

Para evitar que esta página se vuelva a mostrar, sigue las instrucciones del fichero `/etc/httpd/conf.d/welcome.conf`.

## Promocionando Apache y CentOS

Eres libre de utilizar las imágenes siguientes en servidores HTTP que funcionan con Apache y CentOS Linux. ¡Gracias por usar Apache y CentOS!



## El Proyecto CentOS

CentOS Linux es una plataforma estable, predecible, administrable y

```

[momid@localhost ~]$ sudo systemctl status mariadb
● mariadb.service - MariaDB 10.3 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
[momid@localhost ~]$ sudo systemctl start mariadb
[momid@localhost ~]$ sudo systemctl status mariadb
● mariadb.service - MariaDB 10.3 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2021-04-21 19:11:38 EDT; 2s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
  Process: 26452 ExecStartPost=/usr/libexec/mysql-check-upgrade (code=exited, status=0/SUCCESS)
  Process: 26317 ExecStartPre=/usr/libexec/mysql-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)
  Process: 26293 ExecStartPre=/usr/libexec/mysql-check-socket (code=exited, status=0/SUCCESS)
 Main PID: 26420 (mysqld)
    Status: "Taking your SQL requests now..."
      Tasks: 30 (limit: 23960)
    Memory: 83.2M
   CGroup: /system.slice/mariadb.service
           └─26420 /usr/libexec/mysqld --basedir=/usr

abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: See the MariaDB Knowledgebase at https://mariadb.org/kb/en
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: MySQL manual for more instructions
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: Please report any problems at https://mariadb.org/bug-reports
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: The latest information about MariaDB can be found at https://mariadb.org
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: You can find additional information about the MySQL community here: https://dev.mysql.com
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: http://dev.mysql.com
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: Consider joining MariaDB's strong and growing community
abr 21 19:11:38 localhost.localdomain mysql-prepare-db-dir[26317]: https://mariadb.org/get-involved/
abr 21 19:11:38 localhost.localdomain mysqld[26420]: 2021-04-21 19:11:38 0 [Note] /usr/libexec/mysqld: Starting MariaDB 10.3.36 server
abr 21 19:11:38 localhost.localdomain systemd[1]: Started MariaDB 10.3 database server.
lines 1-25/25 (END)

```

to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

```

Remove anonymous users? [Y/n] y
... Success!

```

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

```

Disallow root login remotely? [Y/n] y
... Success!

```

By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

```

Remove test database and access to it? [Y/n] y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!

```

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

```

Reload privilege tables now? [Y/n] y
... Success!

```

Cleaning up...

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

```

Thanks for using MariaDB!
[momid@localhost ~]$

```

```
[momid@localhost ~]$ php -a
Interactive shell

php >
```

```
<?php
$link = mysqli_connect('127.0.0.1:3306', 'root', 'ISE');

if (!$link){
    die('No se puede conectar');
}

echo('Conectado satisfactoriamente');

mysqli_close($link);_

phpinfo();

?>
```

```
$ _SERVER['TERM'] => linux
$_SERVER['SHLVL'] => 1
$_SERVER['XDG_SEAT'] => seat0
$_SERVER['LOGNAME'] => momid
$_SERVER['DBUS_SESSION_BUS_ADDRESS'] => unix:path=/run/user/1000/bus
$_SERVER['XDG_RUNTIME_DIR'] => /run/user/1000
$_SERVER['PATH'] => /home/momid/.local/bin:/home/momid/bin:/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin
$_SERVER['HISTSIZE'] => 1000
$_SERVER['LESSOPEN'] => ||/usr/bin/lesspipe.sh %s
$_SERVER[''] => /usr/bin/php
$_SERVER['PHP_SELF'] => /var/www/html/index.php
$_SERVER['SCRIPT_NAME'] => /var/www/html/index.php
$_SERVER['SCRIPT_FILENAME'] => /var/www/html/index.php
$_SERVER['PATH_TRANSLATED'] => /var/www/html/index.php
$_SERVER['DOCUMENT_ROOT'] =>
$_SERVER['REQUEST_TIME_FLOAT'] => 1619047882.4947
$_SERVER['REQUEST_TIME'] => 1619047882
$_SERVER['argv'] => Array
(
    [0] => /var/www/html/index.php
)

$_SERVER['argc'] => 1

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but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

If you did not receive a copy of the PHP license, or have any
questions about PHP licensing, please contact license@php.net.
[momid@localhost ~]$
```

