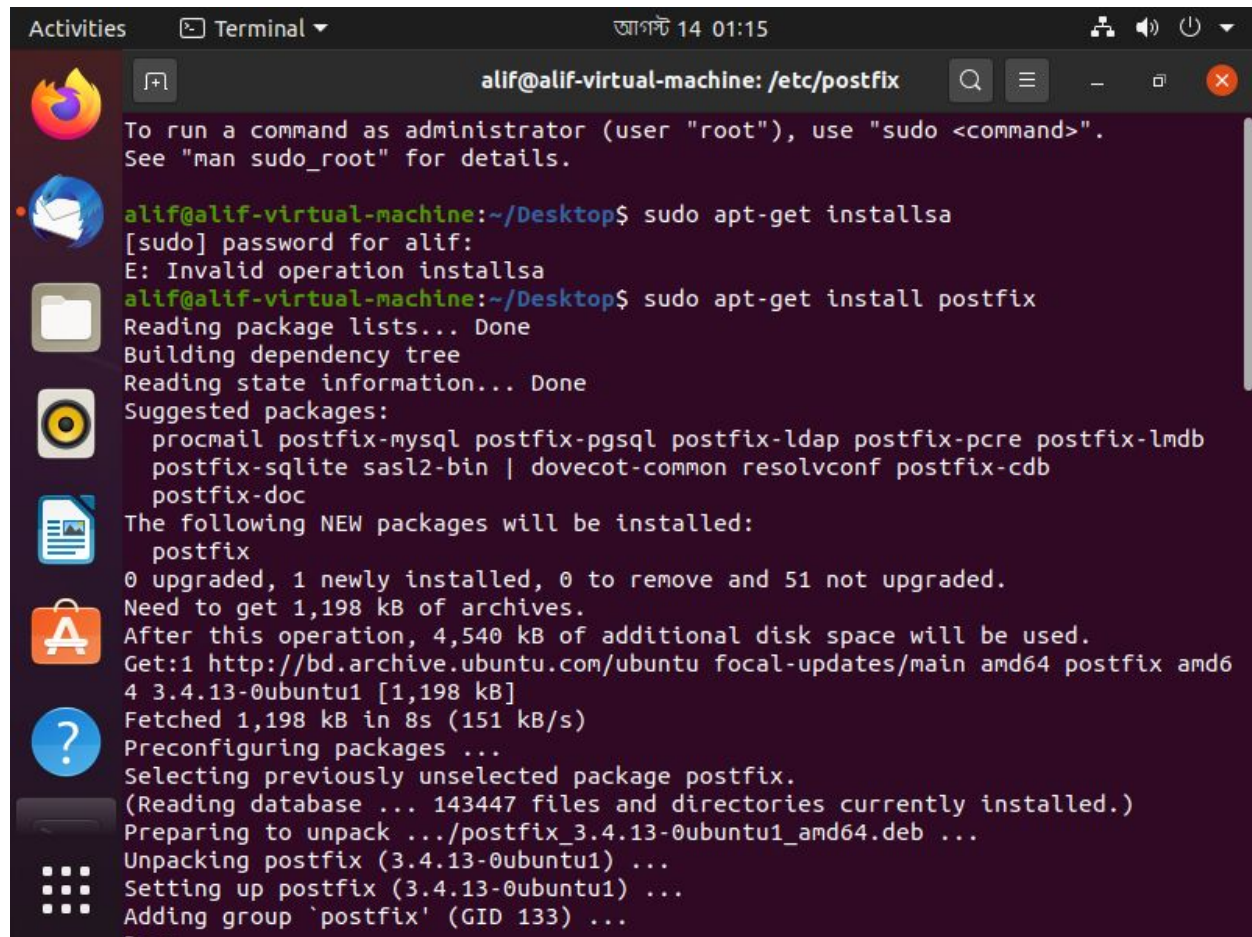


1st step:

```
>>sudo apt-get install postfix  
select > Internet Site  
alif.com>Ok
```

A terminal window titled 'alif@alif-virtual-machine: /etc/postfix' is shown. The window has a dark background with light-colored text. The left sidebar shows various application icons. The terminal output shows the user 'alif' attempting to install 'installsa' and then 'postfix'. The 'postfix' installation proceeds successfully, showing package lists, dependency trees, and disk space requirements. The final output shows the postfix package being unpacked and set up.

```
alif@alif-virtual-machine: /etc/postfix  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
alif@alif-virtual-machine:~/Desktop$ sudo apt-get installsa  
[sudo] password for alif:  
E: Invalid operation installsa  
alif@alif-virtual-machine:~/Desktop$ sudo apt-get install postfix  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Suggested packages:  
  procmail postfix-mysql postfix-pgsql postfix-ldap postfix-pcre postfix-lmdb  
  postfix-sqlite sasl2-bin | dovecot-common resolvconf postfix-cdb  
  postfix-doc  
The following NEW packages will be installed:  
  postfix  
0 upgraded, 1 newly installed, 0 to remove and 51 not upgraded.  
Need to get 1,198 kB of archives.  
After this operation, 4,540 kB of additional disk space will be used.  
Get:1 http://bd.archive.ubuntu.com/ubuntu focal-updates/main amd64 postfix amd6  
4 3.4.13-0ubuntu1 [1,198 kB]  
Fetched 1,198 kB in 8s (151 kB/s)  
Preconfiguring packages ...  
Selecting previously unselected package postfix.  
(Reading database ... 143447 files and directories currently installed.)  
Preparing to unpack .../postfix_3.4.13-0ubuntu1_amd64.deb ...  
Unpacking postfix (3.4.13-0ubuntu1) ...  
Setting up postfix (3.4.13-0ubuntu1) ...  
Adding group `postfix' (GID 133) ...  
Done
```

