

Send Email Via Bash Script

Install mailutils it will automatically install postfix

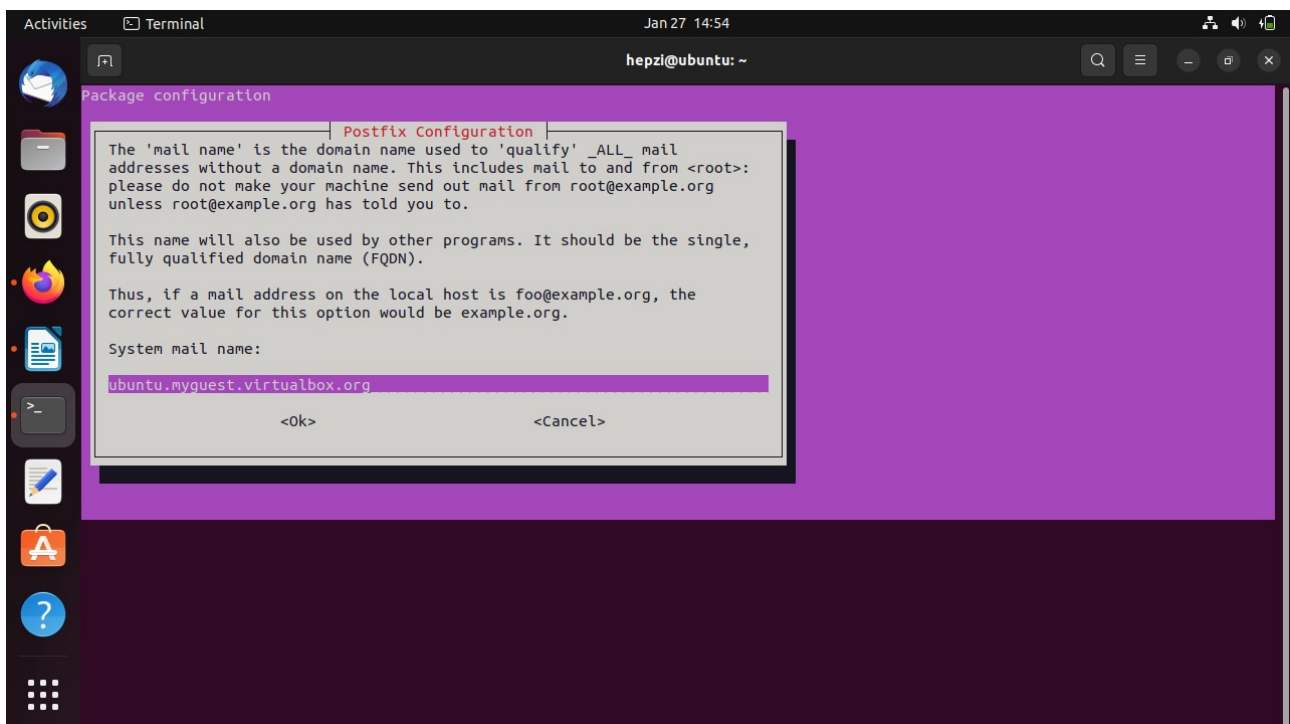
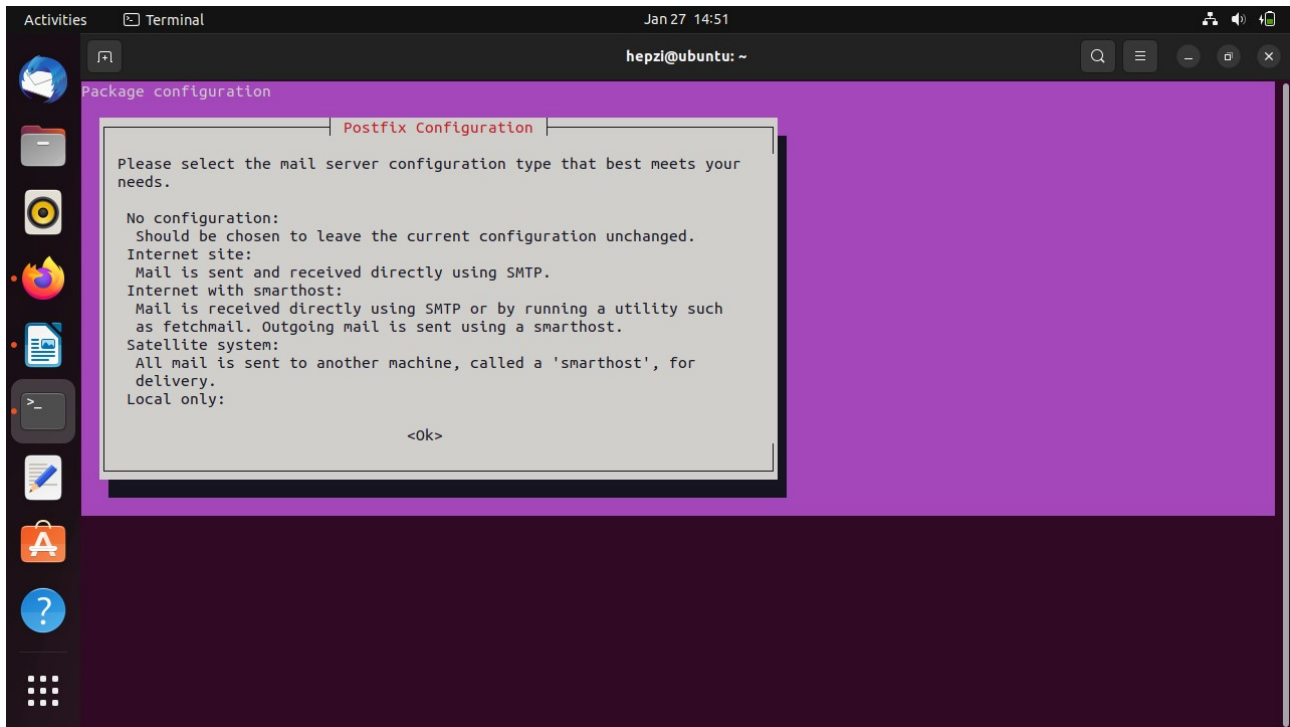
hepzi@ubuntu:~\$ sudo apt install mailutils

