



**UNIVERSIDAD
GERARDO BARRIOS**

Líderes en Gestión del Conocimiento

DOCENTE:

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FACULTAD:

CIENCIAS Y TECNOLOGÍA

MATERIA:

CONFIGURACIÓN DE SERVIDORES Y CLÚSTERES PARA BASES DE
DATOS

TEMA:

SERVIDOR DE CORREO

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FECHA:

JUEVES, 29 DE SEPTIEMBRE DEL 2022

SAN MIGUEL

PARTE I: Instalación de utilidades de Postfix.

1. Instalación:

yum install postfix

```
[root@dns1 ugbred]# yum install postfix
Updating Subscription Management repositories.
Last metadata expiration check: 0:03:06 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
postfix                        x86_64            2:3.5.8-4.el8     rhel-8-for-x86_64-baseos-rpms 1.5 M
Transaction Summary
=====
Install 1 Package
```

yum install mailx

```
[root@dns1 ugbred]# yum install mailx
Updating Subscription Management repositories.
Last metadata expiration check: 0:03:59 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
mailx                          x86_64            12.5-29.el8       rhel-8-for-x86_64-baseos-rpms 257 k
Transaction Summary
=====
Install 1 Package
```

yum install cyrus-sasl-plain

```
[root@dns1 ugbred]# yum install cyrus-sasl-plain.x86_64
Updating Subscription Management repositories.
Last metadata expiration check: 0:11:15 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Package cyrus-sasl-plain-2.1.27-6.el8_5.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

yum install cyrus-sasl-lib

```
[root@dns1 ugbred]# yum install cyrus-sasl-lib.x86_64
Updating Subscription Management repositories.
Last metadata expiration check: 0:51:05 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Package cyrus-sasl-lib-2.1.27-6.el8_5.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dns1 ugbred]# █
```

yum install cyrus-sasl-md5

```
[root@dns1 ugbred]# yum install cyrus-sasl-md5.x86_64
Updating Subscription Management repositories.
Last metadata expiration check: 0:09:49 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
cyrus-sasl-md5                x86_64            2.1.27-6.el8_5     rhel-8-for-x86_64-baseos-rpms 66 k
```

yum install cyrus-sasl-scam

```
[root@dns1 ugbred]# yum install cyrus-sasl-scam.x86_64
Updating Subscription Management repositories.
Last metadata expiration check: 0:11:49 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
cyrus-sasl-scam               x86_64            2.1.27-6.el8_5     rhel-8-for-x86_64-baseos-rpms 52 k
Transaction Summary
=====
Install 1 Package
```

yum install cyrus-sasl-gssapi

```
[root@dns1 ugbred]# yum install cyrus-sasl-gssapi.x86_64
Updating Subscription Management repositories.
Last metadata expiration check: 0:13:09 ago on Thu 29 Sep 2022 07:25:07 AM PDT.
Package cyrus-sasl-gssapi-2.1.27-6.el8_5.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

2. Configuración previa para enviar correos electrónicos e-mail usando servidor SMTP externo en Linux de conexión al servidor SMTP (el servidor, usuario y contraseña). Para ello ejecutaremos: En primer lugar, crearemos el fichero con los datos de conexión al servidor SMTP (el servidor, usuario y contraseña). Para ello ejecutaremos:

```
[root@dns1 ugbred]#
[root@dns1 ugbred]# nano /etc/postfix/sasl_passwd
[root@dns1 ugbred]#
```

Para un servidor de correo electrónico como GMail el contenido podría ser:

```
File Edit View Search Terminal Help
GNU nano 2.9.8 /etc/postfix/sasl_passwd
[smtp.gmail.com]:587 victorcanas871@gmail.com:1234
```

```
File Edit View Search Terminal Help
GNU nano 2.9.8 /etc/postfix/sasl_passwd
[smtp.gmail.com]:587 leonv7232@gmail.com:Barrios.02
```