2nd step:

```
>>cd /etc/postfix/  
>>ll
```

```
Activities Terminal  আপট 14 01:16
alif@alif-virtual-machine: /etc/postfix

After modifying main.cf, be sure to run 'systemctl reload postfix'.

Running newaliases
Created symlink /etc/systemd/system/multi-user.target.wants/postfix.service → /lib/systemd/system/postfix.service.
Processing triggers for ufw (0.36-6) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for rsyslog (8.2001.0-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
alif@alif-virtual-machine:~/Desktop$ cd /etc/postfix/
alif@alif-virtual-machine:/etc/postfix$ ll
total 136
drwxr-xr-x  5 root root  4096 আট 14 01:14 ./
drwxr-xr-x 132 root root 12288 আট 14 01:14 ../
-rw-r--r--  1 root root    60 আট 14 01:14 dynamicmaps.cf
drwxr-xr-x  2 root root  4096 জু 19 23:11 dynamicmaps.cf.d/
-rw-r--r--  1 root root  1393 আট 14 01:14 main.cf
-rw-r--r--  1 root root 27120 আট 14 01:14 main.cf.proto
lrwxrwxrwx  1 root root    31 আট 14 01:14 makedefs.out -> /usr/share/postfix/makedefs.out
-rw-r--r--  1 root root  6208 আট 14 01:14 master.cf
-rw-r--r--  1 root root  6208 আট 14 01:14 master.cf.proto
-rw-r--r--  1 root root 10268 জু 19 23:11 postfix-files
drwxr-xr-x  2 root root  4096 জু 19 23:11 postfix-files.d/
-rwxr-xr-x  1 root root 11532 জু 19 23:11 postfix-script*
-rwxr-xr-x  1 root root 29872 জু 19 23:11 post-install*
drwxr-xr-x  2 root root  4096 জু 19 23:11 sasl/
alif@alif-virtual-machine:/etc/postfix$
```

>>nano main.cf

>>Edit:

i) mydestination = kali.Alif, localhost.Alif, localhost

ii) mynetworks = 127.0.0.0/8 10.0.0.0/24

iii) inet_protocols = ipv4

iv) extra line: home_mailbox = Maildir/

3rd step:

>>sudo service postfix restart

[at the home on terminal: sudo apt-get install telnet]

>> telnet localhost 25

>> quit

```
Activities Terminal 14 01:31
alif@alif-virtual-machine: /etc/postfix

drwxr-xr-x  2 root root  4096  19 23:11 sasl/
alif@alif-virtual-machine:/etc/postfix$ sudo nano main.cf

Use "fg" to return to nano.

[1]+  Stopped                  sudo nano main.cf
alif@alif-virtual-machine:/etc/postfix$ sudo nano main.cf
alif@alif-virtual-machine:/etc/postfix$ sudo nano main.cf
alif@alif-virtual-machine:/etc/postfix$ sudo service postfix restart
alif@alif-virtual-machine:/etc/postfix$ telnet localhost 25
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
220 alif-virtual-machine.localdomain ESMTP Postfix (Ubuntu)
quit
221 2.0.0 Bye
Connection closed by foreign host.
alif@alif-virtual-machine:/etc/postfix$ netstat -tln
Command 'netstat' not found, but can be installed with:
sudo apt install net-tools
alif@alif-virtual-machine:/etc/postfix$ netstat -tnl
Command 'netstat' not found, but can be installed with:
sudo apt install net-tools
```

[at the home on terminal: sudo apt install net-tools]

>> netstat -tnl

```
Activities Terminal 14 01:31
alif@alif-virtual-machine: /etc/postfix

sudo apt install net-tools
alif@alif-virtual-machine:/etc/postfix$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 51 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://bd.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60
+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 3s (62.6 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 143640 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb .
..
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
alif@alif-virtual-machine:/etc/postfix$ netstat -tnl
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN
tcp        0      0 127.0.0.1:631           0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:25               0.0.0.0:*               LISTEN
tcp6       0      0 :::1:631                 :::*                    LISTEN
alif@alif-virtual-machine:/etc/postfix$
```

4th step:

>>sudo apt-get install dovecot-imapd dovecot-pop3d


```
Activities Terminal 14 01:33
alif@alif-virtual-machine: /etc/postfix

0 upgraded, 1 newly installed, 0 to remove and 51 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://bd.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60
+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 3s (62.6 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 143640 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb .
..
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
alif@alif-virtual-machine:/etc/postfix$ netstat -tnl
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address          Foreign Address         State
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN
tcp        0      0 127.0.0.1:631          0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:25             0.0.0.0:*               LISTEN
tcp6       0      0 :::1:631               :::*                    LISTEN
alif@alif-virtual-machine:/etc/postfix$ sudo apt-get install dovecot-imapd dove
cot-pop3d
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
dovecot-core
Suggested packages:
dovecot-gssapi dovecot-ldap dovecot-lmtpd dovecot-lucene
dovecot-mysql dovecot-sieve dovecot-sqlite dovecot-systemd-sieve
```

```
>> cd /etc/dovecot/
>> ll
>> sudo nano dovecot.conf

>> Edit:
after "# Enable installed protocols"
    Line 1: protocols = imap pop3
after "#listen = *, :::"
    Line 2: listen = *
```

