

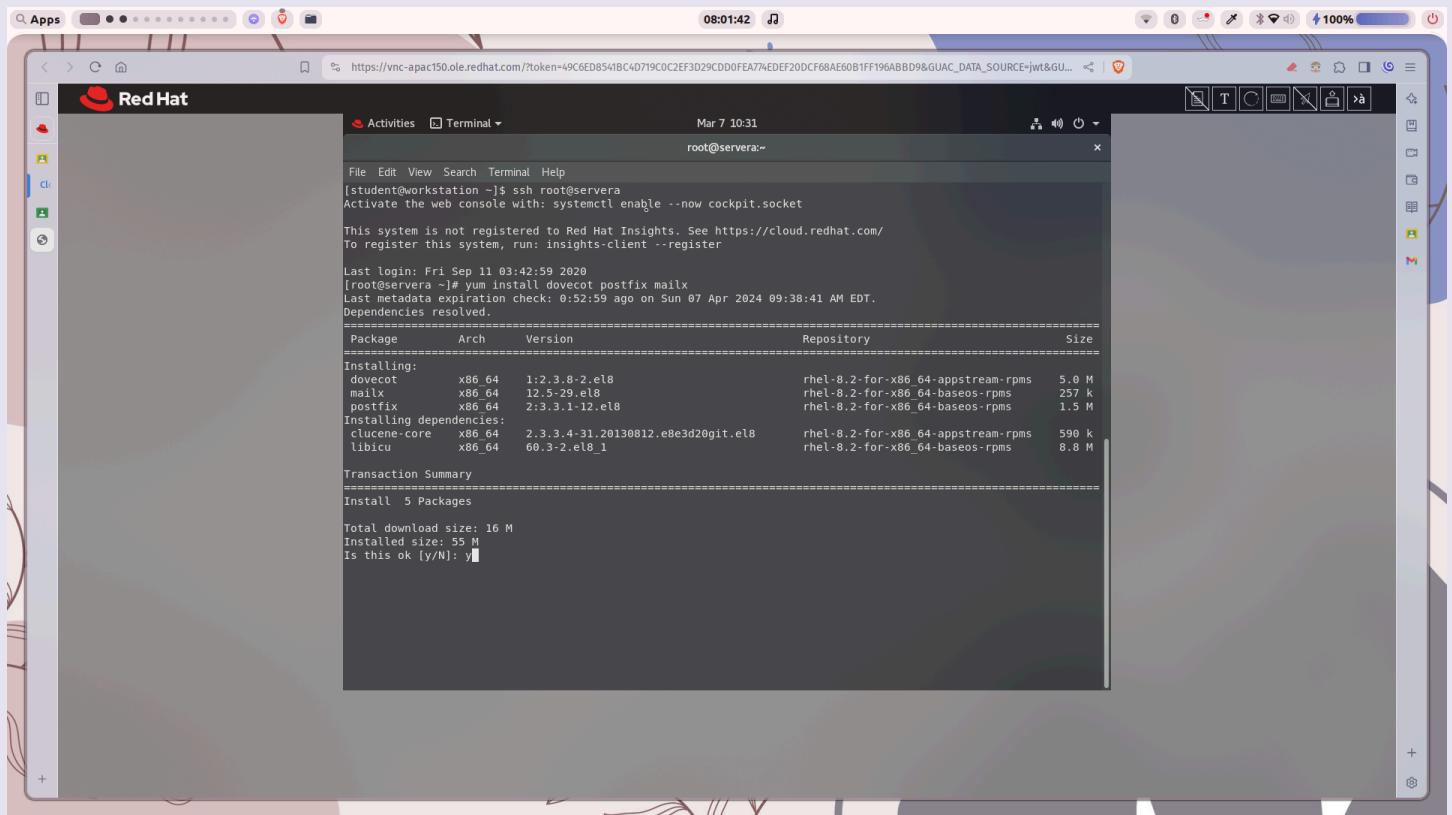
Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA      Batch - 61

ITIM Practical 8

**Aim : Configure the Postfix Package to send and receive mail for domain - ganpatuniversity.Yourname.edu. Ensure that users are able to send and receive the mail.**



The screenshot shows a Red Hat Linux desktop environment. A terminal window is open, displaying the following command and its output:

```
[student@workstation ~]$ ssh root@servera
Activate the web console with: systemctl enable --now cockpit.socket

This system is not registered to Red Hat Insights. See https://cloud.redhat.com/
To register this system, run: insights-client --register

Last login: Fri Sep 11 03:42:59 2020
[root@servera ~]# yum install dovecot postfix mailx
Last metadata expiration check: 0:52:59 ago on Sun 07 Apr 2024 09:38:41 AM EDT.
Dependencies resolved.
=====
Package           Arch    Version            Repository        Size
=====
Installing:
dovecot          x86_64  1:2.3.8-2.el8      rhel-8.2-for-x86_64-appstream-rpms  5.0 M
mailx            x86_64  12.5-29.el8       rhel-8.2-for-x86_64-baseos-rpms     257 K
postfix          x86_64  2:3.3.1-12.el8     rhel-8.2-for-x86_64-baseos-rpms     1.5 M
Installing dependencies:
clucene-core     x86_64  2.3.3.4-31.20130812.e8e3d20git.el8  rhel-8.2-for-x86_64-appstream-rpms  590 k
libicu           x86_64  60.3-2.el8_1       rhel-8.2-for-x86_64-baseos-rpms     8.8 M
=====
Transaction Summary
=====
Install 5 Packages

Total download size: 16 M
Installed size: 55 M
Is this ok [y/N]: y
```

Commands :