Posteriormente hay que indicarle a postfix que utilice este archivo y lo encripte, lo cual generará un archivo adicional con terminación .db

```
[root@dns1 ugbred]# postmap /etc/postfix/sasl_passwd
[root@dns1 ugbred]#
```

Estableceremos la seguridad para este fichero con los comandos:

```
[root@dns1 ugbred]#
[root@dns1 ugbred]# chown root.root /etc/postfix/sasl_passwd*
[root@dns1 ugbred]#
[root@dns1 ugbred]# chmod 400 /etc/postfix/sasl_passwd
```

Verificamos con un ls

```
[root@dns1 ugbred]# ls /etc/postfix
access      dynamicmaps.cf  generic      main.cf      master.cf    postfix-files  relocated    sasl_passwd.db  virtual
canonical   dynamicmaps.cf.d header_checks main.cf.proto master.cf.proto postfix-files.d sasl_passwd  transport
```

3. Editando el archivo main.cf

Editar el archivo de configuración de postfix /etc/postfix/main.cf y agregue al final del contenido las siguientes líneas:

```
[root@dns1 ugbred]#
[root@dns1 ugbred]# nano /etc/postfix/main.cf
[root@dns1 ugbred]#
```

```
relayhost = [smtp.gmail.com]:587
smtp_sasl_auth_enable = yes
smtp_sasl_password_maps = hash:/etc/postfix/sasl_passwd
smtp_sasl_security_options = noanonymous
```

Para que los cambios se aplique tendremos que reiniciar el servicio de Postfix:

```
[root@dns1 ugbred]# systemctl restart postfix.service
[root@dns1 ugbred]#
```

```
[root@dns1 ugbred]# systemctl status postfix.service
● postfix.service - Postfix Mail Transport Agent
   Loaded: loaded (/usr/lib/systemd/system/postfix.service; disabled; vendor preset: disabled)
   Active: active (running) since Thu 2022-09-29 08:38:34 PDT; 13s ago
     Process: 7553 ExecStart=/usr/sbin/postfix start (code=exited, status=0/SUCCESS)
    Process: 7551 ExecStartPre=/usr/libexec/postfix/chroot-update (code=exited, status=0/SUCCESS)
    Process: 7545 ExecStartPre=/usr/libexec/postfix/aliasesdb (code=exited, status=0/SUCCESS)
    Process: 7544 ExecStartPre=/usr/sbin/restorecon -R /var/spool/postfix/pid/master.pid (code=exited, status=255)
   Main PID: 7622 (master)
      Tasks: 3 (limit: 100911)
     Memory: 4.4M
    CGroup: /system.slice/postfix.service
            └─7622 /usr/libexec/postfix/master -w
              └─7623 pickup -l -t unix -u
                └─7624 qmgr -l -t unix -u
```

4. Probando el envío:

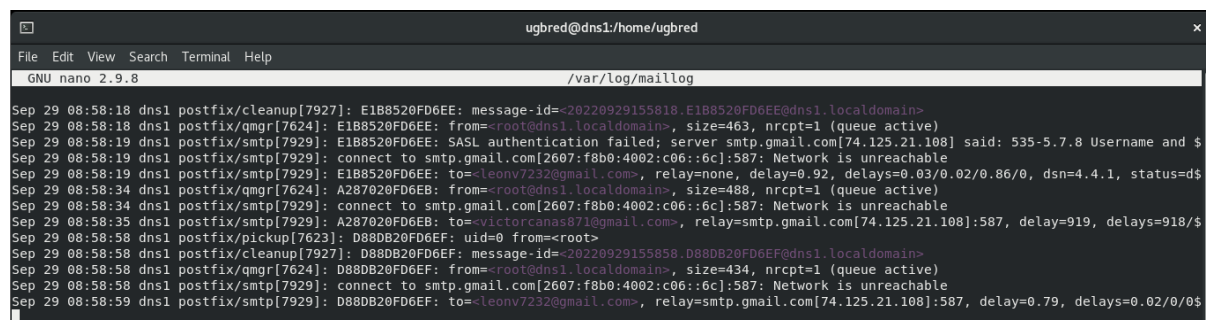
Prueba de envío de email desde la consola de RedHat con el comando mail Para comprobar que hemos establecido la configuración correcta de Postfix en RedHat podemos usar el comando mail. Por ejemplo, introduciendo:

```
[root@dns1 ugbred]# mail victorcanas871@gmail.com
Subject: prueba envio
esta es una prueba de envio desde un MTA
EOT

EOT
[root@dns1 ugbred]#
[root@dns1 ugbred]#
```