5th step:

```
>>cd conf.d/
>> ll
```

```
Activities Terminal 14 01:38
alif@alif-virtual-machine: /etc/dovecot/conf.d
alif@alif-virtual-machine:/etc/postfix$ cd /etc/dovecot/
alif@alif-virtual-machine:/etc/dovecot$ ll
total 48
drwxr-xr-x 4 root root 4096 আট 14 01:32 ./
drwxr-xr-x 133 root root 12288 আট 14 01:32 ../
drwxr-xr-x 2 root root 4096 আট 14 01:32 conf.d/
-rw-r--r-- 1 root root 4401 আট 5 20:26 dovecot.conf
-rw-r--r-- 1 root dovecot 1507 আট 26 2019 dovecot-dict-auth.conf.ext
-rw-r--r-- 1 root dovecot 852 আট 26 2019 dovecot-dict-sql.conf.ext
-rw-r--r-- 1 root dovecot 5824 আট 26 2019 dovecot-sql.conf.ext
drwx----- 2 root root 4096 আট 14 01:32 private/
alif@alif-virtual-machine:/etc/dovecot$ sudo nano dovecot.conf
alif@alif-virtual-machine:/etc/dovecot$ cd conf.d/
alif@alif-virtual-machine:/etc/dovecot/conf.d$ ll
total 124
drwxr-xr-x 2 root root 4096 আট 14 01:32 ./
drwxr-xr-x 4 root root 4096 আট 14 01:37 ../
-rw-r--r-- 1 root root 5296 আট 26 2019 10-auth.conf
-rw-r--r-- 1 root root 1781 আট 26 2019 10-director.conf
-rw-r--r-- 1 root root 4073 আট 26 2019 10-logging.conf
-rw-r--r-- 1 root root 18030 আট 5 20:26 10-mail.conf
-rw-r--r-- 1 root root 3569 আট 26 2019 10-master.conf
-rw-r--r-- 1 root root 3178 আট 5 20:26 10-ssl.conf
-rw-r--r-- 1 root root 291 আট 5 20:26 10-tcpwrapper.conf
-rw-r--r-- 1 root root 1657 আট 26 2019 15-lda.conf
-rw-r--r-- 1 root root 2808 আট 26 2019 15-mailboxes.conf
-rw-r--r-- 1 root root 4508 আট 26 2019 20-imap.conf
-rw-r--r-- 1 root root 4066 আট 26 2019 20-pop3.conf
-rw-r--r-- 1 root root 676 আট 26 2019 90-acl.conf
```

>> sudo nano 10-auth.conf

>> Edit:

after "# See also ssl=required setting."

disable_plaintext_auth = yes

after "# NOTE: See also disable_plaintext_auth setting."

auth_mechanisms = plain login

>> sudo nano 10-mail.conf

>> Edit:

after "# <doc/wiki/MailLocation.txt>

#"

mail_location = maildir: /home/%u/Maildir

>> sudo nano 10-master.conf

>> Edit:

```
i) service imap-login {
    inet_listener imap {
        port = 143
    }
    inet_listener imaps {
        #port = 993
        #ssl = yes
    }
}
```

```
ii) service pop3-login {
    inet_listener pop3 {
```

```

        port = 110
    }
    inet_listener pop3s {
        #port = 995
        #ssl = yes
    }
}

```

iii) # permissions (e.g. 0777 allows everyone full permissions).

```

unix_listener auth-userdb {
    mode = 0600
    user = postfix
    group = postfix
}

```

after save: >>sudo service dovecot restart

6th step:

>>netstat -tnl

>> telnet localhost 110

```

alif@alif-virtual-machine: /etc/dovecot/conf.d
-rw-r--r-- 1 root root 489 2019 auth-deny.conf.ext
-rw-r--r-- 1 root root 343 2019 auth-dict.conf.ext
-rw-r--r-- 1 root root 561 2019 auth-master.conf.ext
-rw-r--r-- 1 root root 515 2019 auth-passwdfile.conf.ext
-rw-r--r-- 1 root root 788 2019 auth-sql.conf.ext
-rw-r--r-- 1 root root 611 2019 auth-static.conf.ext
-rw-r--r-- 1 root root 2182 2019 auth-system.conf.ext
-rw-r--r-- 1 root root 330 2019 auth-vpopmail.conf.ext
alif@alif-virtual-machine: /etc/dovecot/conf.d$ sudo nano 10-auth.conf
alif@alif-virtual-machine: /etc/dovecot/conf.d$ sudo nano 10-mail.conf
alif@alif-virtual-machine: /etc/dovecot/conf.d$ sudo nano 10-master.conf
alif@alif-virtual-machine: /etc/dovecot/conf.d$ sudo service dovecot restart
alif@alif-virtual-machine: /etc/dovecot/conf.d$ netstat -tnl
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:110             0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:143             0.0.0.0:*               LISTEN
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN
tcp        0      0 127.0.0.1:631           0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:25              0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:993             0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:995             0.0.0.0:*               LISTEN
tcp6       0      0 :::1:631                 :::*                    LISTEN
alif@alif-virtual-machine: /etc/dovecot/conf.d$ telnet localhost 110
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
+OK Dovecot (Ubuntu) ready.

