Operation Sheet 4.1: Linux Email Server

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Required Software:

- **Linux Server (Ubuntu)
  Postfix**
- **Dovecot**
- **Squirrelmail (email client)**

Procedure:

Postfix is a mail transfer agent (MTA) which is the responsible software for delivering & receiving emails, it's essential in order to create a complete mail server.
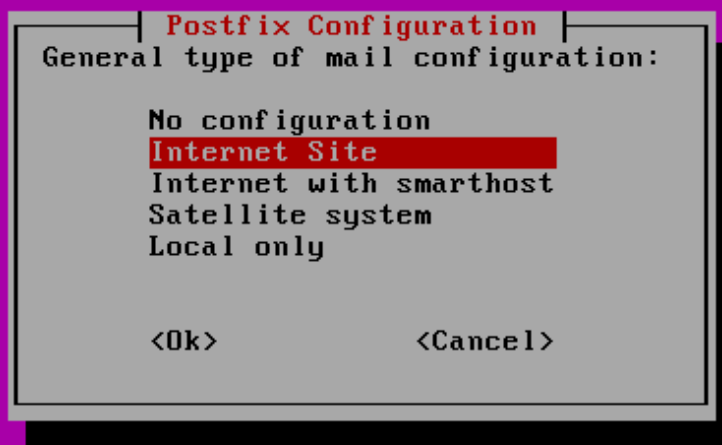
Step 1: Install postfix in linux server

sudo apt-get install postfix

or if you have installed already, reconfigure postfix with the command:

sudo dpkg-reconfigure postfix

Step 2: Choose the domain site we're going to choose "Internet Site" because the description is the best match for our server. Next, you will be asked for the Fully Qualified Domain Name (FQDN) for your server. This is your full domain name (e.g. **mail.Example.com**). Technically, a FQDN is required to end with a dot, but Postfix does not need this. So we can just enter it like:

```
Package configuration

                    ┤ Postfix Configuration ├
          General type of mail configuration:

                    No configuration
                    Internet Site
                    Internet with smarthost
                    Satellite system
                    Local only


                    <Ok>            <Cancel>
```

Step 3: Configure Postfix We are going to need to change some basic settings in the main Postfix configuration file. Begin by opening this file with root privileges in your text editor:

sudo nano /etc/postfix/main.cf

Step 4: First, we need to find the myhostname parameter. During the configuration, the FQDN we selected was added to the mydestination parameter, but myhostname remained set to localhost. We want to point this to our FQDN too:

myhostname = mail.example.com

Step 5: **Configure Additional Email Addresses**

We can configure additional email addresses by creating aliases. These aliases can be used to deliver mail to other user accounts on the system.
If you wish to utilize this functionality, make sure that you configured the virtual_alias_maps directive like we demonstrated above. We will use this file to configure our address mappings. Create the file by typing:

sudo nano /etc/postfix/virtual

In this file, you can specify emails that you wish to create on the left-hand side, and username to deliver

the mail to on the right-hand side, like this:

admin@example.com administrator
user1@example.com user1

Save and close the file when you are finished.

Step 6 : Now, we can implement our mapping by calling this command:

sudo postmap /etc/postfix/virtual

Step 7: Now, we can reload our service to read our changes:

Sudo /etc/init.d/postfix reload

Step 8: Dovecot is a mail delivery agent (MDA), it delivers the emails from/to the mail server, to install it, run the following command.During the installation process, you will be asked if you want to create a self-signed SSL certificate, choose **Yes**.

sudo apt-get install dovecot-imapd dovecot-pop3d

Step 9: Next, restart Dovecot service using the following command.

sudo /etc/init.d/dovecot restart

Step 10: SquirrelMail is the email server that you'll be using to manage emails on your server, it has a simple web interface to do the job, it can be customized by installing more modules & themes.

sudo apt-get install squirrelmail

Step 11. After the installation, you will have to run this command in order to configure SquirrelMail.

sudo squirrelmail-configure

Choose the following selection:

A. Enter "2" in order to edit the server settings, and you will be prompted to it.

B. Now enter "1" in order to change the domain name and write up your domain (e.g: example.com).

C. Go back to the main menu by writing "R" and hitting the enter key, write "4" in order to configure the general options.

D. You see "Allow server-side sorting"? Enter "11" and change it from "false" to "true" by entering "y". Now hit the Enter key, and enter the "S" key in order to save the configuration file.

E. Copy the default configuration file to the apache2 directory in order to be able to access the web interface, run.

sudo cp /etc/squirrelmail/apache.conf /etc/apache2/sites-available/squirrelmail.conf

And enable it using:

sudo a2ensite squirrelmail.conf

Step 12: Finally, access the mail server by going to example.com/squirrelmail or 127.0.0.1/squirrelmail

SquirrelMail version 1.4.23 [SVN]
By the SquirrelMail Project Team

Step 13: In order to start using squirrelmail webmail, you'll have to create a new user, to do so, run.

```
$ sudo useradd mulushewa
```

Step 14: Replace "myusername" with the user name you want, create a password for the new user by running.

```
$ sudo passwd mulushewa
```

Step 16: Create a home folder for the user in /var/www/html/myusername and make it default home directory.

```
$ sudo mkdir -p /var/www/html/mulushewa

$ usermod -m -d /var/www/html/mulushewa mulushewa
```

Step 17: you have to give the user "myusername" the complete permissions on its home folder.

```
$ sudo chown -R mulushewa:mulushewa /var/www/html/mulushewa
```

Step 16: Now go back to the login page and enter the user name and the password of newly created user.