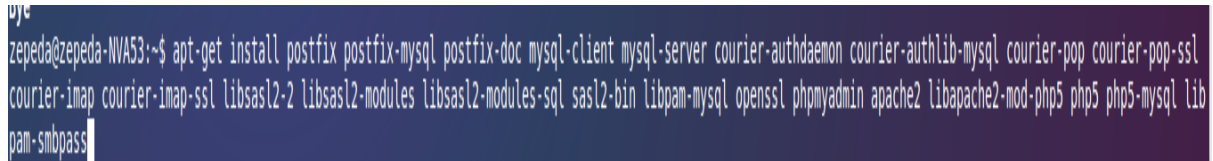


Servidor Postfix, IMAP, POP

* Instalación:

```
apt-get install postfix postfix-mysql postfix-doc mysql-client mysql-server courier-authdaemon courier-authlib-mysql courier-pop courier-pop-ssl courier-imap courier-imap-ssl libsasl2-2 libsasl2-modules libsasl2-modules-sql sasl2-bin libpam-mysql openssl phpmyadmin apache2 libapache2-mod-php5 php5 php5-mysql libpam-smbpass
```



```
zepeda@zepeda-NVA53:~$ apt-get install postfix postfix-mysql postfix-doc mysql-client mysql-server courier-authdaemon courier-authlib-mysql courier-pop courier-pop-ssl courier-imap courier-imap-ssl libsasl2-2 libsasl2-modules libsasl2-modules-sql sasl2-bin libpam-mysql openssl phpmyadmin apache2 libapache2-mod-php5 php5 php5-mysql libpam-smbpass
```

Es necesario poner en la configuracion de correo no para directorio , sitio de internet , dominio de correo y ok para SSL

* Parchamos postfix para aceptar limite o cuota de correo
apt-get build-dep postfix

```
cd /usr/src
apt-get source postfix
wget http://vda.sourceforge.net/VDA/postfix-vda-v13-2.10.0.patch
cd postfix-2.11.0
patch -p1 < ../postfix-vda-v13-2.10.0.patch
(este depende de cual version tengamos instalada ) editamos las reglas y ponemos lo siguiente vi debian/rules --> export DEB_BUILD_HARDENING=0
compilamos bien postfix dpkg-buildpackage
nos regresamos a la carpeta anterior y ejecutamos lo siguiente(depends de la version)
dpkg -i postfix_2.11.0-1_amd64.deb postfix-mysql_2.11.0-1_amd64.deb
```

Ahora se configura la base de datos

```
mysqladmin -u root -p create mail
```

ingresamos a la base de datos y creamos usuario con privilegios:

```
GRANT SELECT, INSERT, UPDATE, DELETE ON mail.* TO 'mail_admin'@'localhost' IDENTIFIED BY 'mail_admin_password';
GRANT SELECT, INSERT, UPDATE, DELETE ON mail.* TO 'mail_admin'@'localhost.localdomain' IDENTIFIED BY 'mail_admin_password';
FLUSH PRIVILEGES;
```

despues se usa la base mail y se crean las tablas :

```
CREATE TABLE domains (
  domain varchar(50) NOT NULL,
  PRIMARY KEY (domain) )
ENGINE=MyISAM;
```

```
CREATE TABLE forwardings (
  source varchar(80) NOT NULL,
  destination TEXT NOT NULL,
  PRIMARY KEY (source) )
ENGINE=MyISAM;
```

```
CREATE TABLE users (
email varchar(80) NOT NULL,
password varchar(20) NOT NULL,
quota INT(10) DEFAULT '10485760',
PRIMARY KEY (email)
) ENGINE=MyISAM;
```