```

[at the home on terminal: sudo apt-get install thunderbird]

>> sudo adduser username

pass:

cpass:

full name:

etc....

Username change:

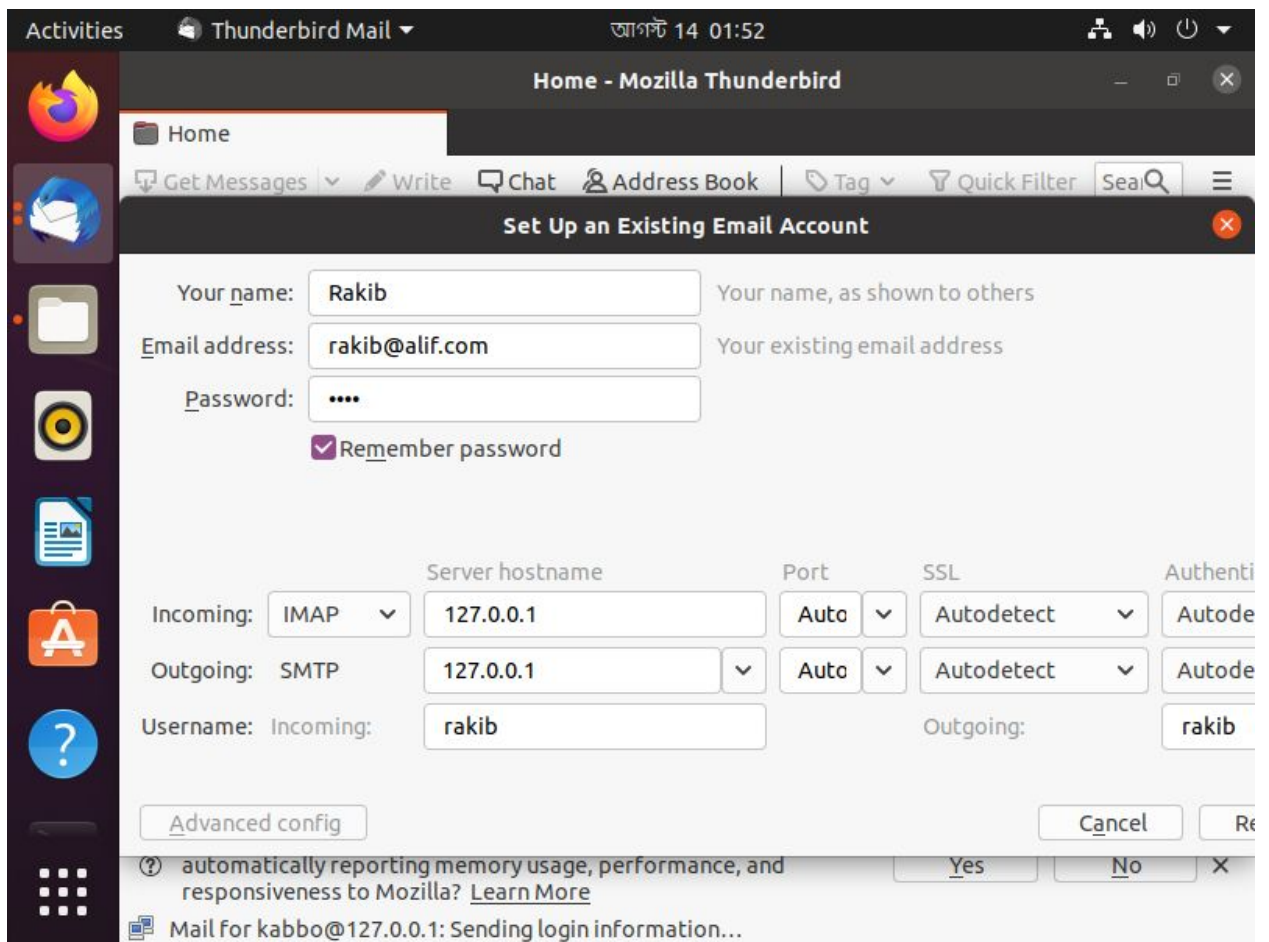
Check first: `cat /etc/passwd | grep wrong_or_old_username`