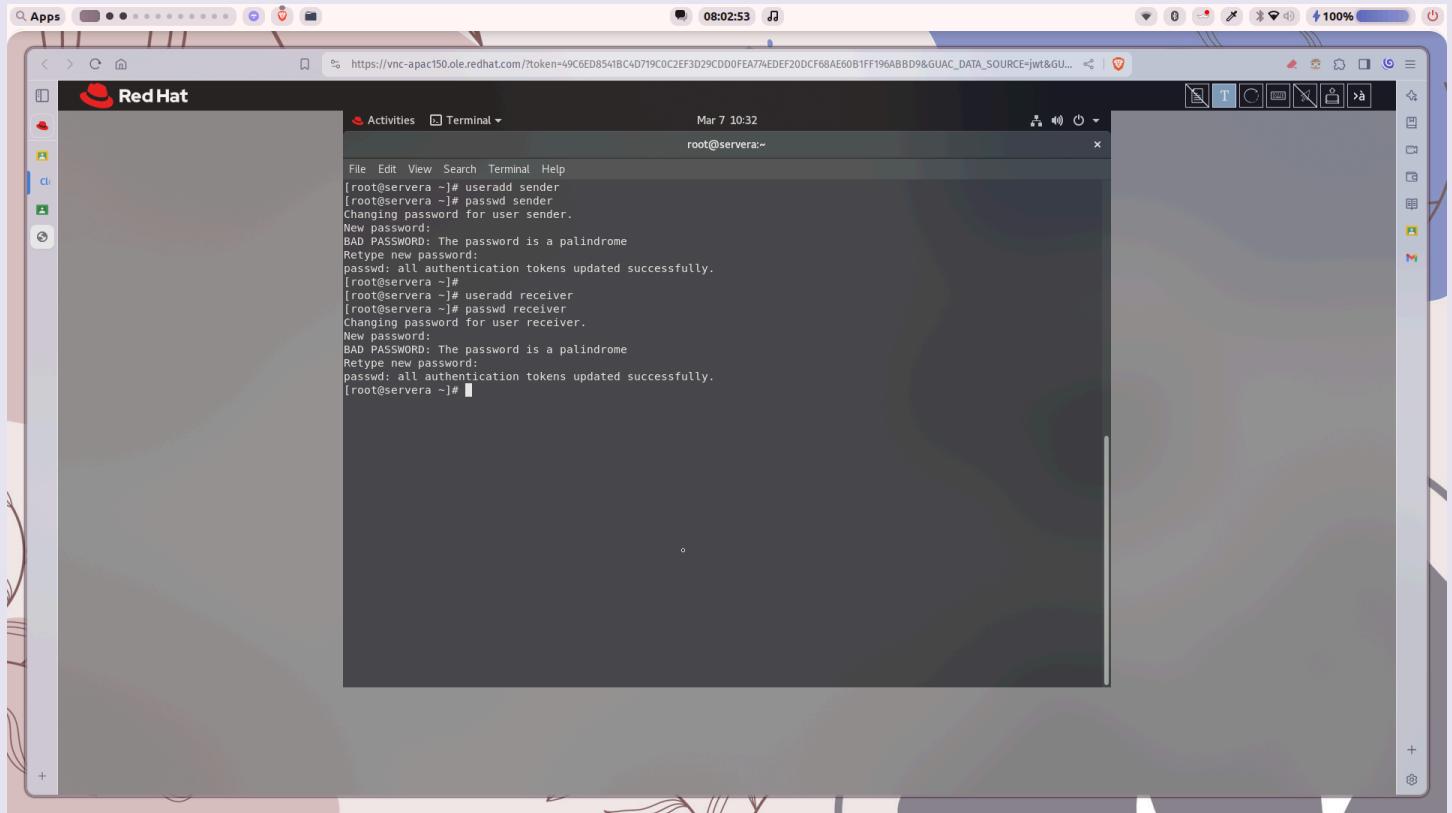
- **ssh root@servera**
- **yum install dovecot postfix mailx** (to install all 3 packages specified using yum package manager)

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### Commands :

- **useradd sender**
- **passwd sender**
- **useradd receiver**
- **passwd receiver**

