

Assignment 1

Que: Configure smtp in localhost.

Solution:

To Configure smtp in localhost we will use postfix .

(postfix is a mail transfer agent software used for routing and delivering email.)

Steps:

1.To install package in system we need sudo access. By using sudo command we login as root user.

>> *sudo su*

```
sigmoid@sigmoid:~$ sudo su
root@sigmoid:/home/sigmoid#
```

2. Install postfix using apt-get install postfix command.

>> *sudo apt-get install postfix*

or

>> *apt-get install postfix*

```
root@sigmoid:/home/sigmoid# apt-get install postfix
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
```

3. After installation a pop-up configuration will be visible on screen complete the configuration as per the requirements.

4. Now we have to configure the sasl with gmail credentials.(Simple Authentication and Security Layer)

- **Go to sasl directory present in /etc/postfix location**

>> *cd /etc/postfix/sasl*

```
root@sigmoid:/home/sigmoid# cd /etc/postfix
root@sigmoid:/etc/postfix# ls
dynamicmaps.cf  main.cf  makedefns.out  master.cf.proto  postfix-files.d  post-install
dynamicmaps.cf.d  main.cf.proto  master.cf  postfix-files  postfix-script  sasl
root@sigmoid:/etc/postfix#
root@sigmoid:/etc/postfix# cd sasl/
```

- **create a sasl_passwd file using file editor to store gmail credentials.**

>> *nano sasl_passwd*

```
root@sigmoid:/etc/postfix/sasl# nano sasl_passwd
```

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- save credentials in format shown below
[smtp.gmail.com]:587 nishant.kumar@gmail.com:qodjkozoaqdmyqll
- Create a hash database file using postmap command.
>> `postmap sasl_passwd`

```
root@sigmoid:/etc/postfix/sasl# postmap sasl_passwd
root@sigmoid:/etc/postfix/sasl# ls
sasl_passwd  sasl_passwd.db
```

5. To use gmail to send mail using postfix we have to do some configuration in main.cf file. main.cf file present in location /etc/postfix

- **open main.cf file using file editor**

>> `nano main.cf`

```
root@sigmoid:/etc/postfix# nano main.cf
```

- **set relayhost value**

relayhost = [smtp.gmail.com]:587

```
relayhost = [smtp.gmail.com]:587
```

- **Also add some configuration at the end of the file**

```
# Enable SASL authentication
smtp_sasl_auth_enable = yes
smtp_sasl_security_options = noanonymous
smtp_sasl_password_maps = hash:/etc/postfix/sasl/sasl_passwd
smtp_tls_security_level = encrypt
smtp_tls_CAfile = /etc/ssl/certs/ca-certificates.crt
```

```
# Enable SASL authentication
smtp_sasl_auth_enable = yes
smtp_sasl_security_options = noanonymous
smtp_sasl_password_maps = hash:/etc/postfix/sasl/sasl_passwd
smtp_tls_security_level = encrypt
smtp_tls_CAfile = /etc/ssl/certs/ca-certificates.crt
sigmoid@sigmoid:~$
```

6. After doing all configuration restart the postfix using systemctl command

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>> `systemctl restart postfix`

```
root@sigmoid:/etc/postfix/sasl# systemctl restart postfix
```

7. All the configuration has been completed. Now test sending email

we will use `sendmail` command to send the email.

>> `sendmail nishantddubey4@gmail.com`

subject: SMTP setup Test mail

This mail is for testing the SMTP setup in Linux

.

```
sigmoid@sigmoid:~$ sendmail dubeynishant643@gmail.com
sendmail: warning: /etc/postfix/main.cf, line 54: overriding earlier entry: smtp_tls_security_level=may
postdrop: warning: /etc/postfix/main.cf, line 54: overriding earlier entry: smtp_tls_security_level=may
To:dubeynishant643@gmail.com
```

```
Subject:test
test with normal user
```

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Note: After completion of mail writing user `‘.’` or `ctrl+d` to exit and mail will get send to the recipient's mail