Change: `sudo usermod -l new_username wrong_or_old_username`

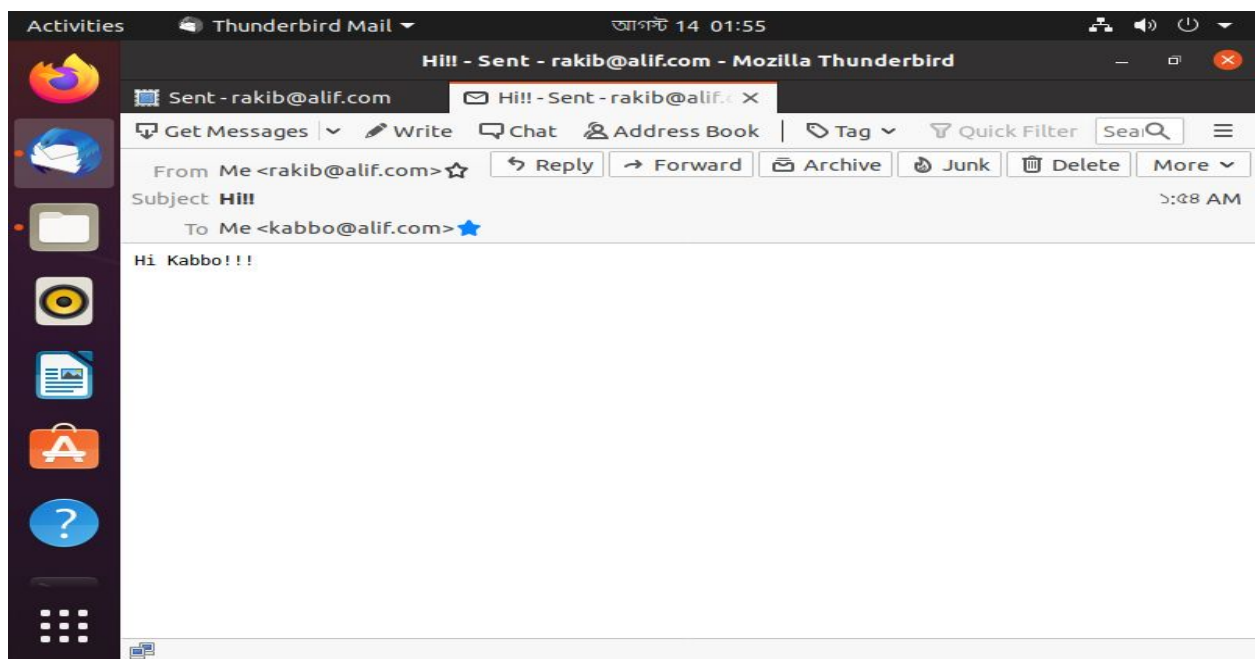
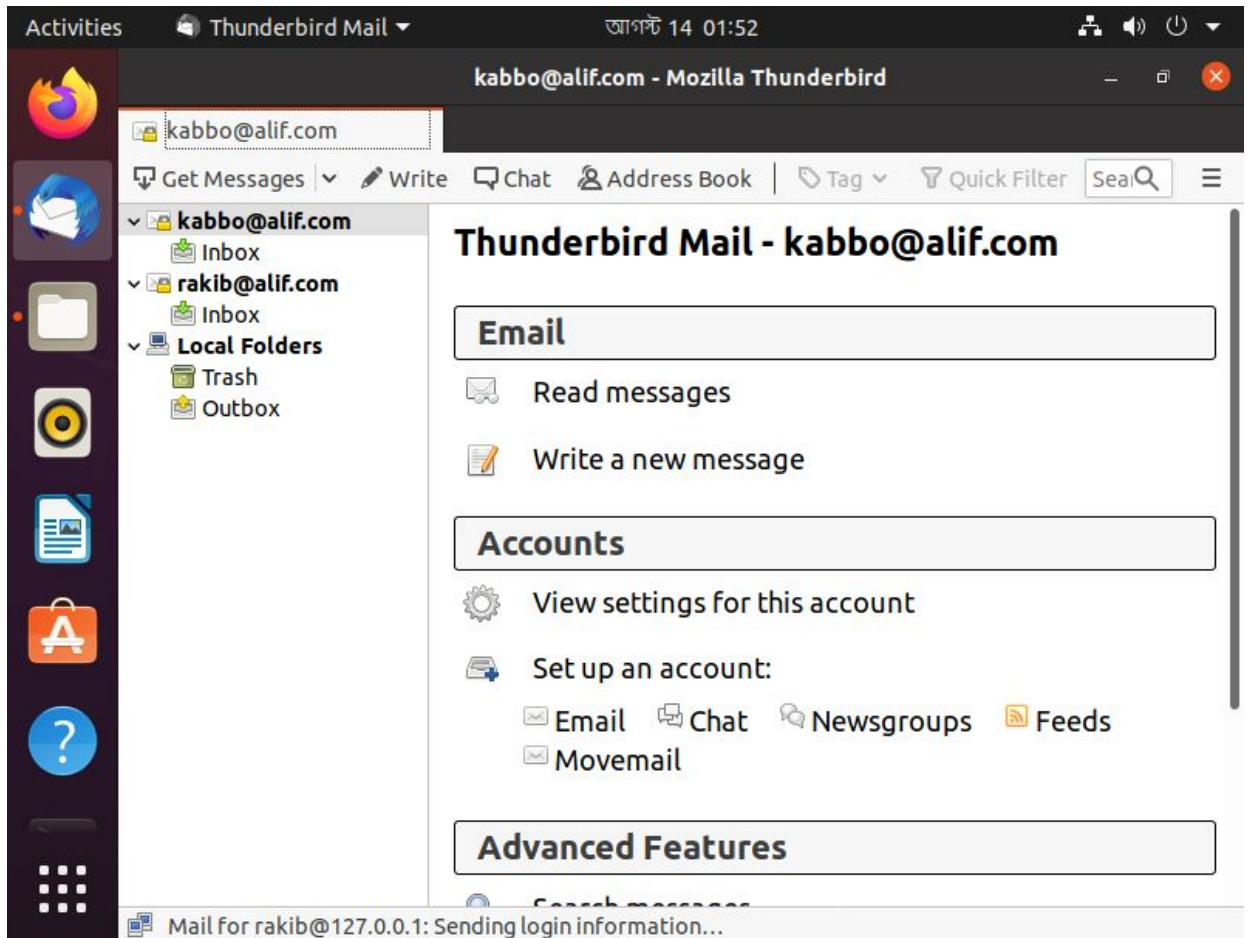
7th step:

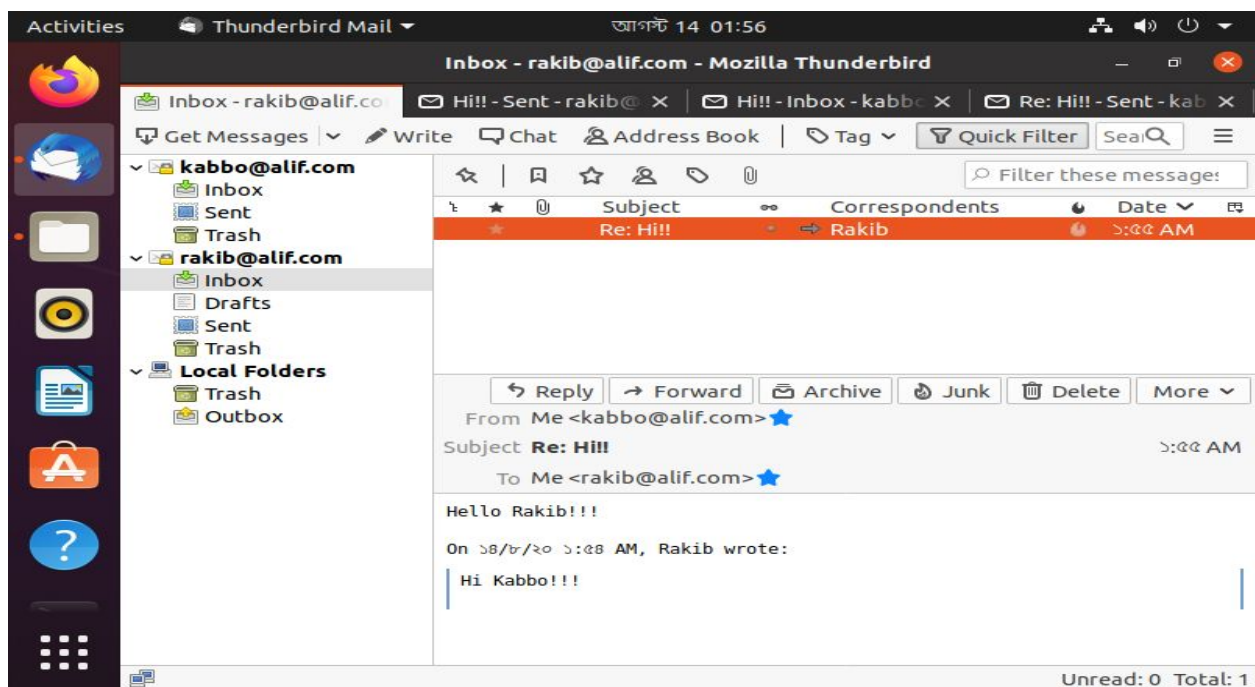
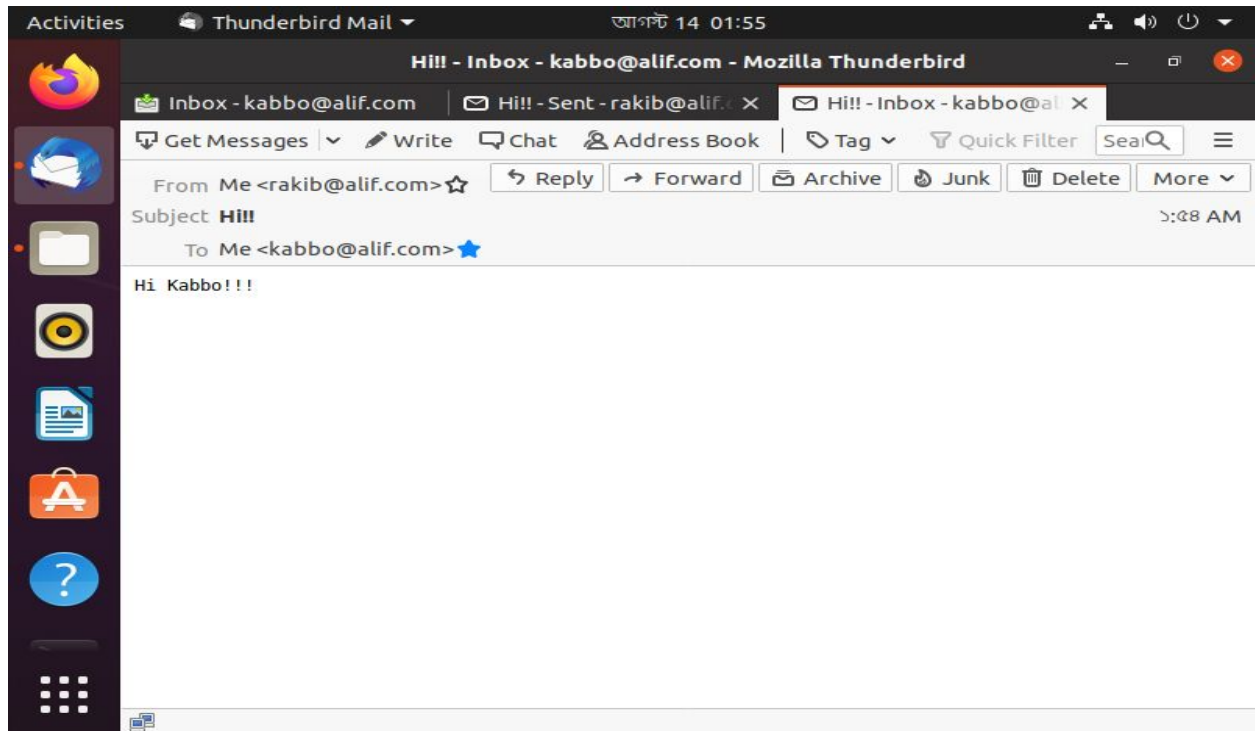
Check server Ip: `>>ip addr show`