(poblada se veria como lo siguiente< los usuarios deben tener contrasena encrypt)

```
4 rows in set (0.00 sec)

MariaDB [mail]> select * from domains;
+-----+
| domain |
+-----+
| corb.mx |
| lasdelicias.com |
| opentransfer.com |
| rgb2gray.com |
| socialideas.mx |
+-----+
5 rows in set (0.00 sec)

MariaDB [mail]> select * from forwardings;
+-----+-----+
| source | destination |
+-----+-----+
| carros@rgb2gray.com | peanut@rgb2gray.com |
| motos@rgb2gray.com | grape@rgb2gray.com |
+-----+-----+
2 rows in set (0.02 sec)

MariaDB [mail]> select * from users;
+-----+-----+-----+
| email | password | quota |
+-----+-----+-----+
| peanut@rgb2gray.com | C6DTGUDtKpBpI | 10485760 |
| grape@rgb2gray.com | ZPgo6mjQPuEwo | 10485760 |
| pasteleria@lasdelicias.com | 0KtRVLCYuFX6I | 10485760 |
| postmaster@opentransfer.com | iTAxmAfWkPFpI | 10485760 |
| contacto@corb.mx | AOLyWT0jYA1uQ | 10485760 |
| alvaro@socialideas.mx | SOCPGu7YJRiig | 10485760 |
| postmaster@rgb2gray.com | AlrTcdU8EM5FM | 10485760 |
| compras@socialideas.mx | Dks0TV19pRcko | 10485760 |
| prueba@rgb2gray.com | c893bad68927b457dbed | 10485760 |
+-----+-----+-----+
9 rows in set (0.03 sec)

MariaDB [mail]>
```

Ahora se crean los archivos que permitiran la conexion a la base de datos:

```
vi /etc/postfix/mysql-virtual_domains.cf
```

```
user = mail_admin
```

```
password = mail_admin_password
```

```
dbname = mail
```

```
query = SELECT domain AS virtual FROM domains WHERE domain='%s'
```

```
hosts = 127.0.0.1
```

```
vi /etc/postfix/mysql-virtual_forwardings.cf
```

```
user = mail_admin
```

```
password = mail_admin_password
```

```
dbname = mail
```

```
query = SELECT destination FROM forwardings WHERE source='%s'
```

```
hosts = 127.0.0.1
```

```
vi /etc/postfix/mysql-virtual_mailboxes.cf
```

```
user = mail_admin
```

```
password = mail_admin_password
```

```
dbname = mail
```

```
query = SELECT CONCAT(SUBSTRING_INDEX(email,'@',-1),'/',SUBSTRING_INDEX(email,'@',1),'/') FROM users WHERE email='%s'
```

```
hosts = 127.0.0.1
```

```
vi /etc/postfix/mysql-virtual_email2email.cf
```

```

user = mail_admin
password = mail_admin_password
dbname = mail
query = SELECT email FROM users WHERE email='%s'
hosts = 127.0.0.1
vi /etc/postfix/mysql-virtual_mailbox_limit_maps.cf
user = mail_admin
password = mail_admin_password
dbname = mail
query = SELECT quota FROM users WHERE email='%s'
hosts = 127.0.0.1

```

```

zepeda@zepeda-NVA53:/etc/postfix$ ls
dynamicmaps.cf  mysql-virtual_domains.cf  mysql-virtual_mailboxes.cf  postfix-files  sasl
main.cf          mysql-virtual_email2email.cf  mysql-virtual_mailbox_limit_maps.cf  postfix-script  smtpd.cert
master.cf        mysql-virtual_forwardings.cf  mysql-virtual_transports.cf  post-install    smtpd.key
zepeda@zepeda-NVA53:/etc/postfix$

```

cambiamos los permisos de los archivos para que los pueda abrir postfix

```

chmod o= /etc/postfix/mysql-virtual_*.cf
chgrp postfix /etc/postfix/mysql-virtual_*.cf

```

y se crea el usuario para que ingrese a la carpeta de buzones

```

groupadd -g 5000 vmail
useradd -g vmail -u 5000 vmail -d /home/vmail -m

