

Trabajo Final de Laboratorio de Redes y Sistemas Operativos

Tema: Zimbra Drive + Owncloud



Integrantes:

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Zimbra

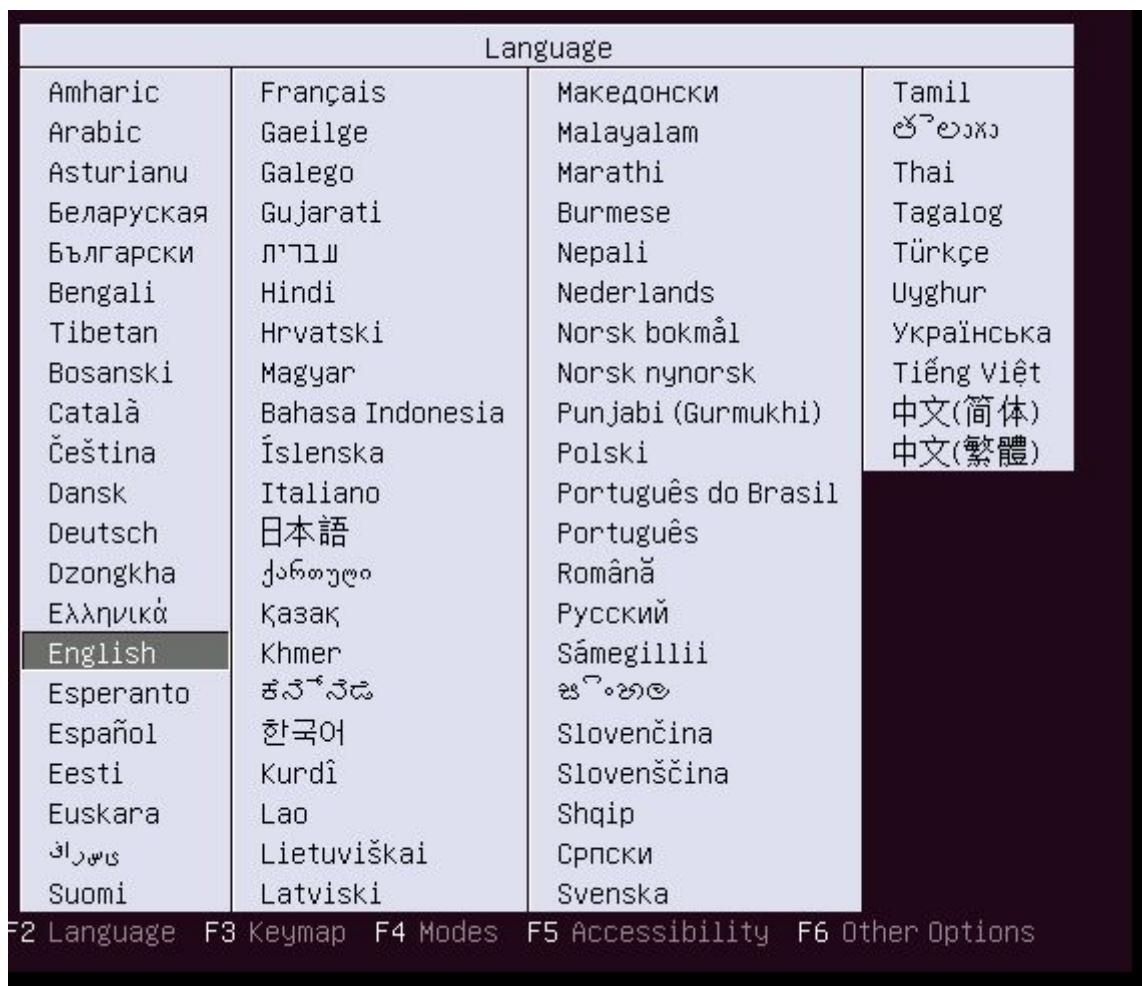
Zimbra es un servidor de mensajería de colaboración que permite compartir, almacenar y organizar mensajes de correo electrónico, citas, contactos, tareas, documentos y mucho más.

El servidor ZCS (Zimbra Collaboration Suite) hace uso de proyectos de código abierto existentes como Postfix, MySQL, OpenLDAP y Lucene. cuenta con una interfaz de programación de aplicaciones basado en SOAP para toda su funcionalidad y actúa como servidor IMAP y POP3 de correo electrónico.

El cliente web ZCS es una interfaz de colaboración y administración completa creada empleando el Toolkit Zimbra. Soporta correos electrónicos y calendarios a través de una interfaz web basada en AJAX. Incluye capacidades de búsqueda avanzada, calendario compartido y relaciones de fechas.

Zimbra utiliza protocolos estándar abiertos (SMTP, LMTP, SOAP, XML, IMAP, POP, iCal, CalDAV) y se puede instalar en las principales distribuciones Linux del mercado (Red Hat Enterprise, Fedora, Ubuntu, Debian, Mandriva y SUSE Linux) o Mac OS X, Gentoo y VMware (Zimbra Appliance).

Instalacion de Ubuntu Server para Zimbra



Elegimos el idioma Español

[!!!] Seleccione su ubicación

La ubicación seleccionada aquí se utilizará para fijar su zona horaria y también como ejemplo para ayudarle a seleccionar la localización de su sistema. Esta localización será habitualmente el país donde vd. vive.

Esta es una lista reducida de ubicaciones basada en el idioma que ha seleccionado. Escoja «otro» si su ubicación no está en la lista.

País, territorio o área:

- Argentina
- Bolivia
- Chile
- Colombia
- Costa Rica
- Cuba
- Ecuador
- El Salvador
- España
- Estados Unidos
- Guatemala
- Honduras
- México
- Nicaragua
- Panamá
- Paraguay
- Perú
- Puerto Rico
- República Dominicana