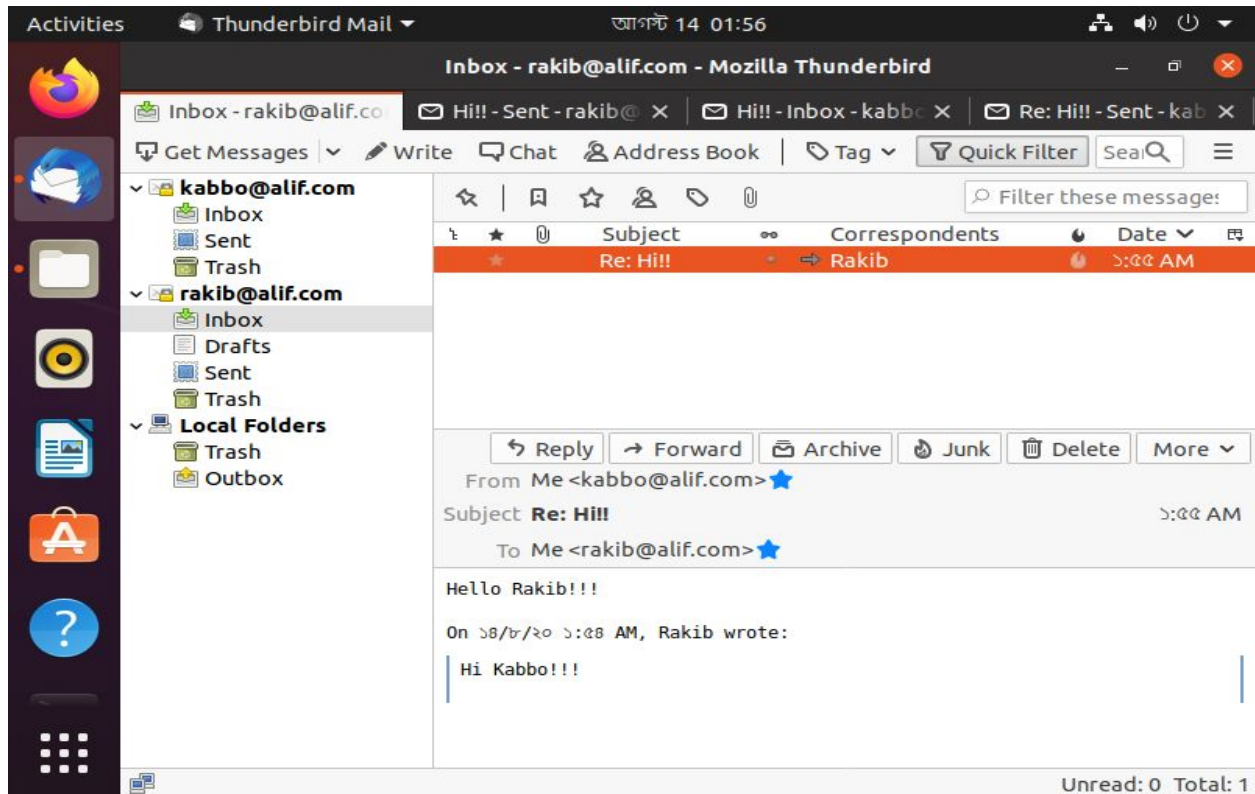
`>> open thunderbird`

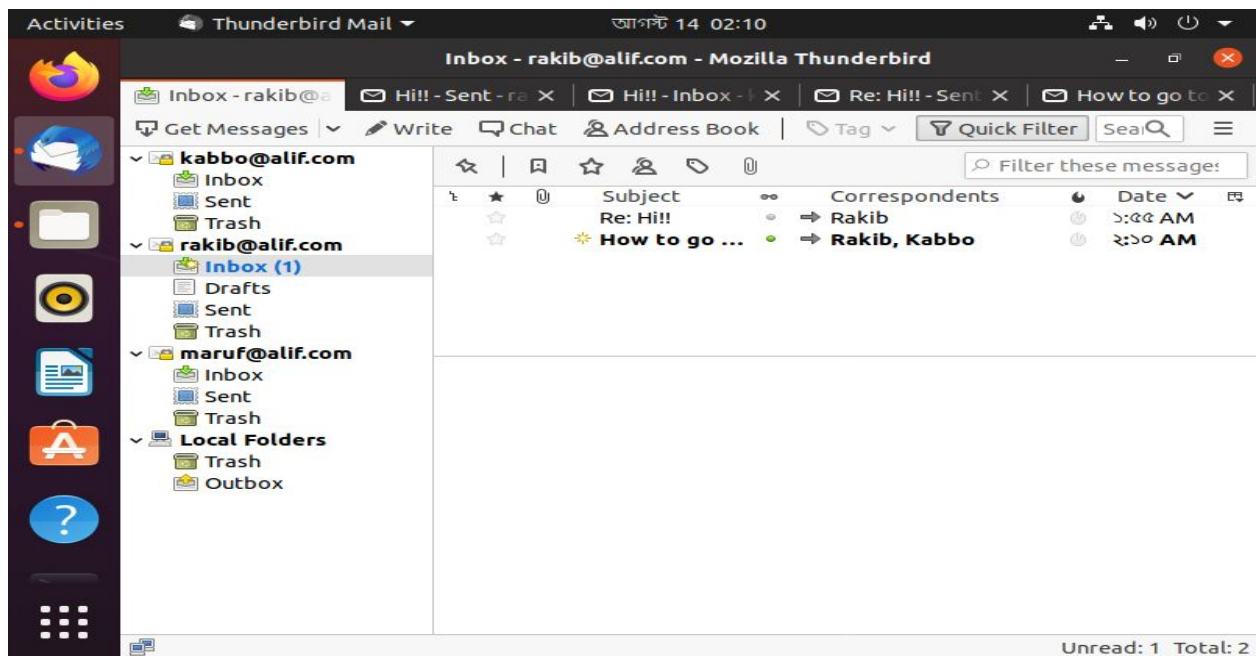