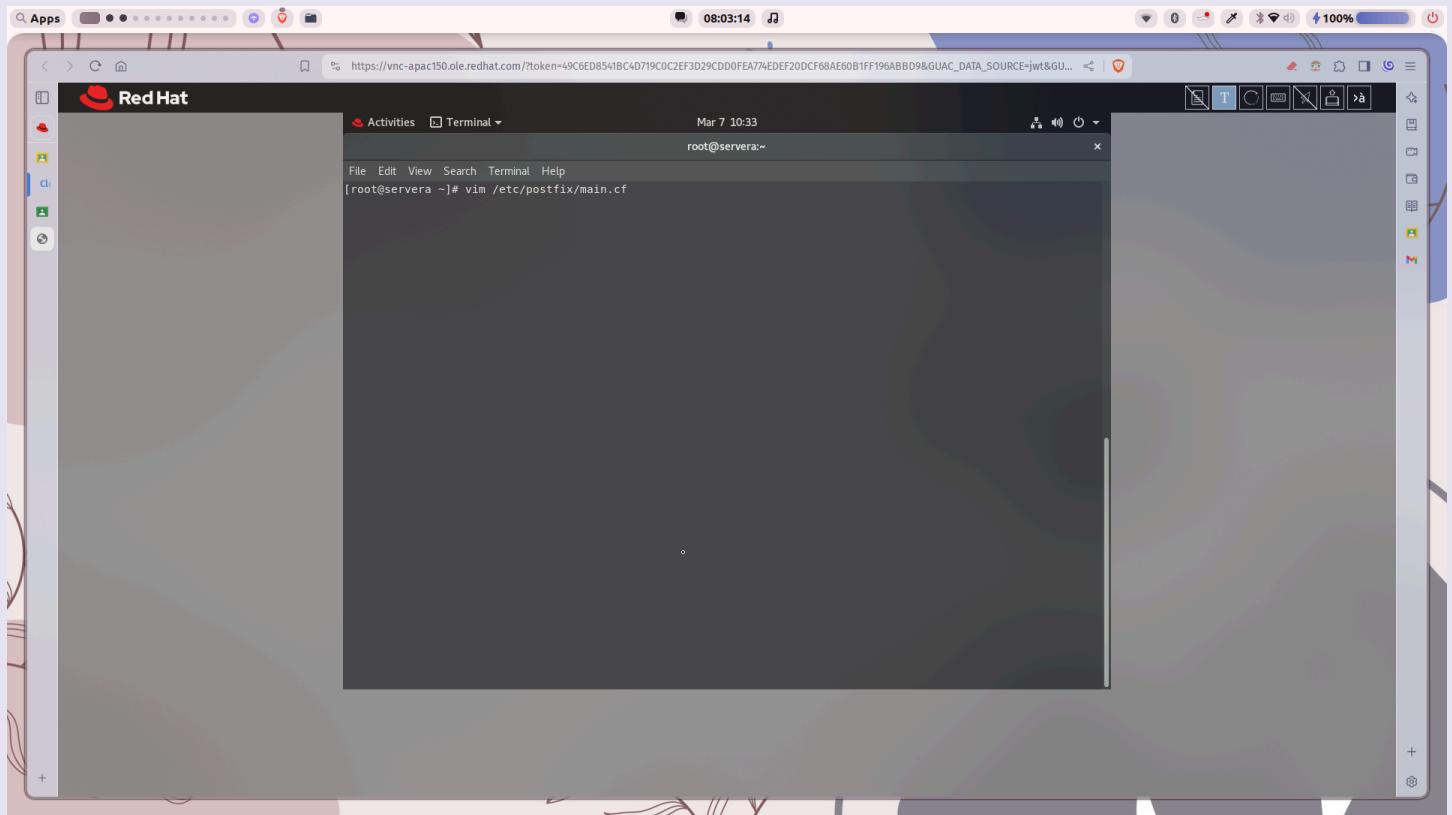
(to add and assign password to sender and receiver users)

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Command : **vim /etc/postfix/main.cf** (to open with vim editor, the config file of postfix)

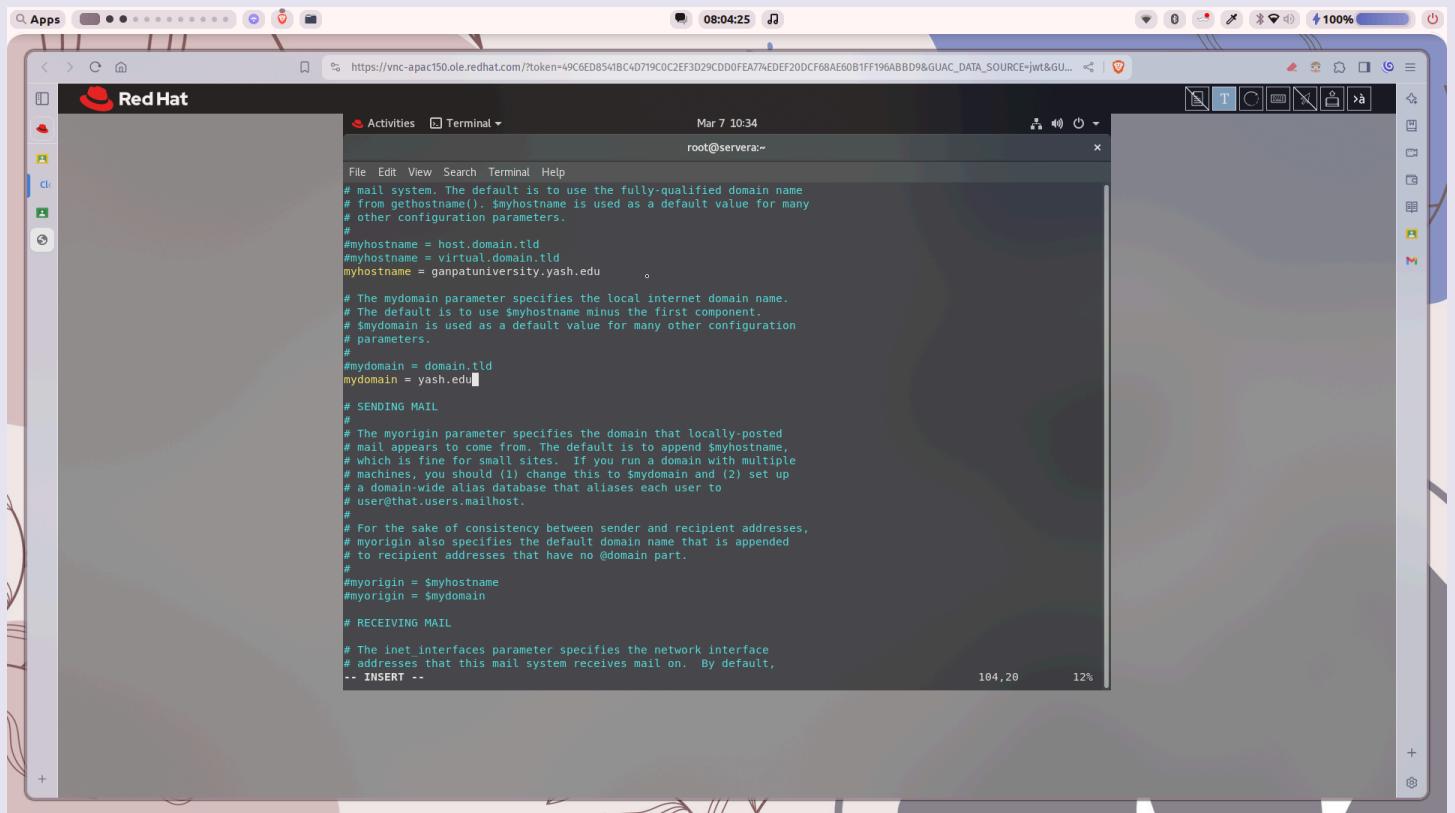
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Now, add the **myhostname = ganpatuniversity.yash.edu** and **mydomain = yash.edu** in the file



```
# mail system. The default is to use the fully-qualified domain name
# from gethostname(). $myhostname is used as a default value for many
# other configuration parameters.
#
#myhostname = host.domain.tld
#myhostname = virtual.domain.tld
myhostname = ganpatuniversity.yash.edu

# The mydomain parameter specifies the local internet domain name.
# The default is to use $myhostname minus the first component.
# $mydomain is used as a default value for many other configuration
# parameters.
#
#mydomain = domain.tld
mydomain = yash.edu

# SENDING MAIL
#
# The myorigin parameter specifies the domain that locally-posted
# mail appears to come from. The default is to append $myhostname,
# which is fine for small sites. If you run a domain with multiple
# machines, you should (1) change this to $mydomain and (2) set up
# a domain-wide alias database that aliases each user to
# user@that.users.mailhost.
#
# For the sake of consistency between sender and recipient addresses,
# myorigin also specifies the default domain name that is appended
# to recipient addresses that have no @domain part.
#
#myorigin = $myhostname
#myorigin = $mydomain

# RECEIVING MAIL
#
# The inet_interfaces parameter specifies the network interface
# addresses that this mail system receives mail on. By default,
-- INSERT --
```