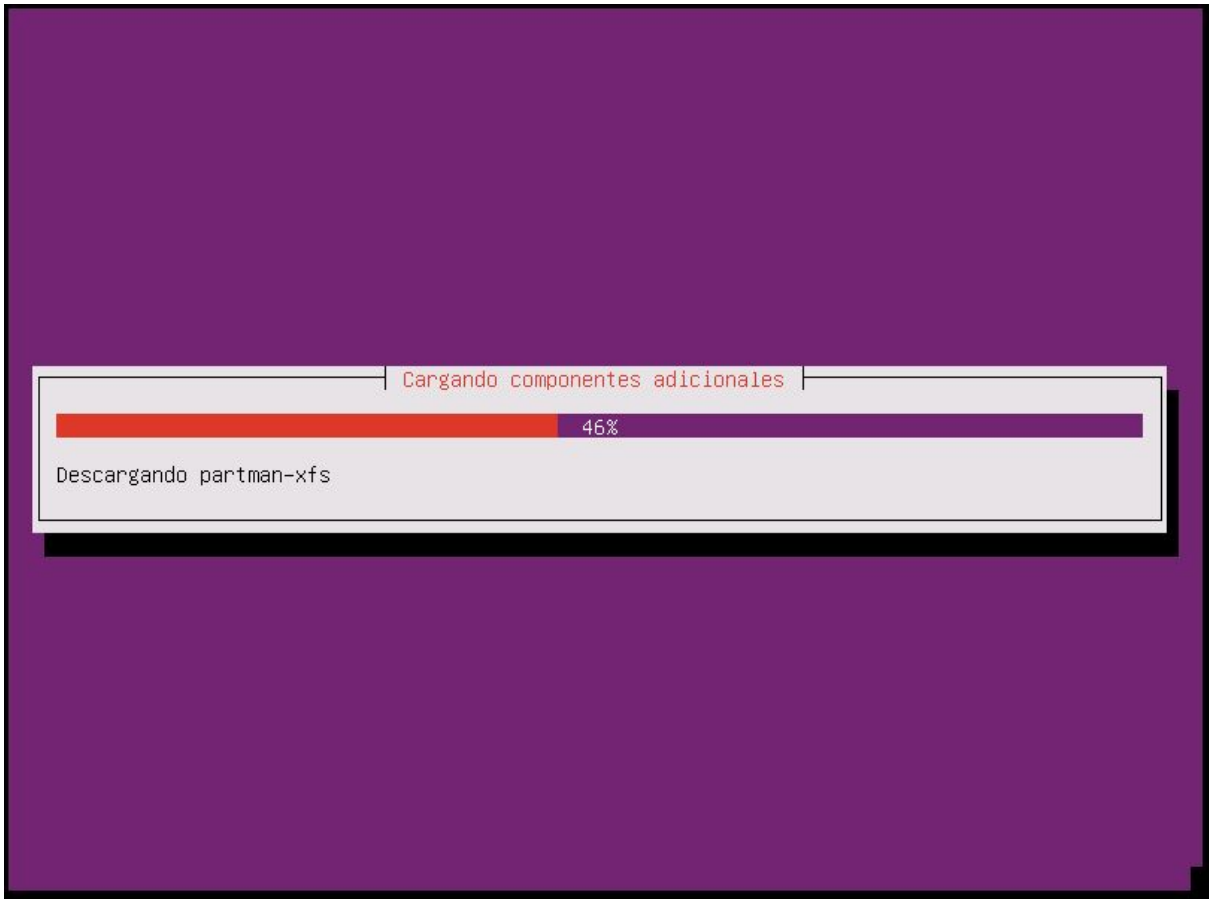
<Retroceder>

<Tab> mueve; <Espacio> selecciona; <Intro> activa un botón

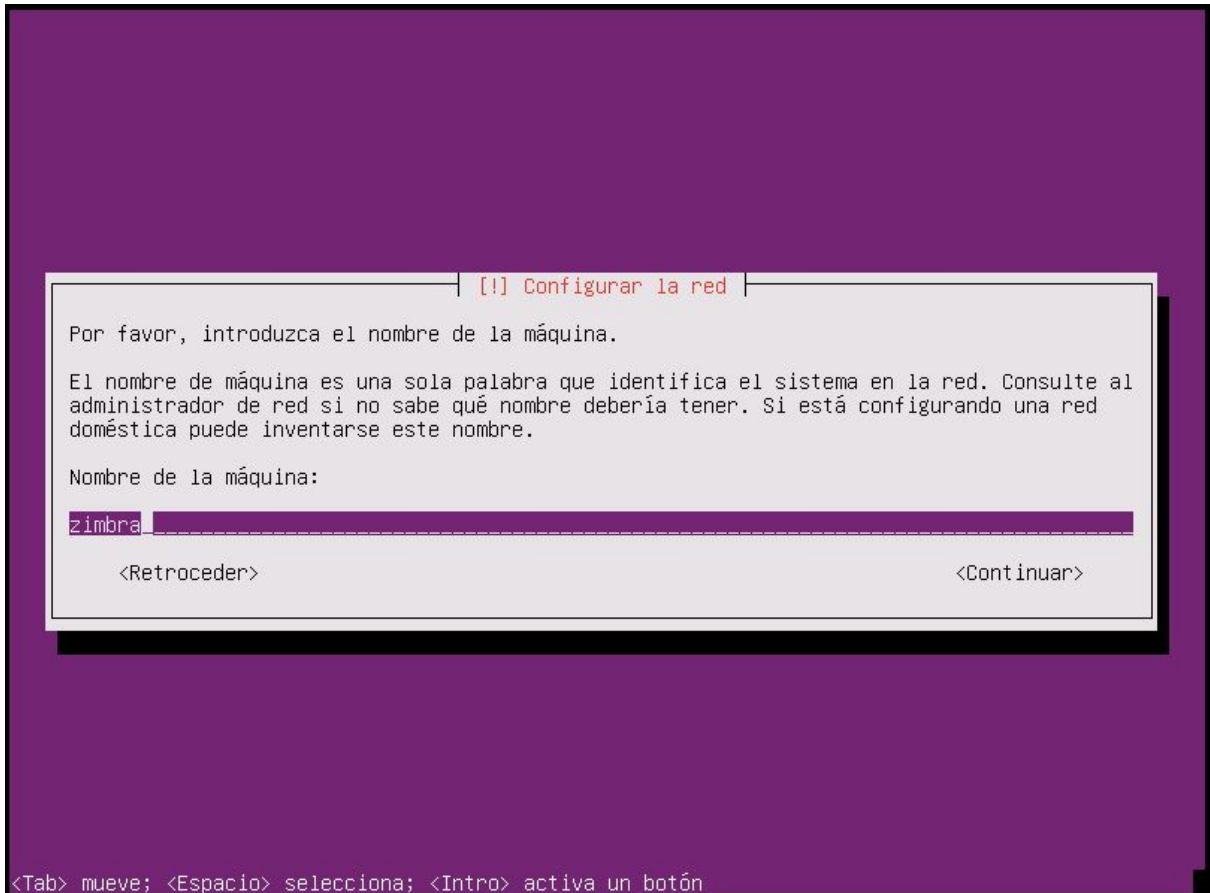
El territorio Argentina



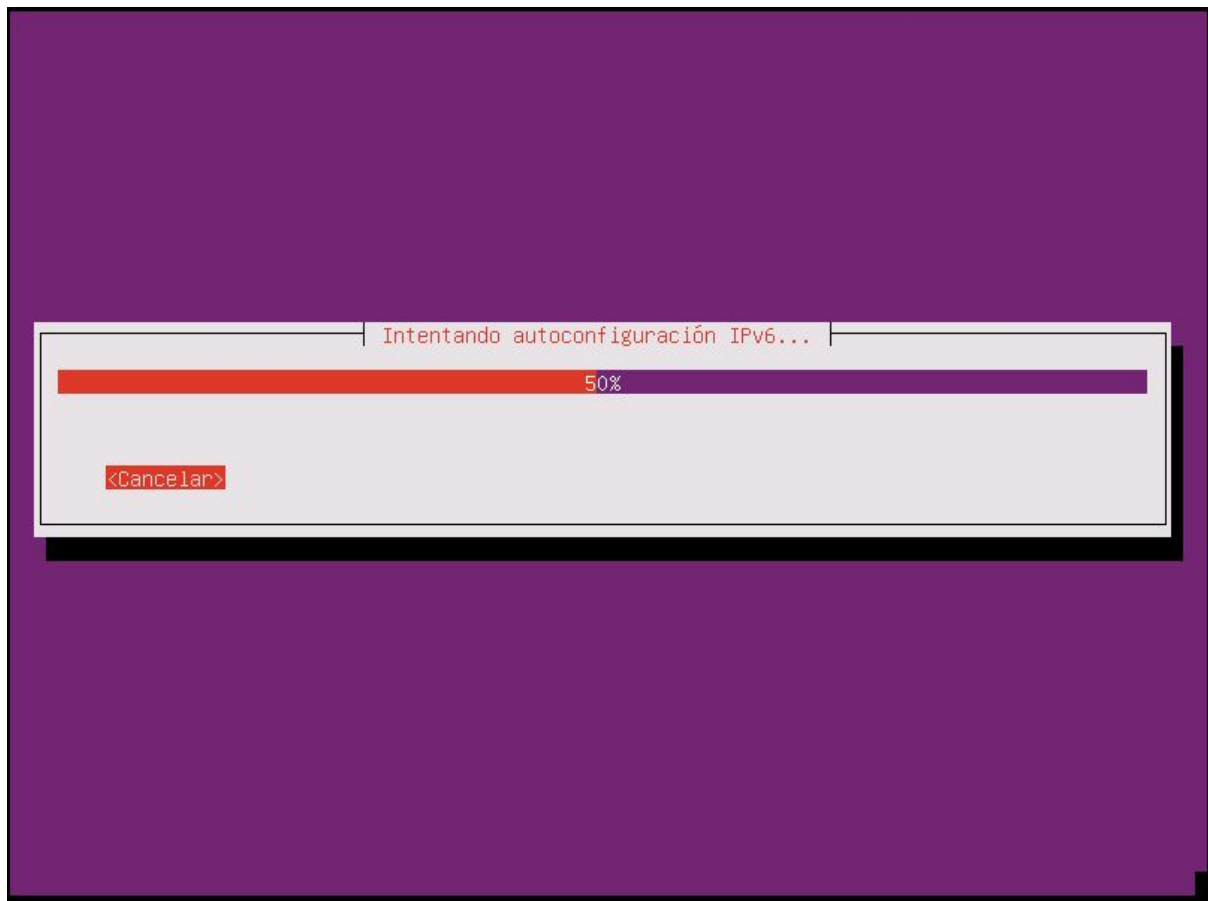
Aca decidimos que configuración de teclado es la nuestra