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Select internet site and click ok



Edit the postfix configuration file :

hepzi@ubuntu:~\$ sudo nano /etc/postfix/main.cf

[sudo] password for hepzi:

Find the following line relayhost= about 6lines from bottom and delete it Repalce it

relayhost = [smtp.gmail.com]:587

smtp_sasl_auth_enable = yes

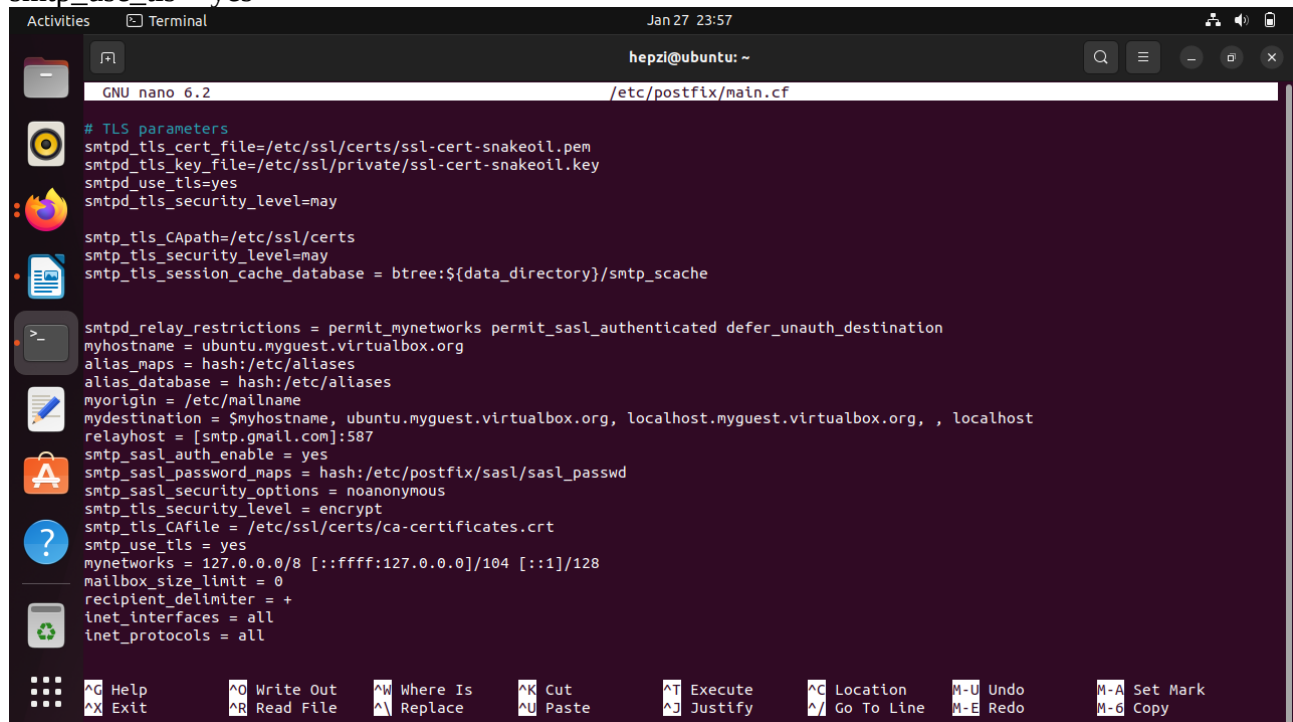
smtp_sasl_password_maps = hash:/etc/postfix/sasl/sasl_passwd