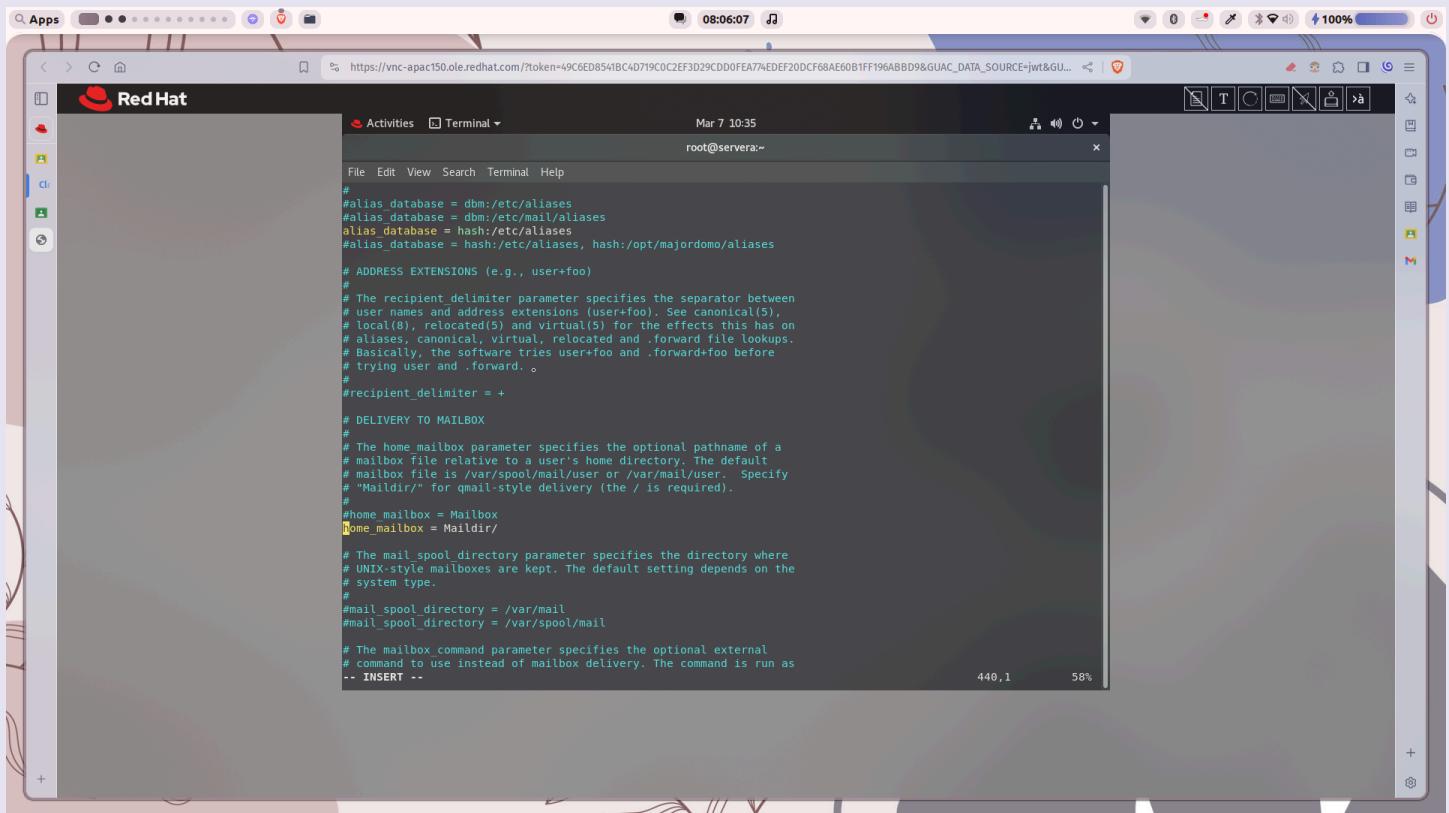
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Also, add mail directory to receive and store mails locally, with **home\_mailbox = Maildir/**