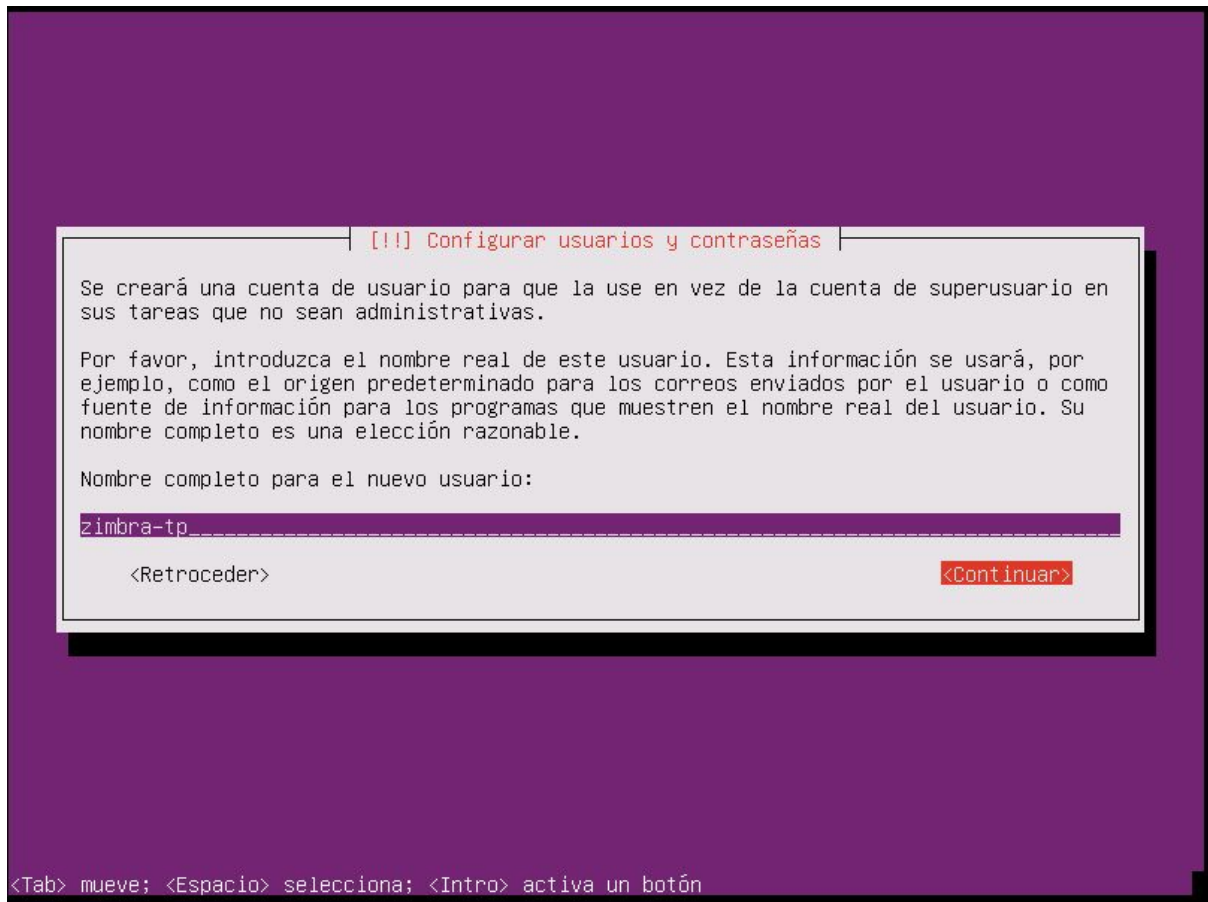
Va a empezar a cargar componentes



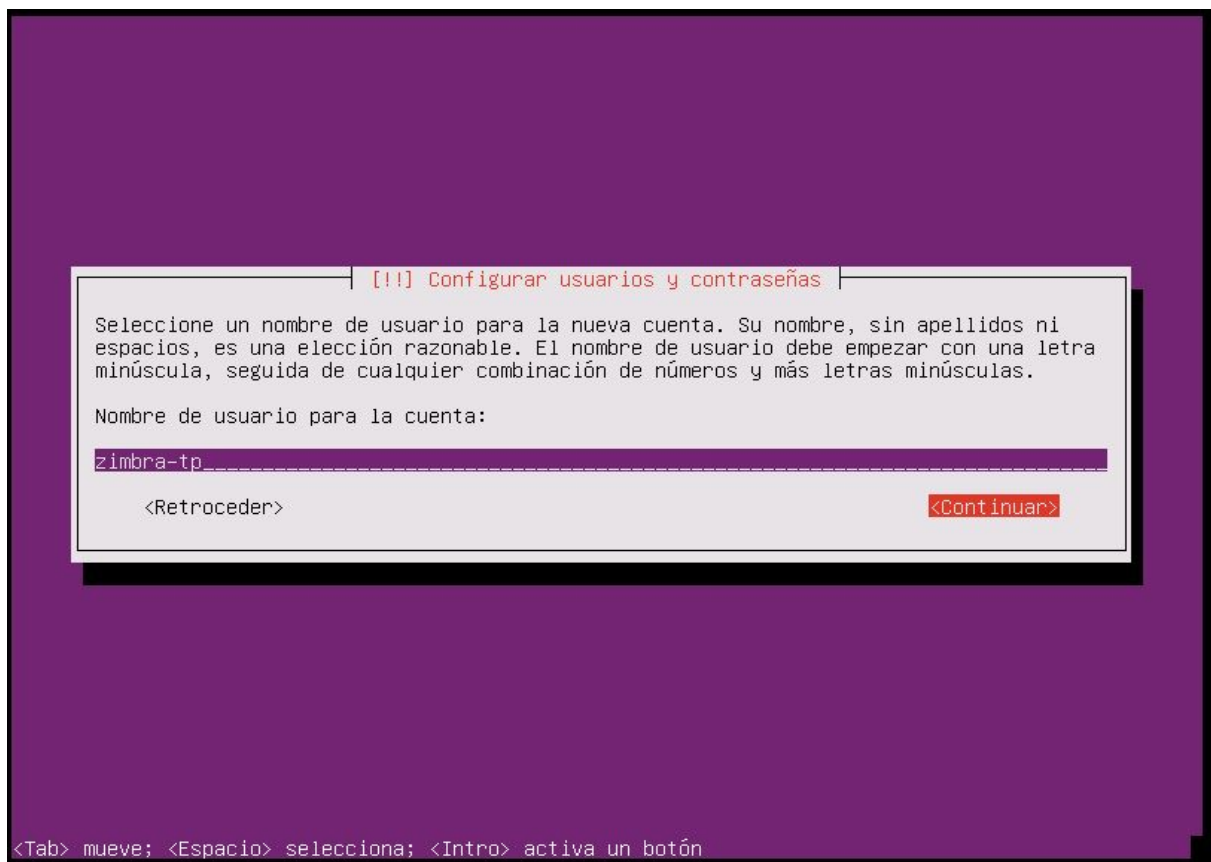
Elegimos el nombre de la máquina



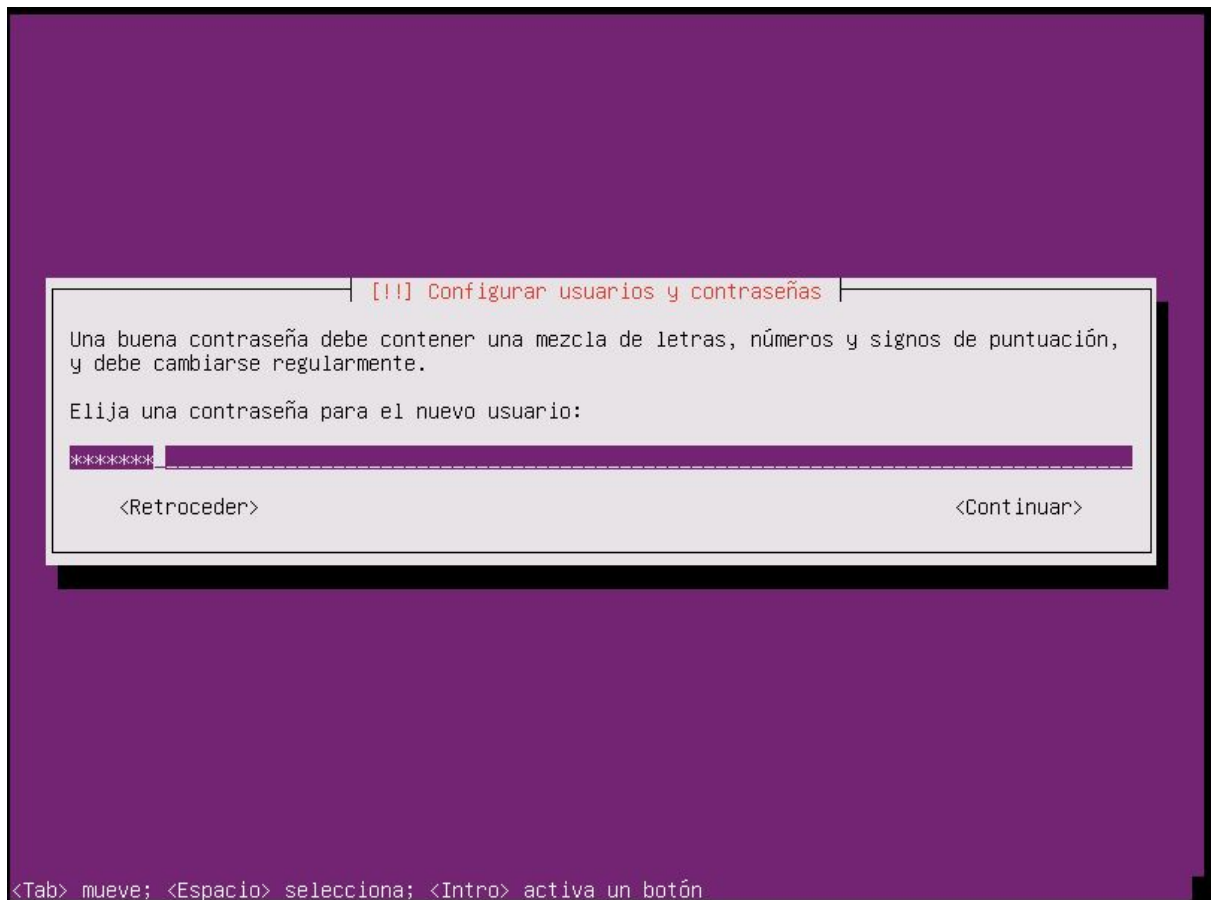
Va a comenzar a configurar el dhcp



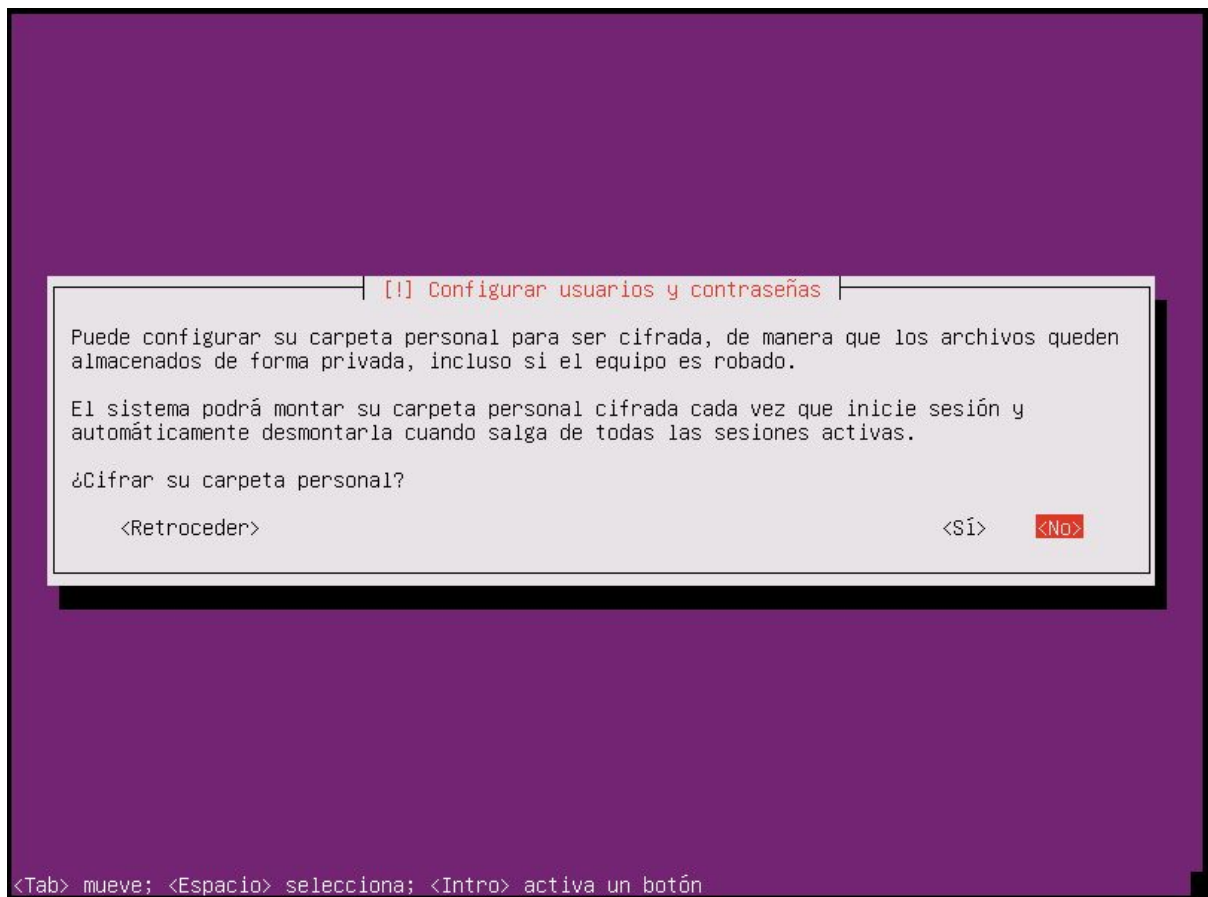
Nos va a pedir el nombre del nuevo usuario



