

Practical 13

Setting Up Mail Servers

1) Check for postfix package. Then go to /etc/postfix directory and list its content.

```
[root@localhost ~]# rpm -q postfix
postfix-2.10.1-6.el7.x86_64
[root@localhost ~]# cd /etc/postfix
[root@localhost postfix]# ls
access      generic      main.cf      relocated    virtual
canonical   header_checks master.cf     transport
```

2) Open main.cf configuration file in VI editor and set the number of lines using **:set nu** inside VI editor.

```
[root@localhost postfix]# vi main.cf
```

3) Uncomment line 76 and write **mail.student.com** in place of dummy data.

```
74 #
75 #myhostname = host.domain.tld
76 myhostname = mail.student.com
77
```

4) Uncomment line 98.

```
97 #
98 myorigin = $myhostname
99 #myorigin = $mydomain
100
```

5) Now Uncomment line 113 and comment line 116 of the file.

```
113 inet_interfaces = all
114 #inet_interfaces = $myhostname
115 #inet_interfaces = $myhostname, localhost
116 #inet_interfaces = localhost
117
```

6) Uncomment line 264 and write the subnet of your system.

```
263 #
264 mynetworks = 10.0.0.100/8, 127.0.0.0/8
265 #mynetworks = $config_directory/mynetworks
266 #mynetworks = hash:/etc/postfix/network_table
```

7) Uncomment the line 296.

```
296 relay_domains = $mydestination
297
```

8) Uncomment line 317 and write the IP Address of your mail server.

```
313 #relayhost = $mydomain
314 #relayhost = [gateway.my.domain]
315 #relayhost = [mailserver.isp.tld]
316 #relayhost = uucphost
317 relayhost = [10.0.0.100]
```

9) Uncomment line 419 for the mailbox.

```
418 #home_mailbox = Mailbox
419 home_mailbox = Maildir/
420
```

Press **esc :wq** to save and exit from vi editor.

10) Now restart the service and check the status of your mail server and disable firewall.

```
[root@localhost postfix]# systemctl restart postfix
[root@localhost postfix]# systemctl status postfix
● postfix.service - Postfix Mail Transport Agent
   Loaded: loaded (/usr/lib/systemd/system/postfix.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2024-09-30 13:50:12 IST; 14s ago
     Process: 3085 ExecStop=/usr/sbin/postfix stop (code=exited, status=0/SUCCESS)
     Process: 3102 ExecStart=/usr/sbin/postfix start (code=exited, status=0/SUCCESS)
   Main PID: 3174 (master)
     CGroup: /system.slice/postfix.service
            └─3174 /usr/libexec/postfix/master -w
               └─3175 pickup -l -t unix -u
                  └─3176 qmgr -l -t unix -u

Sep 30 13:50:11 localhost.localdomain systemd[1]: Starting Postfix Mail Transp...
Sep 30 13:50:12 localhost.localdomain postfix/master[3174]: daemon started --...
Sep 30 13:50:12 localhost.localdomain systemd[1]: Started Postfix Mail Transp...
Hint: Some lines were ellipsized, use -l to show in full.
[root@localhost postfix]# systemctl stop firewalld
```

11) To write the mail body and for sending the mail use following command and after using that command there will be blank space where you can write the mail body there and then press **Enter** and Press **CTRL+D**. A message of **EOT** (End of Text) will be displayed and mail will be sent.

```
[root@localhost postfix]#
[root@localhost postfix]# mail -s "postfixdemo" student
This is our first mail.
EOT
[root@localhost postfix]#
```

12) Switch the User (student).

```
[root@localhost ~]# su student
[student@localhost root]$ cd
[student@localhost ~]$ ls
demosymlink Desktop Downloads Music Public tmp
demotar Documents Maildir Pictures Templates Videos
[student@localhost ~]$
```

13) Go to Maildir and list its content.

```
[student@localhost ~]$ cd Maildir
[student@localhost Maildir]$ ls
cur new tmp
```

14) Go to new directory and list its content.

```
[student@localhost Maildir]$ cd new
[student@localhost new]$ ls
1727684734.V803I20007fM595935.localhost.localdomain
[student@localhost new]$
```

15) Copy the output and use cat command and paste the output of previous step and by doing this you can open the Mail sent.

```
[student@localhost new]$ cat 1727684734.V803I20007fM595935.localhost.localdomain
Return-Path: <root@mail.student.com>
X-Original-To: student
Delivered-To: student@mail.student.com
Received: by mail.student.com (Postfix, from userid 0)
        id 899A2210E; Mon, 30 Sep 2024 13:55:34 +0530 (IST)
Date: Mon, 30 Sep 2024 13:55:34 +0530
To: student@mail.student.com
Subject: postfixdemo
User-Agent: Heirloom mailx 12.5 7/5/10
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Message-Id: <20240930082534.899A2210E@mail.student.com>
From: root@mail.student.com (root)

This is our first mail.
[student@localhost new]$
```