The screenshot shows a Red Hat Linux desktop environment. A terminal window is open, displaying the contents of a configuration file, likely /etc/aliases or /etc/mail/aliases. The file includes comments about delivery methods and specifies 'home\_mailbox = Maildir/' as the local delivery method. The terminal window has a dark background and white text. The desktop interface includes a dock with icons for various applications like a browser, file manager, and terminal, and a system tray at the top.

```
#alias_database = dbm:/etc/aliases
#alias_database = dbm:/etc/mail/aliases
alias_database = hash:/etc/aliases
alias_database = hash:/etc/aliases, hash:/opt/majordomo/aliases

# ADDRESS EXTENSIONS (e.g., user+foo)
#
# The recipient_delimiter parameter specifies the separator between
# user names and address extensions (user+foo). See canonical(5),
# local(8), relocated(5) and virtual(5) for the effects this has on
# aliases, canonical, virtual, relocated and .forward file lookups.
# Basically, the software tries user+foo and .forward+foo before
# trying user and .forward. .
#
#recipient_delimiter = +
#
# DELIVERY TO MAILBOX
#
# The home_mailbox parameter specifies the optional pathname of a
# mailbox file relative to a user's home directory. The default
# mailbox file is /var/spool/mail/user or /var/mail/user. Specify
# "Maildir/" for qmail-style delivery (the / is required).
#
#home_mailbox = Mailbox
home_mailbox = Maildir/

# The mail_spool_directory parameter specifies the directory where
# UNIX-style mailboxes are kept. The default setting depends on the
# system type.
#
#mail_spool_directory = /var/mail
#mail_spool_directory = /var/spool/mail

# The mailbox_command parameter specifies the optional external
# command to use instead of mailbox delivery. The command is run as
-- INSERT --
```

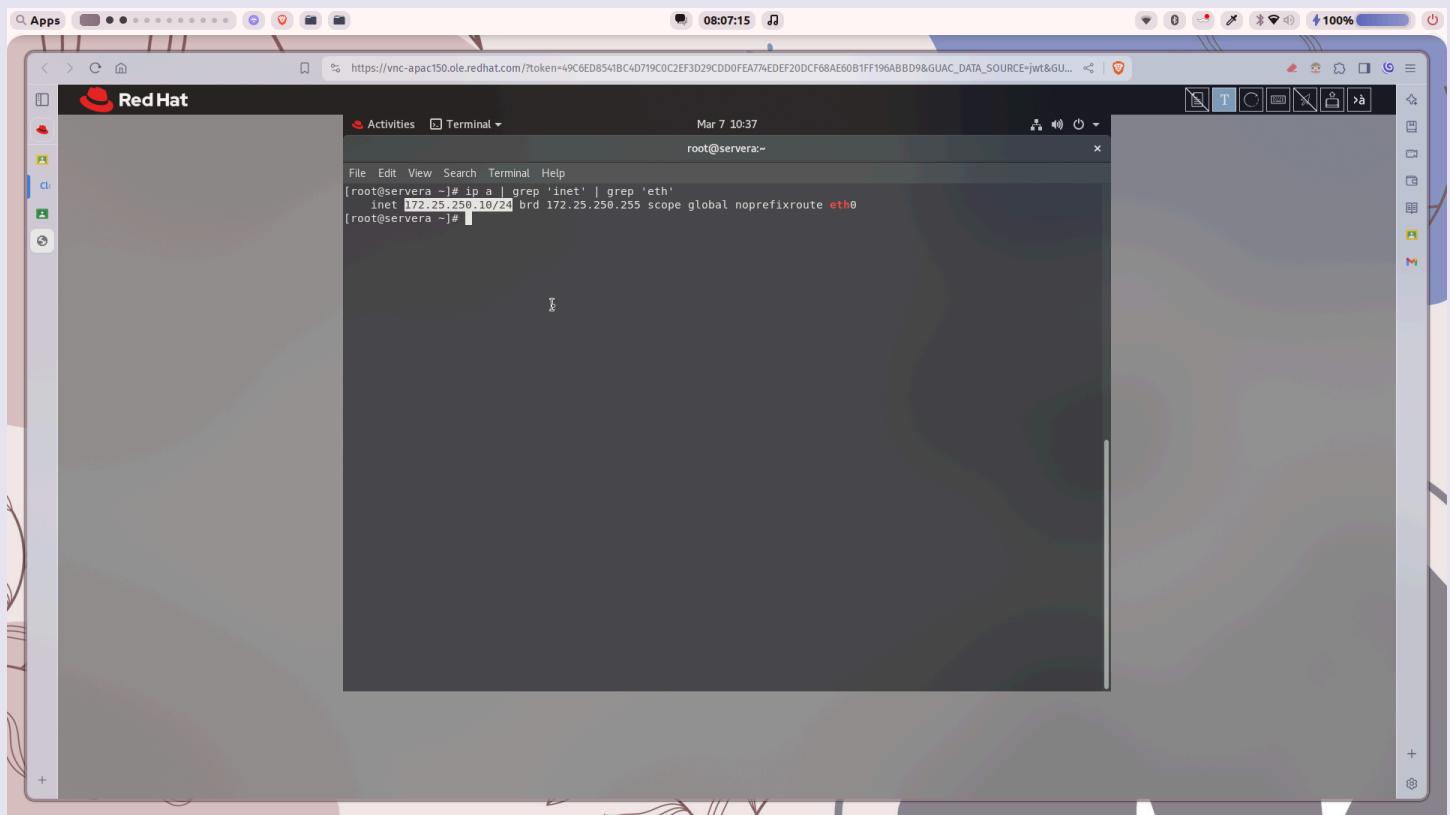
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Get the current interface's IP address



Command : **ip a | grep 'inet' | grep 'eth'** (it is same as ifconfig used to show IP information of all interfaces, but here 'inet' text is searched and grep is used to filter the line and again line containing 'eth' interface is filtered using grep)