```

Ahora se agrega la configuracion al archivo de postfix main.cf

```

postconf -e 'myhostname = server1.example.com'
postconf -e 'mydestination = server1.example.com, localhost, localhost.localdomain'
postconf -e 'mynetworks = 127.0.0.0/8'
postconf -e 'virtual_alias_domains ='
postconf -e 'virtual_alias_maps = proxy:mysql:/etc/postfix/mysql-virtual_forwardings.cf, mysql:/etc/postfix/mysql-virtual_email2email.cf'
postconf -e 'virtual_mailbox_domains = proxy:mysql:/etc/postfix/mysql-virtual_domains.cf'
postconf -e 'virtual_mailbox_maps = proxy:mysql:/etc/postfix/mysql-virtual_mailboxes.cf'
postconf -e 'virtual_mailbox_base = /home/vmail'
postconf -e 'virtual_uid_maps = static:5000'
postconf -e 'virtual_gid_maps = static:5000'
postconf -e 'smtpd_sasl_auth_enable = yes'
postconf -e 'broken_sasl_auth_clients = yes'
postconf -e 'smtpd_sasl_authenticated_header = yes'
postconf -e 'smtpd_recipient_restrictions = permit_mynetworks, permit_sasl_authenticated, reject_unauth_destination'
postconf -e 'smtpd_use_tls = yes'
postconf -e 'smtpd_tls_cert_file = /etc/postfix/smtpd.cert'
postconf -e 'smtpd_tls_key_file = /etc/postfix/smtpd.key'

postconf -e 'virtual_maildir_extended = yes'

```

```

postconf -e 'virtual_mailbox_limit_maps = proxy:mysql:/etc/postfix/mysql-virtual_mailbox_limit_maps.cf'
postconf -e 'virtual_mailbox_limit_override = yes'
postconf -e 'virtual_maildir_limit_message = "The user you are trying to reach is over quota."'
postconf -e 'virtual_overquota_bounce = yes'
postconf -e 'proxy_read_maps = $local_recipient_maps $mydestination $virtual_alias_maps $virtual_alias_domains $virtual_mailbox_maps $virtual_mailbox_domains $relay_recipient_maps $relay_domains $canonical_maps $sender_canonical_maps $recipient_canonical_maps $relocated_maps $transport_maps $mynetworks $virtual_mailbox_limit_maps'

```

```

tls_cert_file = /etc/postfix/smtpd.cert
tls_key_file = /etc/postfix/smtpd.key
use_tls = yes
tls_session_cache_database = btree:${data_directory}/smtpd_scache
tls_session_cache_database = btree:${data_directory}/smtp_scache

/usr/share/doc/postfix/TLS_README.gz in the postfix-doc package for
information on enabling SSL in the smtp client.

relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
name = localhost
maps = hash:/etc/aliases
database = hash:/etc/aliases
maildir_path = /etc/mailname
myhostname = localhost.localdomain, localhost
myorigin =
mydestination = 127.0.0.8
myxfer_size_limit = 0
mydestination_delimiter = +
mydestination_interfaces = all
mydestination_directory = /usr/share/doc/postfix/html
mydestination_alias_domains =
mydestination_alias_maps = proxy:mysql:/etc/postfix/mysql-virtual_forwardings.cf, mysql:/etc/postfix/mysql-virtual_email2email.cf
mydestination_mailbox_domains = proxy:mysql:/etc/postfix/mysql-virtual_domains.cf
mydestination_mailbox_maps = proxy:mysql:/etc/postfix/mysql-virtual_mailboxes.cf
mydestination_mailbox_base = /home/vmail
mydestination_mailuid_maps = static:5000
mydestination_mailgid_maps = static:5000
mydestination_sasl_auth_enable = yes
mydestination_sasl_auth_clients = yes
mydestination_sasl_authenticated_header = yes
mydestination_recipient_restrictions = permit_mynetworks, permit_sasl_authenticated, reject_unauth_destination
mydestination_sort_maps = proxy:mysql:/etc/postfix/mysql-virtual_transports.cf
mydestination_maildir_extended = yes
mydestination_mailbox_limit_maps = proxy:mysql:/etc/postfix/mysql-virtual_mailbox_limit_maps.cf
mydestination_mailbox_limit_override = yes
mydestination_maildir_limit_message = "The user you are trying to reach is over quota."
mydestination_overquota_bounce = yes