smtp_sasl_security_options = noanonymous

smtp_tls_security_level = encrypt

smtp_tls_CAfile = /etc/ssl/certs/ca-certificates.crt

smtp_use_tls = yes



```
GNU nano 6.2 /etc/postfix/main.cf

# TLS parameters
smtpd_tls_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
smtpd_tls_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
smtpd_use_tls=yes
smtpd_tls_security_level=may

smtpd_tls_CApath=/etc/ssl/certs
smtpd_tls_security_level=may
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = ubuntu.myquest.virtualbox.org
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = $myhostname, ubuntu.myquest.virtualbox.org, localhost.myquest.virtualbox.org, , localhost
relayhost = [smtp.gmail.com]:587
smtp_sasl_auth_enable = yes
smtp_sasl_password_maps = hash:/etc/postfix/sasl/sasl_passwd
smtp_sasl_security_options = noanonymous
smtp_tls_security_level = encrypt
smtp_tls_CAfile = /etc/ssl/certs/ca-certificates.crt
smtp_use_tls = yes
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all

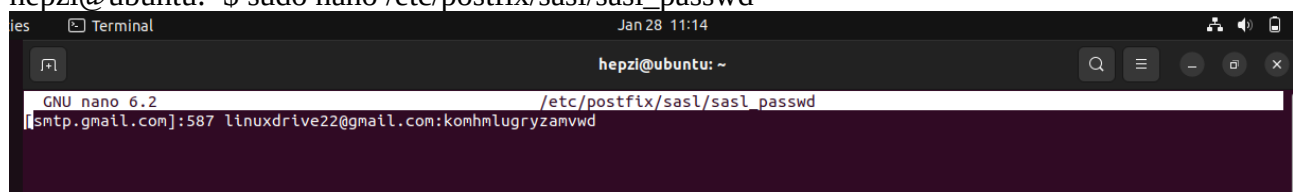
Help Exit Write Out Read File Where Is Replace Cut Paste Execute Justify Location Go To Line Undo Redo Set Mark Copy
```