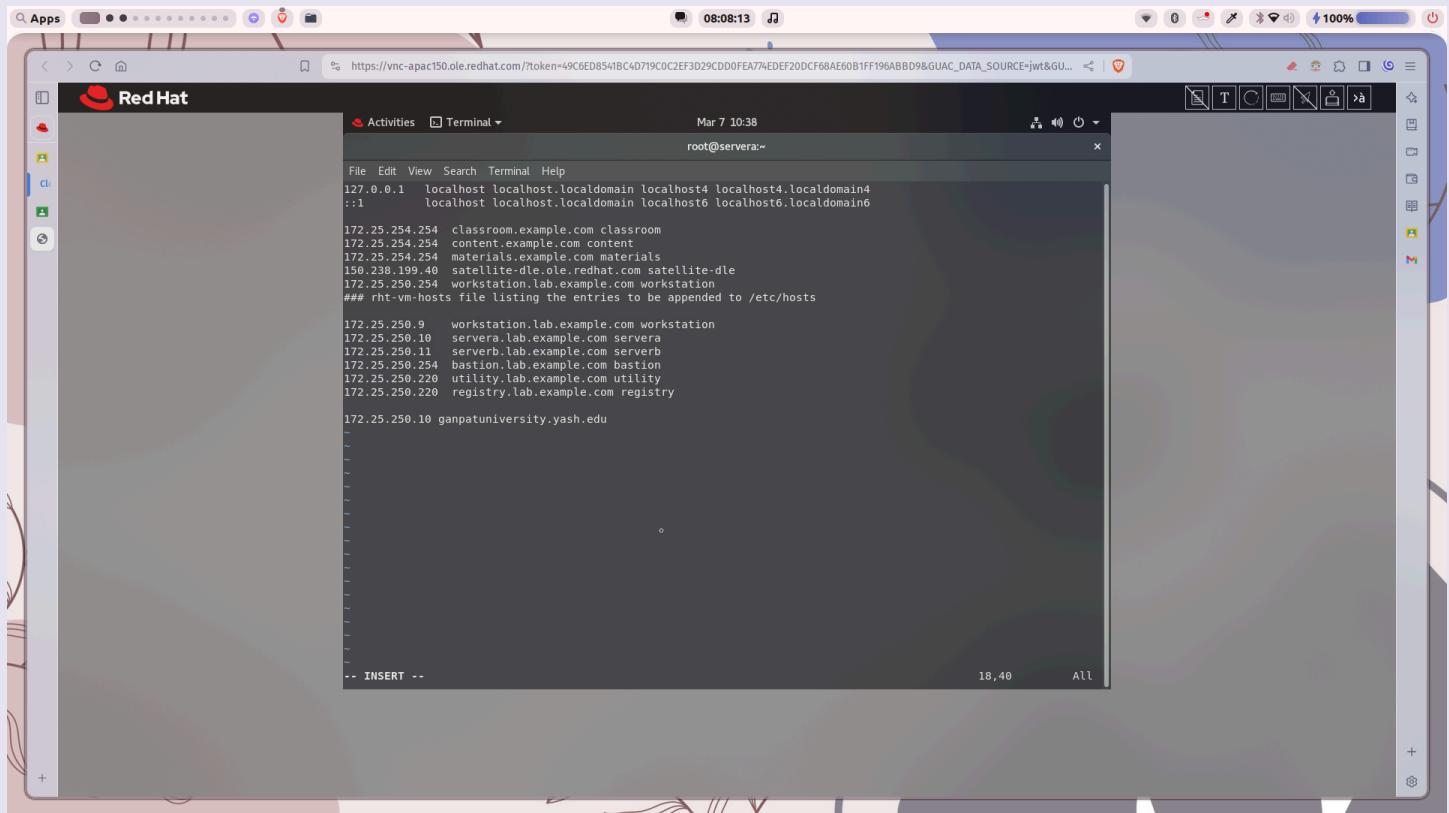
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In /etc/hosts file, add hostname and IP entry