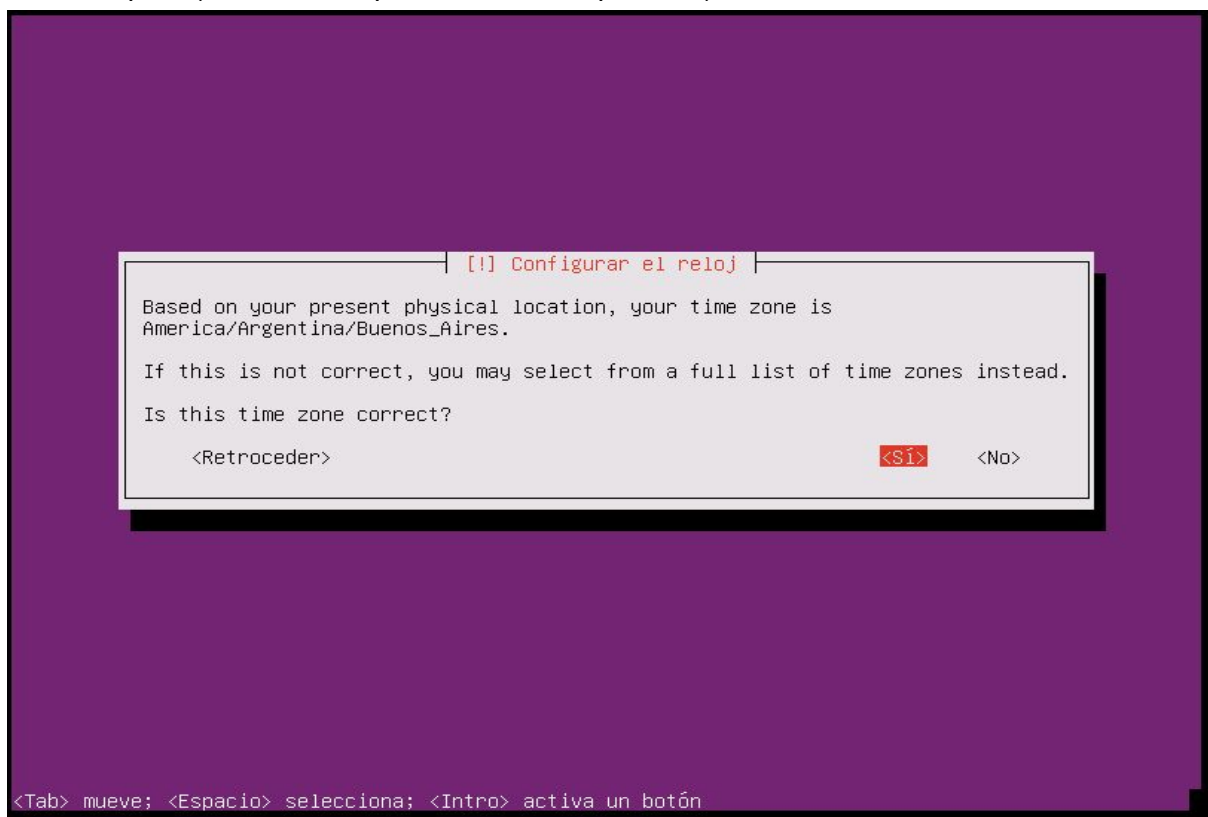
El username



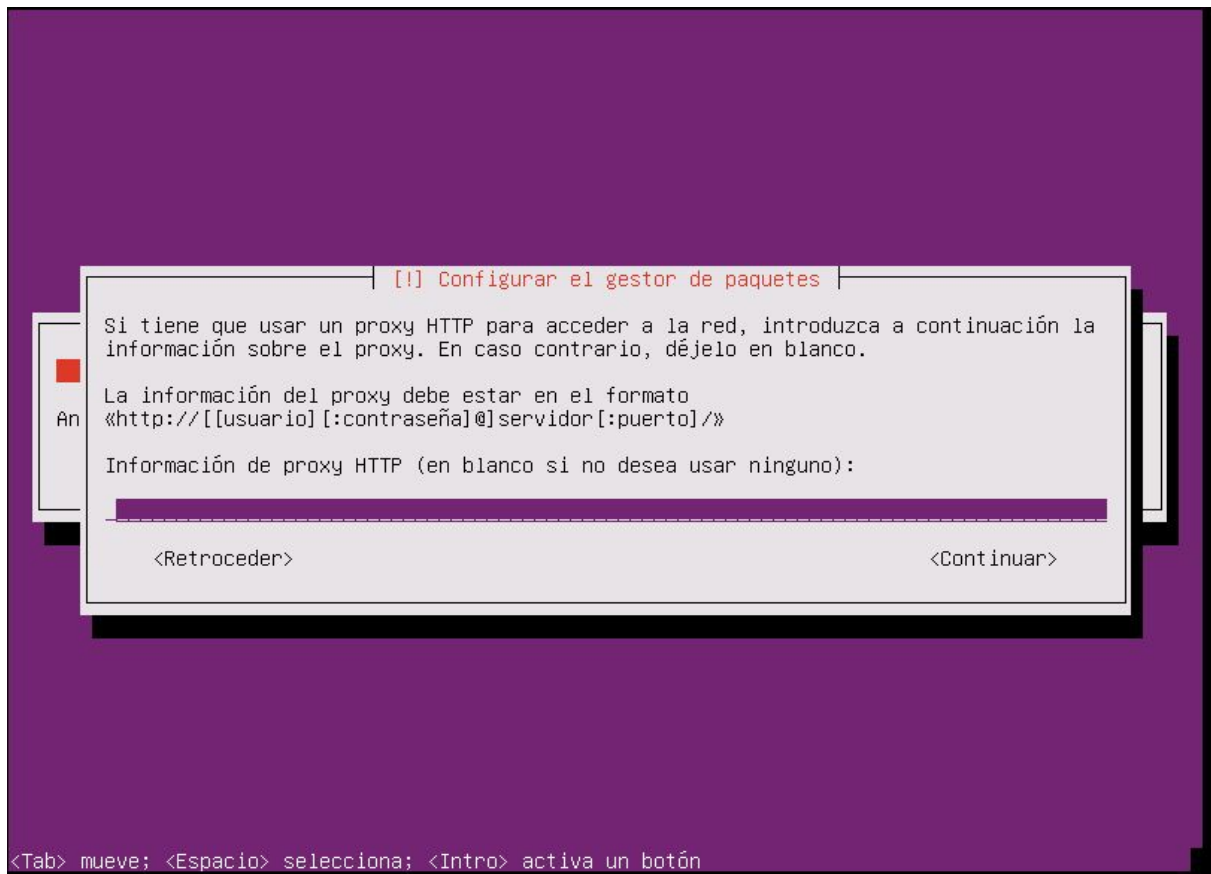
La password



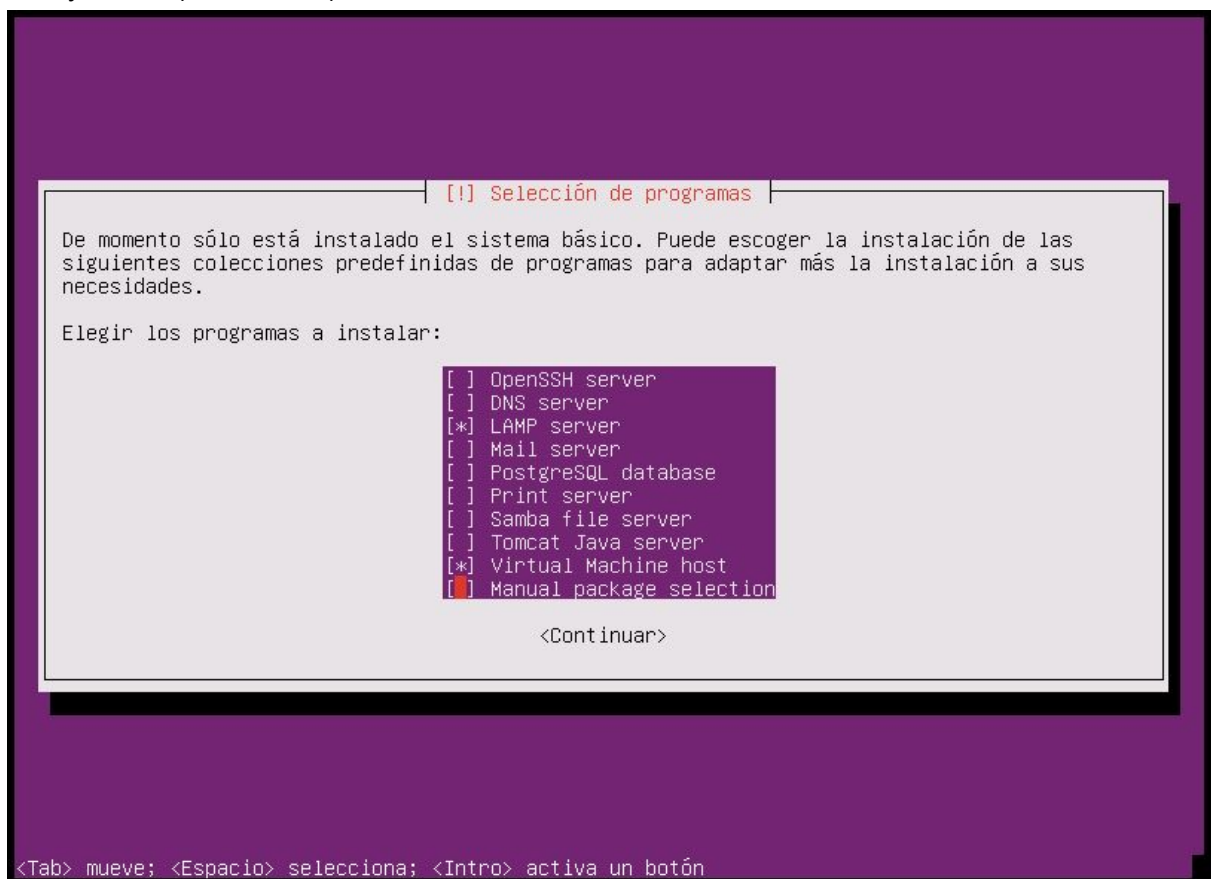
Cifrar carpeta (recomiendo que no a fines de pruebas)