hepzi@ubuntu:~\$ sudo postfix reload

postfix/postfix-script: refreshing the Postfix mail system

Create the sasl_passwd file which will store our credentials

hepzi@ubuntu:~\$ sudo nano /etc/postfix/sasl/sasl_passwd



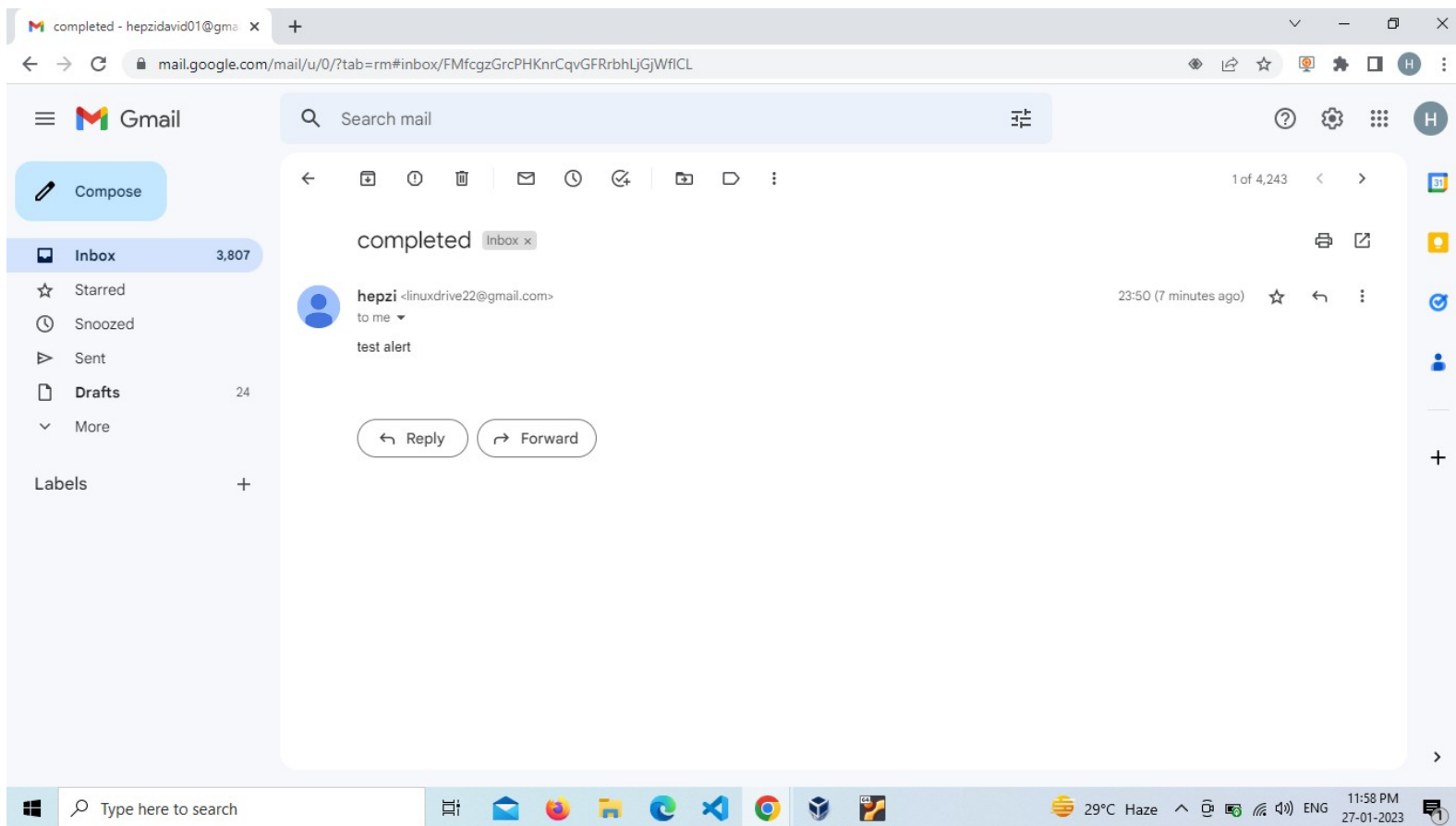
```
GNU nano 6.2 /etc/postfix/sasl/sasl_passwd
[smtp.gmail.com]:587 linuxdrive22@gmail.com:komhmlugryzamvwd
```

Create a hash database file for postfix with postmap command

hepzi@ubuntu:~\$ sudo postmap /etc/postfix/sasl/sasl_passwd

Send a test mail

hepzi@ubuntu:~\$ echo "test alert" | mail -s "completed" hepzidavid01@gmail.com



To check mail error log

hepzi@ubuntu:~\$ sudo tail -f /var/log/mail.log

Jan 27 23:49:57 ubuntu postfix/pickup[4069]: C8686651EF: uid=1000

from=<hepzi@ubuntu.myguest.virtualbox.org>

Jan 27 23:49:57 ubuntu postfix/cleanup[4240]: C8686651EF: message-

id=<20230127181957.C8686651EF@ubuntu.myguest.virtualbox.org>

Jan 27 23:49:57 ubuntu postfix/qmgr[4068]: C8686651EF:

from=<hepzi@ubuntu.myguest.virtualbox.org>, size=391, nrcpt=1 (queue active)

Jan 27 23:50:02 ubuntu postfix/smtp[4242]: C8686651EF: to=<hepzidavid01@gmail.com>,

relay=smtp.gmail.com[142.250.4.108]:587, delay=5.2, delays=0.35/0.71/2.9/1.2, dsn=2.0.0,

status=sent (250 2.0.0 OK 1674843602 d14-

20020a17090a498e00b00229ff1fd7e0sm5321046pjh.14 - gsmtpt)

Jan 27 23:50:02 ubuntu postfix/qmgr[4068]: C8686651EF: removed

Create group and add add user to the group

To create group

hepzi@ubuntu:~\$ sudo groupadd hpzz

[sudo] password for hepzi:

To add existing user to the group

```
hepzi@ubuntu:~$ sudo usermod -a -G hpzz hepzi  
[sudo] password for hepzi:
```

To create new user

```
hepzi@ubuntu:~$ sudo useradd david
```

To add existing user to the group

```
hepzi@ubuntu:~$ sudo usermod -a -G hpzz david
```

To add existing user to the group

```
hepzi@ubuntu:~$ sudo usermod -a -G hpzz john
```

To check the group and users

```
hepzi@ubuntu:/$ sudo cat /etc/group
```

```
root:x:0:  
daemon:x:1:  
bin:x:2:  
sys:x:3:  
adm:x:4:syslog  
tty:x:5:  
disk:x:6:  
lp:x:7:  
mail:x:8:  
news:x:9:  
uucp:x:10:  
man:x:12:  
proxy:x:13:  
kmem:x:15:  
dialout:x:20:  
fax:x:21:  
voice:x:22:  
cdrom:x:24:  
floppy:x:25:  
tape:x:26:  
sudo:x:27:  
audio:x:29:pulse  
dip:x:30:  
www-data:x:33:  
backup:x:34:  
operator:x:37:  
list:x:38:  
irc:x:39:  
src:x:40:  
gnats:x:41:  
shadow:x:42:  
utmp:x:43:  
video:x:44:  
sasl:x:45:  
plugdev:x:46:  
staff:x:50:  
games:x:60:  
users:x:100:
```

nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
crontab:x:104:
messagebus:x:105:
systemd-timesync:x:106:
input:x:107:
sgx:x:108:
kvm:x:109:
render:x:110:
syslog:x:111:
tss:x:112:
bluetooth:x:113:
ssl-cert:x:114:
uuuid:x:115:
systemd-oom:x:116:
tcpdump:x:117:
_ssh:x:118:
avahi-autoipd:x:119:
netdev:x:120:
avahi:x:121:
lpadmin:x:122:
rtkit:x:123:
whoopsie:x:124:
sssd:x:125:
nm-openvpn:x:126:
scanner:x:127:saned
saned:x:128:
colord:x:129:
geoclue:x:130:
pulse:x:131:
pulse-access:x:132:
gdm:x:133:
lxd:x:134:
hepzi:x:1000:
sambashare:x:135:
fwupd-refresh:x:136:
mysql:x:137:
postfix:x:138:
postdrop:x:139:
hpzz:x:1001:hepzi,david,john
david:x:1002:

To view the user id number

```
hepzi@ubuntu:~$ id hepzi  
uid=1000(hepzi) gid=1000(hepzi) groups=1000(hepzi),1001(hpzz)
```

Disable unnecessary services

To see what services are running

```
hepzi@ubuntu:~$ sudo service --status-all
```

```
[ + ] acpid
[ - ] alsa-utils
[ - ] anacron
[ - ] apache-htcacheclean
[ + ] apache2
[ + ] apparmor
[ + ] apport
[ + ] avahi-daemon
[ - ] bluetooth
[ - ] console-setup.sh
[ + ] cron
[ + ] cups
[ + ] cups-browsed
[ + ] dbus
[ + ] fail2ban
[ + ] gdm3
[ - ] grub-common
[ - ] hwclock.sh
[ + ] irqbalance
[ + ] kerneloops
[ - ] keyboard-setup.sh
[ + ] kmod
[ + ] mysql
[ + ] networking
[ - ] nginx
[ - ] open-vm-tools
[ + ] openvpn
[ - ] plymouth
[ + ] plymouth-log
[ + ] postfix
[ + ] procs
[ - ] pulseaudio-enable-autospawn
[ - ] rsync
[ - ] saned
[ - ] smartmontools
[ - ] speech-dispatcher
[ - ] spice-vdagent
[ + ] udev
[ + ] ufw
[ + ] unattended-upgrades
[ - ] uuidd
[ - ] whoopsie
[ - ] x11-common
```

To fully disable the service use the systemctl followed by disable

```
hepzi@ubuntu:~$ sudo systemctl disable apache2
```

```
[sudo] password for hepzi:
```

Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.

Executing: /lib/systemd/systemd-sysv-install disable apache2

Removed /etc/systemd/system/multi-user.target.wants/apache2.service.

To enable the service

```
hepzi@ubuntu:~$ sudo systemctl enable apache2
```

Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.

Executing: /lib/systemd/systemd-sysv-install enable apache2

Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.