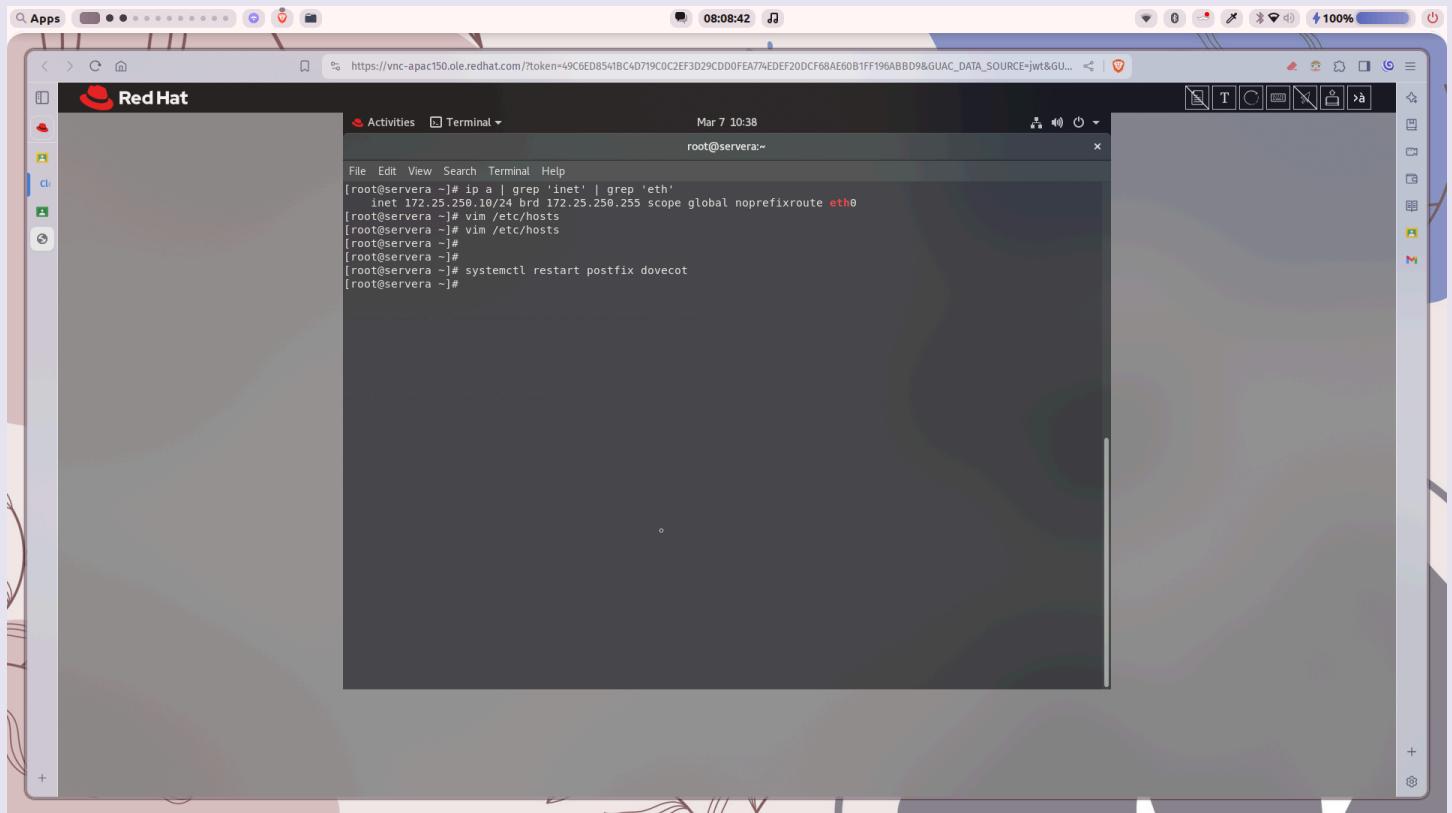
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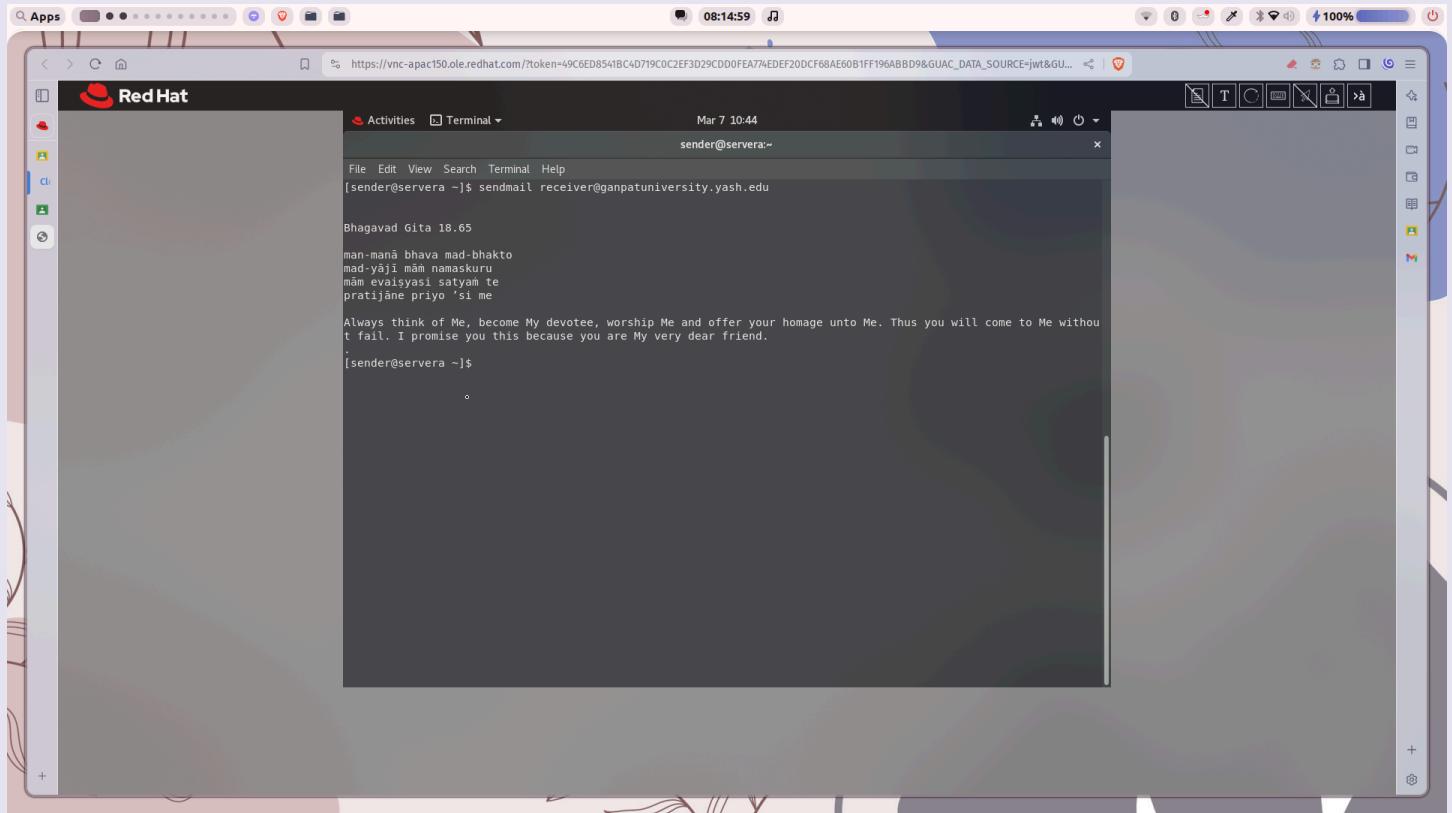
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Restart the postfix and dovecot service using systemctl



