

## Space Efficient storage of email to address security questions

### Installing Sendmail:

```
$ sudo apt-get install sendmail
```

### Installing Milter Library:

```
$ sudo apt-get install libmilter-dev
```

```
$ sudo apt-get install libwrap0-dev
```

### Installing mpack

```
$ sudo apt-get install mpack
```

### Installing GTK header files:

```
$ sudo apt-get install libgtk+2
```

### File Locations:

The below files are important configuration files.

**Log file:** /var/log/mail.log

This file stores all the logging information about the mails at what time they are sent etc.,

**mc file:** /etc/mail/sendmail.mc

This file contains information about the milters and the order of execution of the milters. If any milter is newly added then we have to add information about this milter in this file.

**configuration file:** /etc/mail/sendmail.cf

This file also contains information about milters but it is automatically generated from mc file. This file should not be edited manually.

**mailbox:** /var/mail/<username> or /var/mail/root

This file contains all the mails of the user

### Adding Milter information to mc file:

```
dnl #<milter-name> added
```

```
INPUT_MAIL_FILTER(`<filter-name>',`S=inet:9999@localhost, F=T, T=C:
10m;S:1s;R:1s;E:5m')dnl
dnl#
```

### Generating configuration file:

```
m4 sendmail.mc > sendmail.cf
```

### Sending a Mail through locally installed mail server(sendmail):

```
$ telnet 127.0.0.1 25
```

```
helo localhost
```

```
mail from : <sender mail id>
```

```
rcpt to : <recipient mail id>
```

```
data
```

```
subject : <subject>
```

```
<body of mail>
```

```
.
```

```
quit
```

To send an attachment convert the attachment contents to MIME format using “mpack” and add the generated data to body of mail

```
$ mpack -s <subject> -o <outfile> <infile>
```

**Adding library and include paths of Milter library to .bashrc:**

```
C_INCLUDE_PATH=/usr/include/libmilter
export C_INCLUDE_PATH
LIBRARY_PATH=/usr/lib/libmilter
export LIBRARY_PATH
```

**Adding library and include paths of GTK library to .bashrc:**

```
GTK_INCLUDE_PATH=/usr/include/gtk-2.0
export GTK_INCLUDE_PATH
```

**Compiling Milter**

```
$ gcc -w -lmilter -lm -pthread <file-name>
```

**Compiling GTK program:**

```
$ gcc `pkg-config --cflags --libs gtk+-2.0` <file-name>
```

**Compiling the code:**

```
$ gcc -w -lmilter -lm -pthread SFilter.c bloom.c log.c -o SFilter
$ gcc -g `pkg-config --cflags gtk+-2.0` `pkg-config --libs gtk+-2.0` bloom.c mquery.c query.c -o
query
```

**Executing the code:**

```
$ ./SFilter
send the mail
$ ./query
```