Para ver el fichero de log de envío de mails podemos ejecutar:

```
[root@dns1 ugbred]# nano /var/log/maillog
[root@dns1 ugbred]#
```



```
ugbred@dns1:/home/ugbred
File Edit View Search Terminal Help
GNU nano 2.9.8 /var/log/maillog
Sep 29 08:58:18 dns1 postfix/cleanup[7927]: E1B8520FD6EE: message-id=<20220929155818.E1B8520FD6EE@dns1.localdomain>
Sep 29 08:58:18 dns1 postfix/qmgr[7624]: E1B8520FD6EE: from=<root@dns1.localdomain>, size=463, nrcpt=1 (queue active)
Sep 29 08:58:19 dns1 postfix/smtp[7929]: E1B8520FD6EE: SASL authentication failed; server smtp.gmail.com[74.125.21.108] said: 535-5.7.8 Username and $
Sep 29 08:58:19 dns1 postfix/smtp[7929]: connect to smtp.gmail.com[2607:f8b0:4002:c06::6c]:587: Network is unreachable
Sep 29 08:58:19 dns1 postfix/smtp[7929]: E1B8520FD6EE: to=<leonv7232@gmail.com>, relay=none, delay=0.92, delays=0.03/0.02/0.86/0, dsn=4.4.1, status=d$
Sep 29 08:58:34 dns1 postfix/qmgr[7624]: A287020FD6EB: from=<root@dns1.localdomain>, size=488, nrcpt=1 (queue active)
Sep 29 08:58:34 dns1 postfix/smtp[7929]: connect to smtp.gmail.com[2607:f8b0:4002:c06::6c]:587: Network is unreachable
Sep 29 08:58:35 dns1 postfix/smtp[7929]: A287020FD6EB: to=<victorcanas871@gmail.com>, relay=smtp.gmail.com[74.125.21.108]:587, delay=919, delays=918/$
Sep 29 08:58:58 dns1 postfix/pickup[7623]: D88DB20FD6EF: uid=0 from=<root>
Sep 29 08:58:58 dns1 postfix/cleanup[7927]: D88DB20FD6EF: message-id=<20220929155858.D88DB20FD6EF@dns1.localdomain>
Sep 29 08:58:58 dns1 postfix/qmgr[7624]: D88DB20FD6EF: from=<root@dns1.localdomain>, size=434, nrcpt=1 (queue active)
Sep 29 08:58:58 dns1 postfix/smtp[7929]: connect to smtp.gmail.com[2607:f8b0:4002:c06::6c]:587: Network is unreachable
Sep 29 08:58:59 dns1 postfix/smtp[7929]: D88DB20FD6EF: to=<leonv7232@gmail.com>, relay=smtp.gmail.com[74.125.21.108]:587, delay=0.79, delays=0.02/0/0$
```

PARTE II: Configuración de nuestro firewall

1. Verificar servicios permitidos en firewall-cmd

```
[root@dns1 ugbred]# firewall-cmd --zone="public" --list-services  
cockpit dhcpv6-client dns samba samba-client ssh
```

Agremos las siguientes reglas:

```
[root@dns1 ugbred]#  
[root@dns1 ugbred]# firewall-cmd --permanent --add-service=smtp  
success  
[root@dns1 ugbred]#  
[root@dns1 ugbred]# firewall-cmd --reload  
success  
[root@dns1 ugbred]#
```

```
[root@dns1 ugbred]# firewall-cmd --zone="public" --list-services  
cockpit dhcpv6-client dns samba samba-client smtp ssh  
[root@dns1 ugbred]#
```