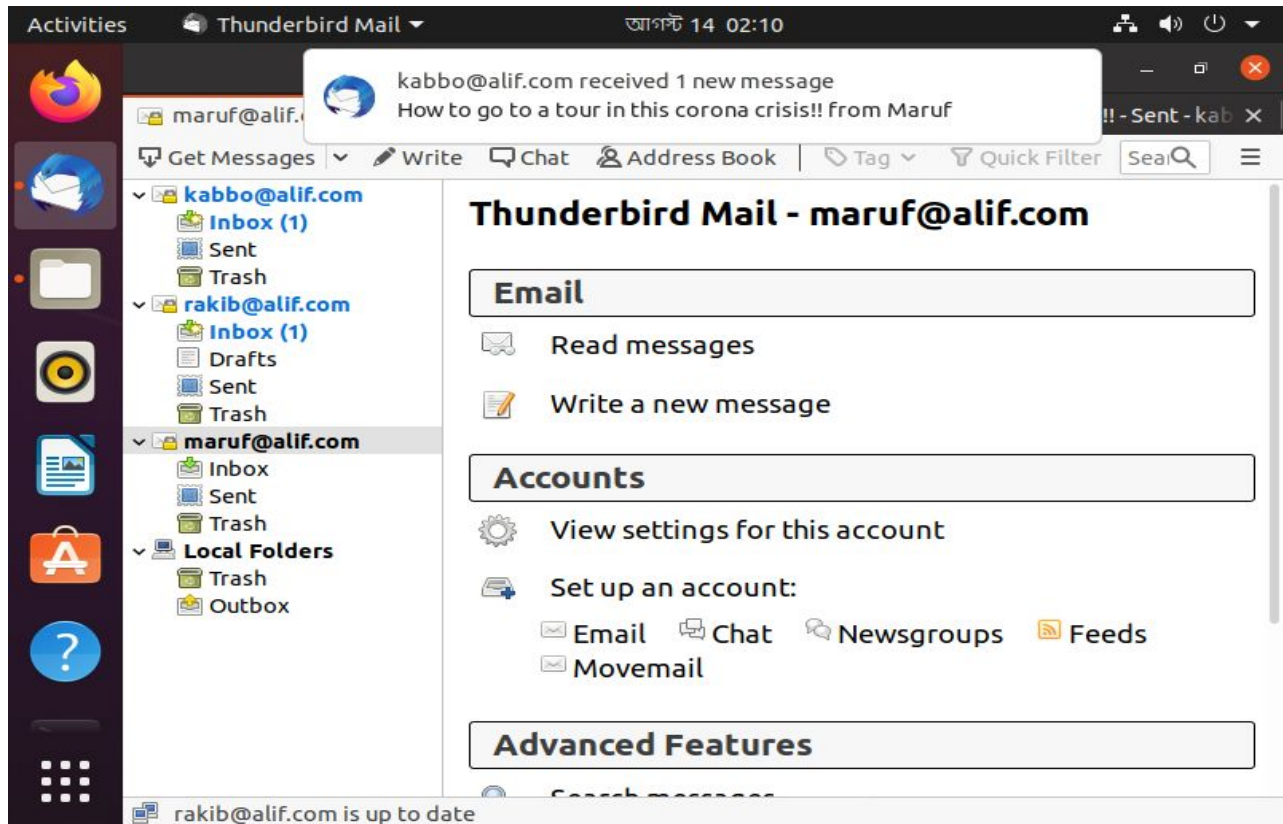


Example:









>>Successful Mail Transferred...

*******Thank You*******