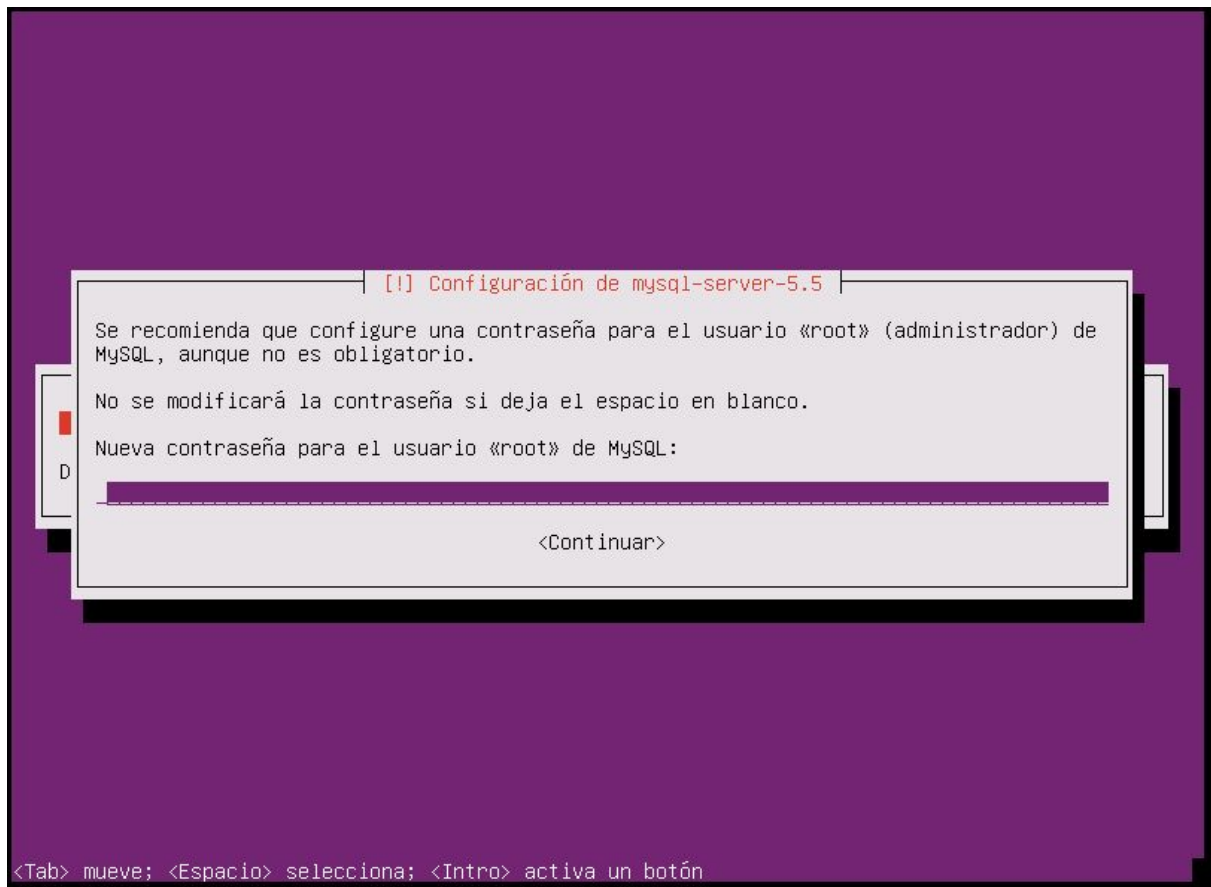
Configurar NTP client



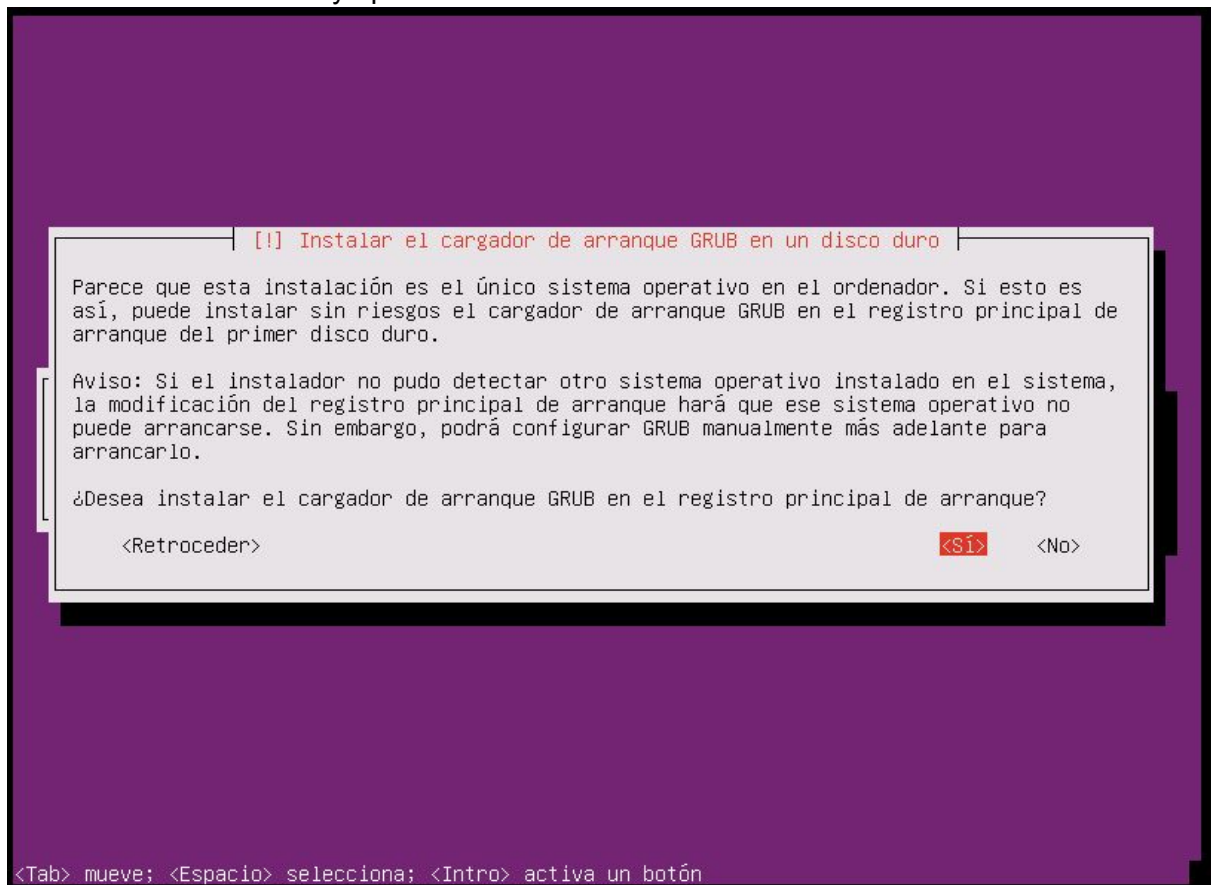
Proxy HTTP (no usamos)



Usamos LAMP server. Virtual Machine hosts no es necesario pero lo agregamos igual.



Contraseña de root de mysql



GRUB

[!!] Terminar la instalación

Instalación completada

La instalación se ha completado. Ahora podrá arrancar el nuevo sistema. Asegúrese de extraer el disco de instalación (CD-ROM o disquetes) para que el sistema arranque del disco en lugar de reiniciar la instalación.

<Retroceder>

<Continuar>

<Tab> mueve; <Espacio> selecciona; <Intro> activa un botón

Fin de la instalación

```
Ubuntu 14.04.5 LTS zimbra tty1

zimbra login: zimbra-tp
Password:
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.4.0-31-generic x86_64)

* Documentation:  https://help.ubuntu.com/

System information as of Fri Dec  8 12:58:11 ART 2017

System load:  0.62                Processes:            230
Usage of /:   2.9% of 51.06GB     Users logged in:    0
Memory usage: 2%                 IP address for eth0: 192.168.0.103
Swap usage:   0%

Graph this data and manage this system at:
  https://landscape.canonical.com/

187 packages can be updated.
136 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

zimbra-tp@zimbra:~$ sudo passwd
[sudo] password for zimbra-tp:
Introduzca la nueva contraseña de UNIX:
Vuelva a escribir la nueva contraseña de UNIX:
passwd: password updated successfully
zimbra-tp@zimbra:~$
zimbra-tp@zimbra:~$
```

Primer booteo y seteamos la contraseña de root

```
[sudo] password for zimbra-tp:
Introduzca la nueva contraseña de UNIX:
Vuelva a escribir la nueva contraseña de UNIX:
passwd: password updated successfully
zimbra-tp@zimbra:~$
zimbra-tp@zimbra:~$ sudo apt-get update
Des:1 http://security.ubuntu.com trusty-security InRelease [65,9 kB]
Des:2 http://security.ubuntu.com trusty-security/main Sources [147 kB]
Des:3 http://security.ubuntu.com trusty-security/restricted Sources [4.931 B]
Des:4 http://security.ubuntu.com trusty-security/universe Sources [67,2 kB]
Des:5 http://security.ubuntu.com trusty-security/multiverse Sources [3.195 B]
Des:6 http://security.ubuntu.com trusty-security/main amd64 Packages [696 kB]
Des:7 http://security.ubuntu.com trusty-security/restricted amd64 Packages [14,1 kB]
Des:8 http://security.ubuntu.com trusty-security/universe amd64 Packages [198 kB]
Des:9 http://security.ubuntu.com trusty-security/multiverse amd64 Packages [4.795 B]
Des:10 http://security.ubuntu.com trusty-security/main i386 Packages [639 kB]
Des:11 http://security.ubuntu.com trusty-security/restricted i386 Packages [13,9 kB]
Des:12 http://security.ubuntu.com trusty-security/universe i386 Packages [195 kB]
Ign http://ar.archive.ubuntu.com trusty InRelease
Des:13 http://security.ubuntu.com trusty-security/multiverse i386 Packages [4.935 B]
Des:14 http://ar.archive.ubuntu.com trusty-updates InRelease [65,9 kB]
Obj http://security.ubuntu.com trusty-security/main Translation-en
Obj http://security.ubuntu.com trusty-security/multiverse Translation-en
Obj http://security.ubuntu.com trusty-security/restricted Translation-en
Obj http://security.ubuntu.com trusty-security/universe Translation-en
Obj http://ar.archive.ubuntu.com trusty-backports InRelease
Obj http://ar.archive.ubuntu.com trusty Release.gpg
Des:15 http://ar.archive.ubuntu.com trusty-updates/main Sources [409 kB]
Des:16 http://ar.archive.ubuntu.com trusty-updates/restricted Sources [6.322 B]
Des:17 http://ar.archive.ubuntu.com trusty-updates/universe Sources [195 kB]
Des:18 http://ar.archive.ubuntu.com trusty-updates/multiverse Sources [7.740 B]
Des:19 http://ar.archive.ubuntu.com trusty-updates/main amd64 Packages [1.043 kB]
Des:20 http://ar.archive.ubuntu.com trusty-updates/restricted amd64 Packages [17,2 kB]
```

sudo apt-get update

[sudo apt-get install gnome-session-fallback

sudo apt-get install openjdk-7-jre

sudo apt-get install libwebkitgtk-1.0-0

sudo apt-get install gnome-desktop-environment] Opcional, pueden usar la gui que prefieran

INSTALACIÓN DE ZIMBRA

En primer lugar, debemos editar el fichero: /etc/network/interfaces. Configurando una ip estática, su máscara, el gateway y los dns de la siguiente manera:

```
GNU nano 2.2.6 Archivo: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.1.253
netmask 255.255.255.0
gateway 192.168.1.1
dns-nameservers 127.0.0.1
dns-nameservers 8.8.8.8
```

Verificamos que el fichero /etc/resolv.conf esté bien configurado.

```
GNU nano 2.2.6 Archivo: /etc/resolv.conf

# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 127.0.0.1
nameserver 8.8.8.8
```

Debemos configurar también el fichero /etc/hosts debemos tener nuestra ip local, con el hostname más el dominio y luego el hostname.

```
GNU nano 2.2.6 Archivo: /etc/hosts

127.0.0.1    localhost
#127.0.1.1  zimbra
192.168.1.253 zimbra.zimbra.com zimbra

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

Una vez que tenemos estos ficheros configurados correctamente, debemos reiniciar el equipo utilizando reboot.

Instalación del servidor DNS

Instalamos el servidor DNS dnsmasq utilizando el siguiente comando: `apt-get install dnsmasq`. Este servidor resulta ser cómodo para entornos pequeños.

Una vez instalado debemos editar la configuración de dnsmasq. Ingresamos al fichero `/etc/dnsmasq.conf` y añadimos las siguientes entradas:

```
GNU nano 2.2.6 Archivo: /etc/dnsmasq.conf

server=8.8.8.8
listen-address=127.0.0.1
domain=zimbra.com
mx-host=zimbra.com,zimbra.zimbra.com,0
address=/zimbra.zimbra.com/192.168.1.253
```

Podemos utilizar la herramienta `dig` para comprobar que el mx resuelve bien, de la siguiente manera:

```
root@zimbra:/home/federico# dig mx zimbra.com

;<<>> DiG 9.9.5-3ubuntu0.8-Ubuntu <<>> mx zimbra.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51884
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; QUESTION SECTION:
zimbra.com.                IN      MX

;; ANSWER SECTION:
zimbra.com.                0      IN      MX      0 zimbra.zimbra.com.

