MAIL System
in SuSE 10.1 and 10.2 Install

– Mail system: postfix, qpopper, amavis, clamav, kmail, imap, mail(for scripts)

Postfix : - add the local `eth0` addr in `/etc/postfix/main.cf`
        eg. `inet_interfaces = 127.0.0.1 ::1` **192.168.0.10**
  - run command: `rcpostfix restart`

POP3 server:
  - install `qpopper`
  - change the `/etc/xinetd.d/qpopper`
        `disable= no`
  - run command: `rcxinetd restart`

Watching incoming mails:
  run : `tail -f /var/log/mail`

Sending mails via scripts:
  `echo -e "hallo Martin,\n Message." | mail -s "Betreff" email@addresse`

Antivirus with Postfix:
  (Found Virusses will be stored in `/var/spool/amavis/virusmails/`)
  Install the following packages:
    `amavisd-new`
    `clamav`
    `clamav-db` (only if no internet connection) Taken from SuSE 10.0 DVD
  - Changes:
    - Edit the file `/etc/amavisd.conf`
      Adapt the follwoing line: to be the FQDN of the local host
      eg. `$mydomain = 'laptop.linux.site';`
    - Edit `/etc/postfix/master.cf` change the following first line from:

```
smtp  inet  n  -  n  -  2  smtpd
```
to
```
smtp  inet  n  -  n  -  2  smtpd -o content_filter=smtp:[127.0.0.1]:10024
```
and uncomment the following line(delete the first '#' in this line)
```
localhost:10025 inet  n  -  n  -  -  smtpd -o content_filter=
```

Run the commands:

  For SuSE 10.1 only: (apparmor disturbs the connection of Postfix to amavis)
    `rcapparmor stop`
    `cp /sbin/rcapparmor /etc/init.d/apparmor`
    `insserv -r apparmor`

For all SuSE
```
insserv amavis
insserv freshclam
rcamavis start
rcfreshclam start
rcpostfix restart
freshclam
```
`freshclam` (to start the download of the virus database from the Internet)

POP3S (Secure pop3) Configuration
- Install the package '`imap`'

- Run the commands:
  ```
  cd /etc/ssl/certs
  openssl req -new -x509 -nodes -out ipop3d.pem -keyout ipop3d.pem
  ```
  Answer the questions(can be anything)

- Edit the file `/etc/xinetd.d/imap`
  Under the section '`service pop3s`'
  ```
      disable = no
  ```

- Run the command `rcxinetd restart`

- In the Mail client pop configuration,
  - use `SSL` and `LOGIN` or `PLAIN` Login method.
  - Enter the user login name and password.

Secure SMTP with SASL(SuSE 9.2/10.x)
- **Installation:**
  Install the following packages:
  ```
      cyrus-sasl, cyrus-sasl-saslauthd
  ```
  Optional for other auth. mechanism
  ```
       cyrus-sasl-crammd5, cyrus-sasl-digestmd5
  ```

- **Postfix basic configuration:**
  in `/etc/postfix/main.cf`
  Make sure that following 2 parameters are entered properly:
  ```
      inet_interfaces = 127.0.0.1  ::1   <HostIP>
      myhostname = <Hostname>
  ```
  eg. `inet_interfaces = 127.0.0.1  ::1  192.168.100.70`
  ```
      myhostname = laptop.linux.site
  ```

- **To activate `sasl` authentication do the following:**
   in `/etc/postfix/main.cf`

  ```
  broken_sasl_auth_clients = yes
  smtpd_sasl_auth_enable = yes
  smtpd_recipient_restrictions =
  ```

```
permit_mynetworks,
permit_sasl_authenticated,
reject_unauth_destination
```

- **Use the server's shadow password system via PAM:**
  - Start the `saslauthd` Daemon:
    ```
    rcsaslauthd start
    insserv saslauthd  (for permanent start at boot time)
    ```

  - Verify that In SuSE 10.1 `/usr/lib/sasl2/smtpd.conf`:
    or SuSE 10.2 `/etc/sasl2/smtpd.conf`:
    ```
    pwcheck_method: saslauthd
    mech_list: plain login
    ```

    - To add new users to sasl authentication:
      ```
      mkdir /etc/empty
      useradd -mk /etc/empty -s /bin/false username
      ```

    - To test locally the `sasl` authentication:
      ```
      testsaslauthd -u username -p password
      ```

- **MAILDIR Mailbox configuration:**
  Normally the mailbox is in `/var/mail/username` in 'mbox' format.
  To change the mailbox type to **Maildir** Format do the following:
  - In `/etc/postfix/main.cf`:
    Make sure the directive 'mailbox_command' is as follows:
    ```
    mailbox_command = procmail -a "$EXTENSION"
    ```
  - Add the `~/.procmailrc` file with the following content(NOT `/etc/procmailrc`):
    ```
    MAILDIR=$HOME/Maildir
    :0
    $MAILDIR/
    ```

  - Add a copy of the file `~/.procmailrc` `/etc/skel/.procmailrc`
    Add the additional directory: `/etc/skel/Maildir/`
    and the following subdirectories: `/etc/skel/Maildir/cur`
                                           `/etc/skel/Maildir/new`
                                           `/etc/skel/Maildir/tmp`
  - Create the same structure for each existing user. eg.
                                           `/home/username/Maildir/`
                                           `/home/username/Maildir/cur`
                                           `/home/username/Maildir/new`
                                           `/home/username/Maildir/tmp`
  and give their ownership to the user.
    ```
    chown -R username. /home/username/Maildir/
    ```

- Add a copy of the file `~/.procmailrc`   `/home/`*username*`/.procmailrc`

- If the `dovecot-imapd` is used, Make sure it is configured accordingly:
```
/etc/dovecot/dovecot.conf
      protocols = imap
      mail_location = maildir:~/Maildir
      maildir_copy_with_hardlinks=yes
```
- No special changes needed for `squirrelmail`

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• **MAIL CLIENT configuration:**
   - Port 25
   - Need authentication (Give name and password)
   - Encryption=`NONE`
   - Authentication=`PLAIN` or `LOGIN`

• More info in:
   `/usr/share/doc/packages/postfix/README_FILES/SASL_README`

• **Forward und Vacation Funktionen**

The file   `~/.forward`
will activate the forwarding of the user's mail to another local user.
Just enter the local username of the user to which the mail should be forwarded.