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Now, send mail from sender user

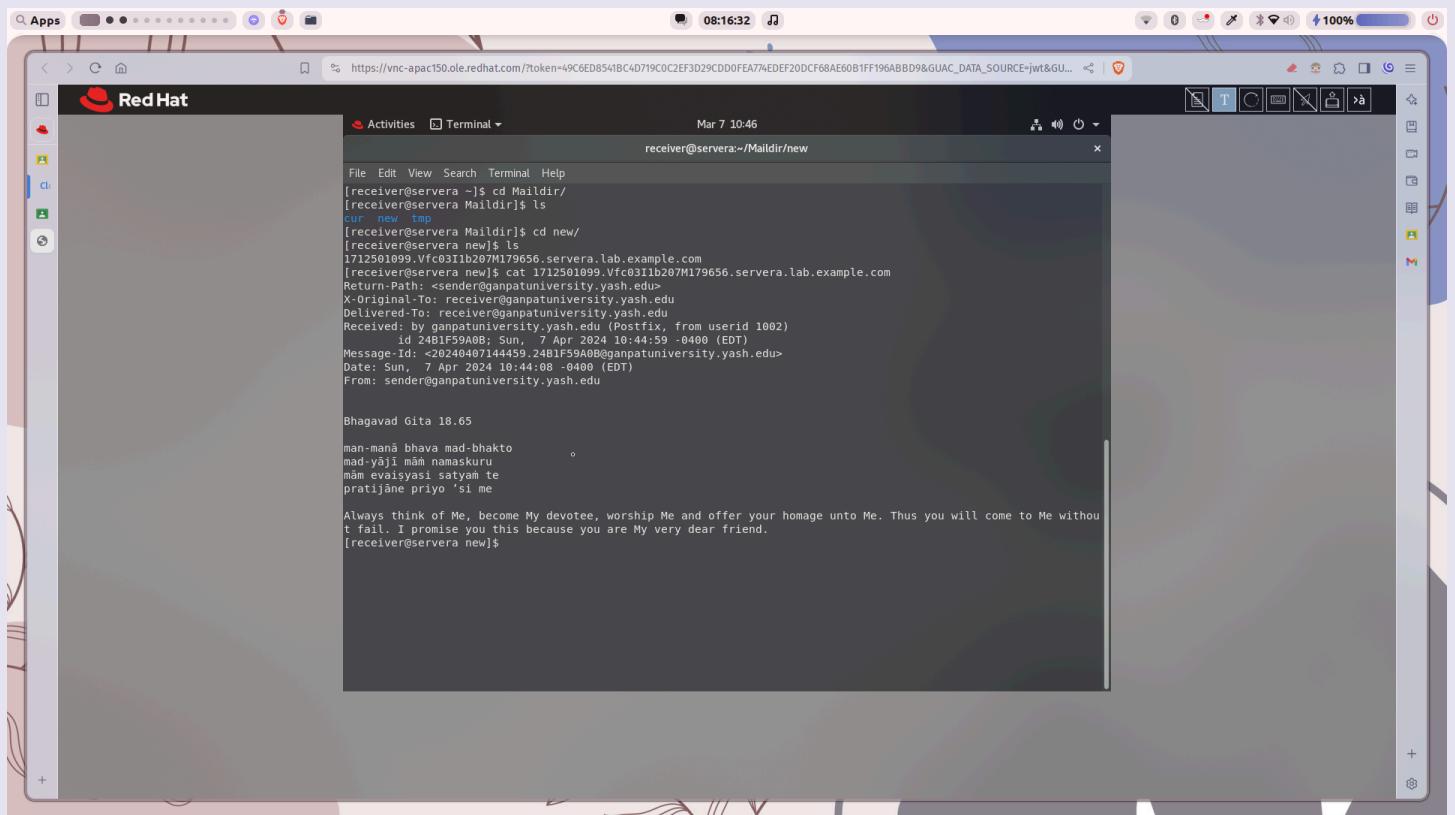


Command : sendmail receiver@ganpatuniversity.yash.edu

(full stop in new line completes the command)

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**Switch to receiver user and in Maildir/new/ mail is received**



The screenshot shows a Red Hat Linux desktop environment. A terminal window titled "receiver@servera:~/Maildir/new" is open, displaying the following command-line session:

```
[receiver@servera ~]$ cd Maildir/
[receiver@servera Maildir]$ ls
cur new tmp
[receiver@servera Maildir]$ cd new/
[receiver@servera new]$ ls
1712501099.Vfc0311b207M179656.servera.lab.example.com
[receiver@servera new]$ cat 1712501099.Vfc0311b207M179656.servera.lab.example.com
Return-Path: <sender@ganpatuniversity.yash.edu>
X-Original-To: receiver@ganpatuniversity.yash.edu
Delivered-To: receiver@ganpatuniversity.yash.edu
Received: by ganpatuniversity.yash.edu (Postfix, from userid 1002)
          id 24B1F59A0B; Sun, 7 Apr 2024 10:44:59 -0400 (EDT)
Message-ID: <20240407144459.24B1F59A0B@ganpatuniversity.yash.edu>
Date: Sun, 7 Apr 2024 10:44:08 -0400 (EDT)
From: sender@ganpatuniversity.yash.edu

Bhagavad Gita 18.65
man-mānā bhava mad-bhakto
mad-yājī mām namaskuru
mām evaisyasi satyam te
pratijāne priyo 'si me

Always think of Me, become My devotee, worship Me and offer your homage unto Me. Thus you will come to Me without fail. I promise you this because you are My very dear friend.
[receiver@servera new]$
```

**Hence the mail is received locally**