;; ADDITIONAL SECTION:
zimbra.zimbra.com.        0      IN      A      192.168.1.253

;; Query time: 12 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Thu Dec 14 13:59:32 ART 2017
;; MSG SIZE rcvd: 77
```

Lanzamos la consulta y podemos ver que el server nos devuelve 127.0.0.1. De la misma forma probamos la resolución de nuestra entrada DNS del tipo A. con el siguiente comando.

```
root@zimbra:/home/federico# dig zimbra.zimbra.com

; <<>> DiG 9.9.5-3ubuntu0.8-Ubuntu <<>> zimbra.zimbra.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 686
;; flags: qr aa rd ra ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
zimbra.zimbra.com.          IN      A

;; ANSWER SECTION:
zimbra.zimbra.com.         0       IN      A      192.168.1.253

;; Query time: 5 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Thu Dec 14 14:07:26 ART 2017
;; MSG SIZE rcvd: 51
```

Descargamos el zip del programa con el siguiente comando:

```
wget
https://files.zimbra.com/downloads/8.7.6_GA/zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124.tgz
```

```
root@zimbra:/home/federico# wget https://files.zimbra.com/downloads/8.7.6_GA/zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124.tgz
--2017-12-14 17:15:49-- https://files.zimbra.com/downloads/8.7.6_GA/zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124.tgz
Resolviendo files.zimbra.com (files.zimbra.com)... 52.84.175.184
Conectando con files.zimbra.com (files.zimbra.com)[52.84.175.184]:443... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 267041996 (255M) [binary/octet-stream]
Grabando a: "zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124.tgz"

12% [=====>] 1 32.982.704 111KB/s T.E. 33m 51s
```

Una vez que termina de descargar, lo descomprimos con el siguiente comando:

```
tar xzvf zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124.tgz

una vez descomprimido nos movemos al directorio
zcs-8.7.6_GA_1776.UBUNTU14_64.20170326144124 y ejecutamos ./install.sh
```

A continuación veremos la siguiente ejecución:

Operations logged to /tmp/install.log.uM1VDt2i

Checking for existing installation...

zimbra-chat...NOT FOUND
zimbra-drive...NOT FOUND
zimbra-ldap...NOT FOUND
zimbra-logger...NOT FOUND
zimbra-mta...NOT FOUND
zimbra-dnscache...NOT FOUND
zimbra-snmp...NOT FOUND
zimbra-store...NOT FOUND
zimbra-apache...NOT FOUND
zimbra-spell...NOT FOUND
zimbra-convertd...NOT FOUND
zimbra-memcached...NOT FOUND
zimbra-proxy...NOT FOUND
zimbra-archiving...NOT FOUND
zimbra-core...NOT FOUND

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SYNACOR, INC. ("SYNACOR") WILL ONLY LICENSE THIS SOFTWARE TO YOU IF YOU
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License Terms for this Zimbra Collaboration Suite Software:

<https://www.zimbra.com/license/zimbra-public-eula-2-6.html>

Do you agree with the terms of the software license agreement? [N] y

[Aceptamos los términos y condiciones con Y.](#)

Use Zimbra's package repository [Y]

[Luego permitimos instalar los paquetes del repositorio de zimbra.](#)

Importing Zimbra GPG key

Configuring package repository

Checking for installable packages

Found zimbra-core (local)
Found zimbra-ldap (local)
Found zimbra-logger (local)
Found zimbra-mta (local)
Found zimbra-dnscache (local)
Found zimbra-snmp (local)
Found zimbra-store (local)
Found zimbra-apache (local)
Found zimbra-spell (local)
Found zimbra-memcached (repo)
Found zimbra-proxy (local)
Found zimbra-chat (repo)
Found zimbra-drive (repo)

Select the packages to install --[Seleccionamos los paquetes a instalar](#)

Install zimbra-ldap [Y]
Install zimbra-logger [Y]
Install zimbra-mta [Y]
Install zimbra-dnscache [Y] n

[El paquete zimbra-dnscache no se selecciona ya que esta función la cumple el dnsmasq.](#)

Install zimbra-snmp [Y]
Install zimbra-store [Y]
Install zimbra-apache [Y]
Install zimbra-spell [Y]
Install zimbra-memcached [Y]
Install zimbra-proxy [Y]
Install zimbra-chat [Y]
Install zimbra-drive [Y]
Checking required space for zimbra-core
Checking space for zimbra-store
Checking required packages for zimbra-store
zimbra-store package check complete.

Installing:

zimbra-core
zimbra-ldap
zimbra-logger
zimbra-mta
zimbra-snmp
zimbra-store
zimbra-apache
zimbra-spell
zimbra-memcached

zimbra-proxy
zimbra-chat
zimbra-drive

The system will be modified. Continue? [N] y --Permitimos realizar las modificaciones.

Beginning Installation - see /tmp/install.log.uM1VDt2i for details...

zimbra-core will be installed.
zimbra-core-components will be downloaded and installed.
zimbra-ldap will be installed.
zimbra-ldap-components will be downloaded and installed.
zimbra-logger will be installed.
zimbra-mta will be installed.
zimbra-mta-components will be downloaded and installed.
zimbra-snmp will be installed.
zimbra-snmp-components will be downloaded and installed.
zimbra-store will be installed.
zimbra-store-components will be downloaded and installed.
zimbra-apache will be installed.
zimbra-apache-components will be downloaded and installed.
zimbra-spell will be installed.
zimbra-spell-components will be downloaded and installed.
zimbra-memcached will be downloaded and installed.
zimbra-proxy will be installed.
zimbra-proxy-components will be downloaded and installed.
zimbra-chat will be downloaded and installed.
zimbra-drive will be downloaded and installed.

Downloading packages (9):

zimbra-core-components
zimbra-ldap-components
zimbra-mta-components
zimbra-snmp-components
zimbra-store-components
zimbra-apache-components
zimbra-spell-components
zimbra-memcached
zimbra-proxy-components
...done

Removing /opt/zimbra

Removing zimbra crontab entry...done.

Cleaning up zimbra init scripts...done.

Cleaning up /etc/security/limits.conf...done.

Finished removing Zimbra Collaboration Server.

Installing repo packages (9):

- zimbra-core-components
- zimbra-ldap-components
- zimbra-mta-components
- zimbra-snmp-components
- zimbra-store-components
- zimbra-apache-components
- zimbra-spell-components
- zimbra-memcached
- zimbra-proxy-components
- ...done

Installing local packages (9):

- zimbra-core
- zimbra-ldap
- zimbra-logger
- zimbra-mta
- zimbra-snmp
- zimbra-store
- zimbra-apache
- zimbra-spell
- zimbra-proxy
- ...done

Installing extra packages (2):

- zimbra-chat
- zimbra-drive
- ...done

Running Post Installation Configuration:

Operations logged to /tmp/zmsetup.20170331-002218.log

Installing LDAP configuration database...done.

Setting defaults...

DNS ERROR resolving MX for zimbra.tp.com

It is suggested that the domain name have an MX record configured in DNS

Change domain name? [Yes]

-- [Aca cambiamos el dominio por el nuestro](#)

Create domain: [zimbra.tp.com] tp.com

MX: zimbra8.example.com (192.168.1.6)

Interface: 192.168.1.6

Interface: fd7a:4c04:5f10:0:20c:29ff:feb9:ecf8

Interface: 127.0.0.1

Interface: ::1

done.

Checking for port conflicts

Select, or 'r' for previous menu [r] 6

-- [Aca elegimos el menú obligatorio sin completar](#)

Select, or 'r' for previous menu [r] 4

-- [Elegimos cambiar la password de administrador](#)

Password for admin@example.com (min 6 characters): [sJahaUyn1] zimbratp

Store configuration

- | | |
|--|--|
| 1) Status: | Enabled |
| 2) Create Admin User: | yes |
| 3) Admin user to create: | admin@tp.com |
| 4) Admin Password | set |
| 5) Anti-virus quarantine user: | virus-quarantine.6bikjdxgk@example.com |
| 6) Enable automated spam training: | yes |
| 7) Spam training user: | spam.3rsikzlf4@tp.com |
| 8) Non-spam(Ham) training user: | ham.ht5ayhufh@tp.com |
| 9) SMTP host: | zimbra.tp.com |
| 10) Web server HTTP port: | 8080 |
| 11) Web server HTTPS port: | 8443 |
| 12) Web server mode: | https |
| 13) IMAP server port: | 7143 |
| 14) IMAP server SSL port: | 7993 |
| 15) POP server port: | 7110 |
| 16) POP server SSL port: | 7995 |
| 17) Use spell check server: | yes |
| 18) Spell server URL: | http://zimbra.tp.com:7780/aspell.php |
| 19) Enable version update checks: | TRUE |
| 20) Enable version update notifications: | TRUE |
| 21) Version update notification email: | zimbra@tp.com |
| 22) Version update source email: | zimbra@tp.com |
| 23) Install mailstore (service webapp): | yes |
| 24) Install UI (zimbra,zimbraAdmin webapps): | yes |

Select, or 'r' for previous menu [r] r

Main menu

- | | |
|--------------------------|---------|
| 1) Common Configuration: | |
| 2) zimbra-ldap: | Enabled |
| 3) zimbra-logger: | Enabled |
| 4) zimbra-mta: | Enabled |
| 5) zimbra-snmp: | Enabled |
| 6) zimbra-store: | Enabled |
| 7) zimbra-spell: | Enabled |

- 8) zimbra-proxy: Enabled
- 9) Default Class of Service Configuration:
- s) Save config to file
- x) Expand menu
- q) Quit

*** CONFIGURATION COMPLETE - press 'a' to apply
Select from menu, or press 'a' to apply config (? - help) a

Save configuration data to a file? [Yes]
Saving config in /opt/zimbra/config.10687...done.
Operations logged to /tmp/zmsetup.20170331-002218.log
Setting local config values...done.
Initializing core config...Setting up CA...done.
Deploying CA to /opt/zimbra/conf/ca ...done.
Creating SSL zimbra-store certificate...done.
Creating new zimbra-ldap SSL certificate...done.
Creating new zimbra-mta SSL certificate...done.
Creating new zimbra-proxy SSL certificate...done.
Installing mailboxd SSL certificates...done.
Installing MTA SSL certificates...done.
Installing LDAP SSL certificate...done.
Installing Proxy SSL certificate...done.
Initializing ldap...done.
Setting replication password...done.
Setting Postfix password...done.
Setting amavis password...done.
Setting nginx password...done.
Setting BES searcher password...done.
Creating server entry for z88.zimbra.io...done.
Setting Zimbra IP Mode...done.
Saving CA in ldap...done.
Saving SSL Certificate in ldap...done.
Setting spell check URL...done.
Setting service ports on z88.zimbra.io...done.
Setting zimbraFeatureTasksEnabled=TRUE...done.
Setting zimbraFeatureBriefcasesEnabled=TRUE...done.
Checking current setting of zimbraReverseProxyAvailableLookupTargets
Querying LDAP for other mailstores
Searching LDAP for reverseProxyLookupTargets...done.
Adding z88.zimbra.io to zimbraReverseProxyAvailableLookupTargets
Setting TimeZone Preference...done.
Initializing mta config...done.
Setting services on z88.zimbra.io...done.
Adding z88.zimbra.io to zimbraMailHostPool in default COS...done.
Creating domain zimbra.io...done.

Setting default domain name...done.
Creating domain zimbra.io...already exists.
Creating admin account admin@zimbra.io...done.
Creating root alias...done.
Creating postmaster alias...done.
Creating user spam.oyoo4ziyn@zimbra.io...done.
Creating user ham.hlbafghb6@zimbra.io...done.
Creating user virus-quarantine.ahqn9fmvbz@zimbra.io...done.
Setting spam training and Anti-virus quarantine accounts...done.
Initializing store sql database...done.
Setting zimbraSmtphostname for z88.zimbra.io...done.
Configuring SNMP...done.
Setting up syslog.conf...done.
Starting servers...done.
Installing common zimlets...
 com_zimbra_cert_manager...done.
 com_zimbra_adminversioncheck...done.
 com_zimbra_tooltip...done.
 com_zimbra_attachmail...done.
 com_zextras_chat_open...done.
 com_zimbra_phone...done.
 com_zimbra_webex...done.
 com_zimbra_viewmail...done.
 com_zimbra_attachcontacts...done.
 com_zimbra_clientuploader...done.
 com_zimbra_bulkprovision...done.
 com_zimbra_url...done.
 com_zimbra_email...done.
 com_zimbra_date...done.
 com_zimbra_mailarchive...done.
 com_zimbra_srchhighlighter...done.
 com_zextras_drive_open...done.
 com_zimbra_proxy_config...done.
 com_zimbra_ymemoticons...done.
Finished installing common zimlets.
Restarting mailboxd...done.
Creating galsync account for default domain...done.

You have the option of notifying Zimbra of your installation.

This helps us to track the uptake of the Zimbra Collaboration Server.

The only information that will be transmitted is:

 The VERSION of zcs installed (8.7.6_GA_1776_UBUNTU14_64)

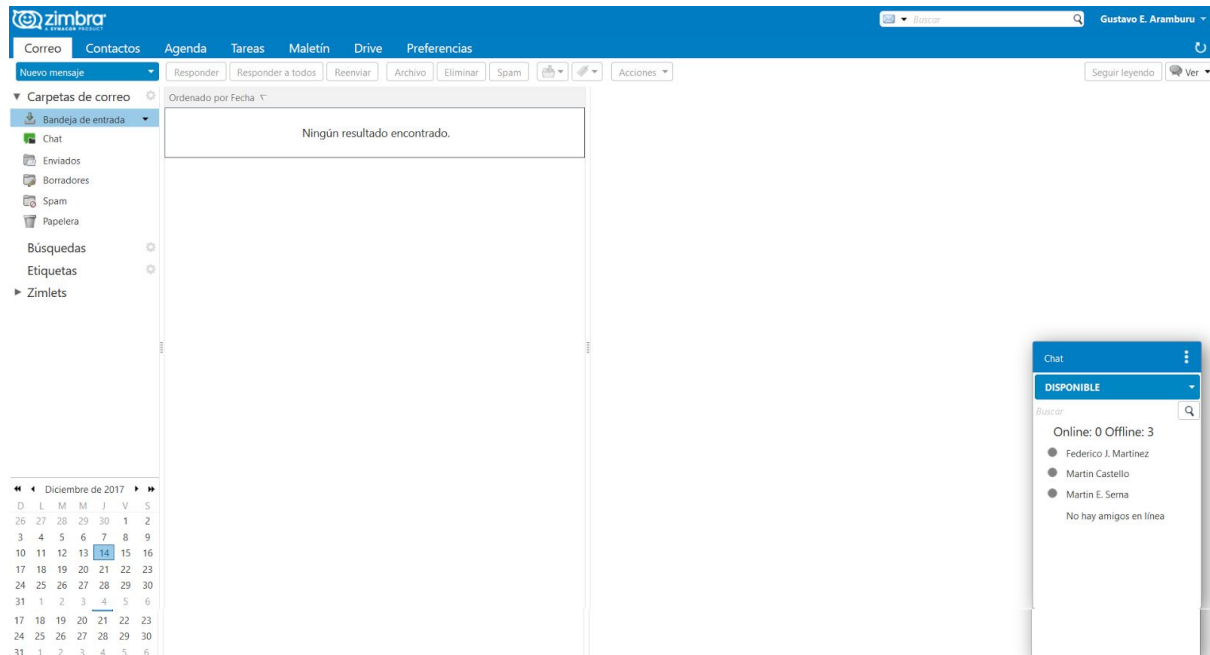
 The ADMIN EMAIL ADDRESS created (admin@zimbra.io)

Notify Zimbra of your installation? [Yes] n

Setting up zimbra crontab...done.

Moving /tmp/zmsetup.20160430-185719.log to /opt/zimbra/log

Configuration complete - press return to exit



INSTALACIÓN DE OWNCLOUD

Una vez que terminemos con la configuración de zimbra procederemos a instalar owncloud

Para eso necesitamos los requisitos:

Requisitos:

apache y php.