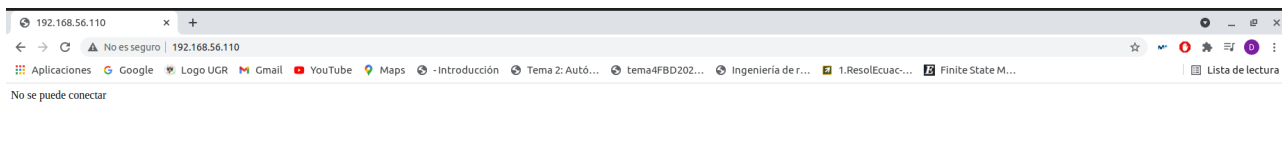
```
# It can be "All", "None", or any combination of the keywords:
#   Options FileInfo AuthConfig Limit
#
AllowOverride None

#
# Controls who can get stuff from this server.
#
Require all granted
</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
<IfModule dir_module>
    DirectoryIndex index.html, index.php
</IfModule>

#
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
#
<Files ".ht*">
    Require all denied
</Files>

#
# ErrorLog: The location of the error log file.
# If you do not specify an ErrorLog directive within a <VirtualHost>
# container, error messages relating to that virtual host will be
# logged here. If you *do* define an error logfile for a <VirtualHost>
# container, that host's errors will be logged there and not here.
#
ErrorLog "logs/error_log"
"/etc/httpd/conf/httpd.conf" 356L, 11910C written
[momid@localhost ~]$ _
```



## SERVIDOR APACHE HTTP

### Página de Prueba

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#### Nota importante:

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#### ¿Eres el Administrador?

Deberías adicionar el contenido de tu sitio web al directorio `/var/www/html/`.

Para evitar que esta página se vuelva a mostrar, sigue las instrucciones del fichero `/etc/httpd/conf.d/welcome.conf`.

#### Promocionando Apache y CentOS

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#### El Proyecto CentOS

CentOS Linux es una plataforma estable, reproducible, administrable y...

```
[momid@localhost ~]$ sudo systemctl status fail2ban
● fail2ban.service - Fail2Ban Service
   Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:fail2ban(1)
[momid@localhost ~]$ sudo systemctl start fail2ban
[momid@localhost ~]$ sudo systemctl status fail2ban
● fail2ban.service - Fail2Ban Service
   Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2021-04-21 19:50:33 EDT; 1s ago
     Docs: man:fail2ban(1)
  Process: 28293 ExecStartPre=/bin/mkdir -p /run/fail2ban (code=exited, status=0/SUCCESS)
 Main PID: 28294 (fail2ban-server)
    Tasks: 3 (limit: 23968)
   Memory: 11.1M
   CGroup: /system.slice/fail2ban.service
           └─28294 /usr/bin/python3.6 -s /usr/bin/fail2ban-server -xf start

abr 21 19:50:33 localhost.localdomain systemd[1]: Starting Fail2Ban Service...
abr 21 19:50:33 localhost.localdomain systemd[1]: Started Fail2Ban Service.
abr 21 19:50:33 localhost.localdomain fail2ban-server[28294]: Server ready
[momid@localhost ~]$ _
```

```
[momid@localhost ~]$ sudo fail2ban-client status
Status
|- Number of jail:      0
`- Jail list:
[momid@localhost ~]$
```

```
[momid@localhost ~]$ sudo fail2ban-client status
Status
|- Number of jail:      1
`- Jail list:  sshd
[momid@localhost ~]$ _
```

```
[momid@localhost ~]$ sudo fail2ban-client status sshd
Status for the jail: sshd
|- Filter
| |- Currently failed: 0
| |- Total failed:    0
| `-- Journal matches: _SYSTEMD_UNIT=sshd.service + _COMM=sshd
`- Actions
  |- Currently banned: 1
  |- Total banned:    1
  `-- Banned IP list: 192.168.56.1
[momid@localhost ~]$ _
```

```
[momid@localhost ~]$ sudo fail2ban-client set sshd unbanip 192.168.56.1
1
[momid@localhost ~]$ sudo fail2ban-client status sshd
Status for the jail: sshd
|- Filter
| |- Currently failed: 0
| |- Total failed:    0
| `-- Journal matches: _SYSTEMD_UNIT=sshd.service + _COMM=sshd
`- Actions
  |- Currently banned: 0
  |- Total banned:    1
  `-- Banned IP list:
[momid@localhost ~]$
```



```
daniel@daniel-XPS-15-9570:~$ ssh momid@192.168.56.110 -p 22022
momid@192.168.56.110's password:
Activate the web console with: systemctl enable --now cockpit.socket

Last failed login: Wed Apr 21 20:02:48 EDT 2021 from 192.168.56.1 on ssh:notty
There were 6 failed login attempts since the last successful login.
Last login: Wed Apr 21 20:02:16 2021 from 192.168.56.1
[momid@localhost ~]$
```