```

cd /etc/postfix

openssl req -new -outform PEM -out smtpd.cert -newkey rsa:2048 -nodes -keyout smtpd.key -keyform PEM -days 365 -x509

Con este comando se genera un certificado para el servidor y ahora se cambian los permisos del certificado `chmod o= /etc/postfix/smtpd.key`

creamos la siguiente carpeta `mkdir -p /var/spool/postfix/var/run/saslauthd` y modificamos el archivo `/etc/default/saslauthd` al cual le agregaremos en `start` `yes` y en `options` lo siguiente `OPTIONS="-c -m /var/spool/postfix/var/run/saslauthd -r"`, ahora se edita el siguiente archivo `/etc/pam.d/smtp` y agregamos las líneas `auth required pam_mysql.so user=mail_admin passwd=mail_admin_password host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password crypt=1`

`account sufficient pam_mysql.so user=mail_admin passwd=mail_admin_password`

host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password
crypt=1

```
auth required pam_mysql.so user=mail_admin passwd=mail_admin_password host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password crypt=1
account sufficient pam_mysql.so user=mail_admin passwd=mail_admin_password host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password crypt=1
```

ahora se crea el siguiente archivo
/etc/postfix/sasl/smtpd.conf

```
pwcheck_method: saslauthd
mech_list: plain login
allow_plaintext: true
auxprop_plugin: sql
sql_engine: mysql
sql_hostnames: 127.0.0.1
sql_user: mail_admin
sql_passwd: mail_admin_password
sql_database: mail
sql_select: select password from users where email = '%u@%r'
```

el cual contiene instrucciones sobre la base de datos.

después de ello agregamos el usuario postfix al grupo sasl

adduser postfix sasl y reiniciamos servicio postfix restart service saslauthd
restart,

ahora configuraremos el servicio courier al cual después de abrirlo se agregara la
linea

```
/etc/courier/authdaemonrc
authmodulelist="authmysql"
```

eliminamos la información de este archivo y lo modificamos agregando lo siguiente

```
cat /dev/null > /etc/courier/authmysqlrc
```

```
MYSQL_SERVER localhost
MYSQL_USERNAME mail_admin
MYSQL_PASSWORD mail_admin_password
MYSQL_PORT 0
MYSQL_DATABASE mail
MYSQL_USER TABLE users
MYSQL_CRYPT PWFIELD password
#MYSQL_CLEAR PWFIELD password
MYSQL_UID FIELD 5000
MYSQL_GID FIELD 5000
MYSQL_LOGIN FIELD email
MYSQL_HOME_FIELD "/home/vmail"
MYSQL_MAILDIR_FIELD CONCAT(SUBSTRING_INDEX(email,'@',-1),'/',SUBSTRING_INDEX(email,'@',1),'/')
#MYSQL_NAME FIELD
MYSQL_QUOTA FIELD quota
```

ahora vamos a courier y eliminamos certificados de imap y pop

```
cd /etc/courier
```

```
rm -f /etc/courier/imapd.pem
```

```
rm -f /etc/courier/pop3d.pem
```

después abrimos el archivo de pop [pop3d.cnf] e imap [imapd.cnf] y ponemos en
CN= nuestro dominio real , recreamos los certificados mkimapdcert

```
mkpop3dcert
```

por ultimo reiniciamos los servicio

```
service courier-authdaemon restart
```

```
service courier-imap restart
```

service courier-imap-ssl restart
service courier-pop restart
service courier-pop-ssl restart

y el servidor esta listo para ser usado