```
apt-get install apache2 libapache2-mod-php5  
apt-get install php5-gd php5-json php5-mysql php5-curl  
apt-get install php5-intl php5-mcrypt php5-imagick
```

mariadb

```
apt-get install -y mariadb-server
```

una vez que terminemos con las instalaciones debemos ejecutar lo siguiente

```
mysql_secure_installation
```

y completarlo segun nuestro criterio de seguridad:

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current password for the root user. If you've just installed MariaDB, and you haven't set the root password yet, the password will be blank, so you should just press enter here.

Enter current password for root (enter for none): OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB root user without the proper authorisation.

You already have a root password set, so you can safely answer 'n'.

Change the root password? [Y/n] n ... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone 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!

Descarga e Instalación de Owncloud

```
wget https://download.owncloud.org/community/owncloud-9.1.0.zip
unzip owncloud-9.1.0.zip
cp -r owncloud /var/www/html/
vim /etc/apache2/sites-available/owncloud.conf
```

```
-----owncloud.conf-----  
Alias /owncloud "/var/www/html/owncloud/"
```

```
<Directory /var/www/html/owncloud/>  
Options +FollowSymLinks  
AllowOverride All  
Satisfy Any
```

```
<IfModule mod_dav.c>  
Dav off  
</IfModule>
```

```
SetEnv HOME /var/www/html/owncloud  
SetEnv HTTP_HOME /var/www/html/owncloud
```

```
</Directory>
```

```
-----  
In -s /etc/apache2/sites-available/owncloud.conf /etc/apache2/sites-enabled/owncloud.conf  
a2enmod rewrite  
a2enmod headers  
a2enmod env  
a2enmod dir  
a2enmod  
service apache2 restart (si no funciona, basta con poner /etc/init.d/apache2 restart)  
chown -R www-data:www-data /var/www/html/owncloud/
```

```
mysql -uroot -p  
(Ingresamos password)  
CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'labsotp';  
CREATE DATABASE IF NOT EXISTS owncloud;  
GRANT ALL PRIVILEGES ON owncloud.* TO 'owncloud'@'localhost' IDENTIFIED BY  
'labsotp';  
FLUSH PRIVILEGES;  
QUIT;
```

```
-----  
Una vez que tenemos esto, debemos ir a un navegador web y configurar la cuenta de  
administrador de owncloud la cual es similar a la siguiente. Pero debemos ingresar los datos  
de nuestra base de datos y de nuestra cuenta de administrador.
```

a nuestro usuario decidimos ponerle

```
user = root  
password = labsotp
```

Segun la base de datos anterior nuestro usuario de base de datos es

db user = owncloud

dp password = labsotp

database = owncloud

host = localhost

admin

Storage & database ▾

Data folder

/var/www/html/owncloud/

Configure the database

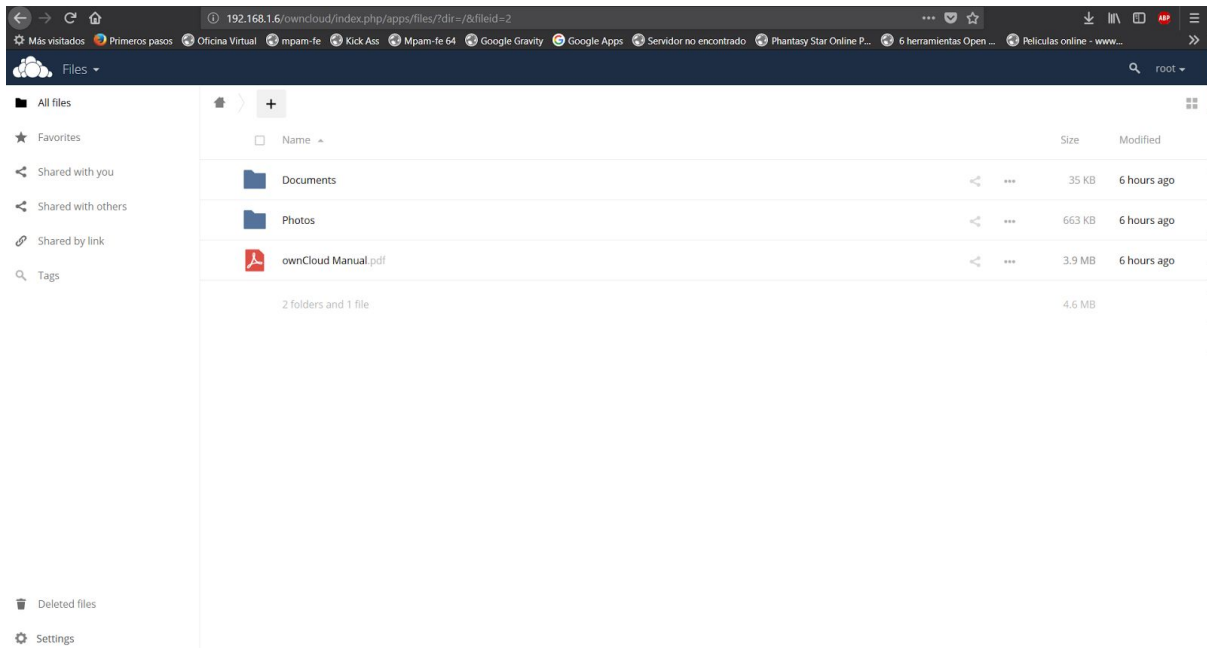
SQLite MySQL/MariaDB

clouddbuser

clouddb

localhost

Finish setup



Configuración de Zimbra Drive

debemos descargar este fichero <https://marketplace.owncloud.com/apps/zimbradrive>

extraerlo y moverlo a la carpeta `/var/www/html/owncloud/apps/`

luego debemos configurar el dominio en zimbra

```
nano /opt/zimbra/lib/ext/zimbradrive/zimbradrive-extension.conf
```

```
-----zimbradrive-extension.conf-----
{
"domains": {
    "tp.com": "http://zimbra.tp.com/owncloud/index.php"
}
}
```

```
cat /var/www/html/owncloud/config/config.php
```

```
-----config.php-----
php
<?php
$CONFIG = array (
    'instanceid' => 'ocvf7qvkl1sd',
```

```

'passwordsalt' => 's/frJDB17XLqk0zaAyhU4Tnps79t9j',
'secret' => 'rFZYv9UVHlrjT36MzyRg4GpP7rrgflh64w0yawD0zXEtpSb',
'trusted_domains' =>
array (
    0 => 'localhost',
    1 => '192.168.1.6',
    2 => 'zimbra.tp.com',
),
'datadirectory' => '/var/www/html/owncloud/data',
'overwrite.cli.url' => 'http://localhost/owncloud',
'dbtype' => 'mysql',
'version' => '9.1.7.2',
'dbname' => 'owncloud',
'dbhost' => 'localhost',
'dbtableprefix' => 'oc_',
'dbuser' => 'owncloud',
'dbpassword' => 'labsotp',
'logtimezone' => 'UTC',
'installed' => true,
'user_backends' =>
array (
    0 =>
array (
    'class' => 'OCA\ZimbraDrive\Auth\ZimbraUsersBackend',
    'arguments' =>
array (
    ),
),
),
);

```

```

-----
su zimbra
--desde root vamos al usuario zimbra
zmprov md tp.com zimbraDriveOwnCloudURL 'http://zimbra.tp.com/owncloud/index.php'
--seteamos para el dominio tp.com nuestro servidor de owncloud con su host
zmmailboxdctl restart
==reiniciamos para cargar los cambios
zmlocalconfig ssl_allow_accept_untrusted_certs
--deshabilitamos pedir certificados de confianza
zmprov generateDomainPreAuthKey tp.com
--generamos una clave de pre autenticación
exit
-- volvemos al usuario root
root@zimbra:/home/zimbra-tp/Descargas# cat /etc/hosts
-----hosts-----
192.168.1.6    zimbra.tp.com    zimbra
127.0.0.1    localhost
127.0.1.1    zimbra

```

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

```
-----
--verificamos el archivo hosts
```

```
root@zimbra:/home/zimbra-tp/Descargas# cat /etc/dnsmasq.conf
```

```
-----dnsmasq.conf-----
```

```
address=/zimbra.tp.com/192.168.1.6
address=/owncloud.tp.com/192.168.1.7
server=8.8.8.8
listen-address=127.0.0.1
domain=tp.com
mx-host=tp.com,zimbra.tp.com,0
```

```
-----
--verificamos la configuración de dns
```

```
root@zimbra:/home/zimbra-tp/Descargas# cat /etc/resolvconf/resolv.conf.d/tail
```

```
-----tail-----
```

```
nameserver 8.8.8.8
```

```
-----
-- a veces el segundo nameserver no lo toma automaticamente, asi que lo podemos
agregar como tail de resolv.conf
```

```
root@zimbra:/home/zimbra-tp/Descargas# cat /etc/network/interfaces
```

```
-----interfaces-----
```

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
```

```
# The loopback network interface
```

```
auto lo
iface lo inet loopback
```

```
# The primary network interface
```

```
allow-hotplug eth0
iface eth0 inet static
address 192.168.1.6
netmask 255.255.255.0
gateway 192.168.1.1
dns-nameservers 127.0.0.1
dns-nameservers 8.8.8.8
```

```
-----
-- nos fijamos que este todo correcto en nuestra configuración de red
```

Entramos a owncloud como administrador, nos fijamos las aplicaciones no activadas, y nos va a aparecer zimbra drive. la activamos con enable.

Volvemos a la configuración principal de owncloud y (desde un navegador distinto a firefox) debemos configurar nuestro plugin de zimbra drive de la siguiente manera:

Zimbra Drive

Version: 0.8.15

- Enable Zimbra authentication back end
- Allow Zimbra's users to log in

Zimbra Server

Zimbra Port

- Use SSL
- Enable certificate verification

Domain Preauth Key

cuando pongamos test page nos tiene que aparecer lo siguiente

[OK] Zimbra Drive app installation test : Zimbra Drive app is installed.

[OK] Enabled Zimbra's users test : Zimbra's users are enabled.

[OK] Enabled Zimbra's user login : Zimbra Drive authentication is enabled.

[OK] Is server url set test : The server url is set.

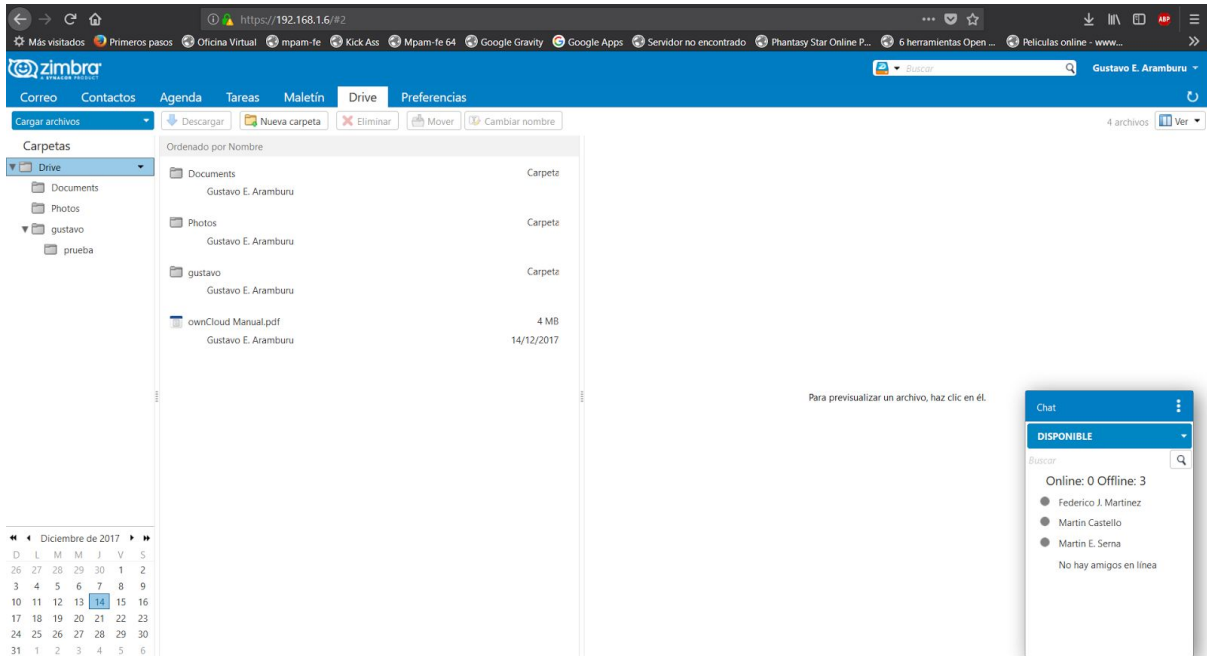
[OK] Is server port set test : The server port is set.

[OK] Zimbra host connection test : Zimbra Drive app can reach the host.

[OK] Zimbra authentication page connection test : Zimbra Drive app can reach Zimbra's authentication page.

[OK] Zimbra Drive extension connection test : Zimbra Drive app can reach Zimbra Drive extension.

Y con esto concluimos la configuración del plugin y deberíamos poder llegar desde cada usuario de zimbra a drive.



y nuestros usuarios de owncloud autoconfigurados por zimbra

Username	Password	Groups	Create		
Username	Full Name	Password	Groups	Group Admin for	Quota
6941f82b-d0ea-472d-9d19-b991a29e7c80	Martin E. Serna	*****	192.168.1.6, zimbra, zimbra...	no group	Default
052128ac-a2a1-4be4-8834-9b501026b426	Martin Castello	*****	192.168.1.6, zimbra, zimbra...	no group	Default
a087f8e9-6b5d-45f0-9013-993adb53e45e	Gustavo E. Aramburu	*****	192.168.1.6, zimbra, zimbra...	no group	Default
c84a67aa-05e4-4ca1-9537-c36e1cd676ec	Federico J. Martinez	*****	192.168.1.6, zimbra, zimbra...	no group	Default
e129a61c-9d4c-472b-b7a9-8c730f249268	admin@tp.com	*****	192.168.1.6, zimbra, zimbra...	no group	Default
root	root	*****	admin	no group	Default

Enlaces útiles que nos fueron de ayuda:

<https://www.jorgedelacruz.es/2017/04/03/zimbra-configuracion-de-zimbra-drive-owncloudnextcloud/>

<https://tecadmin.net/install-owncloud-on-ubuntu/#>

<https://www.jorgedelacruz.es/2017/03/31/zimbra-instalando-zimbra-8-7-6-sobre-ubuntu-14-04-lts-con-chat-y-drive/>

<https://github.com/ZeXtras/zimbra-drive>