

Mail Server Basics:

- SMTP Server: to receive mails (via port 25)
- POP3 Server: to allow retrieval of mails (via port 110)

qmail:

- <http://www.qmail.org>
- <http://www.lifewithqmail.com/lwq.html>
- located in /var/qmail + /var/log/qmail
- configuration: in /var/qmail/control
- processes:

```

root      6209  0.0  0.4 /bin/sh /command/svscanboot
root      6211  0.0  0.1 \_ svscan /service
root      6306  0.0  0.1 | \_ \_ supervise qmail-send
qmails    6359  0.0  0.1 | | \_ \_ qmail-send
root      6368  0.0  0.1 | | \_ \_ qmail-lspawn ./Mailbox
qmailr    6369  0.0  0.1 | | \_ \_ qmail-rspawn
qmailq    6370  0.0  0.1 | | \_ \_ qmail-clean
root      6308  0.0  0.1 | | \_ supervise log
qmail    6360  0.0  0.1 | | \_ /usr/local/bin/multilog t /var/log/qmail
root      6310  0.0  0.1 | | \_ supervise qmail-smtpd
qmaild    6362  0.0  0.2 | | \_ /usr/local/bin/tcpserver -v -R -l [...]
root      6312  0.0  0.1 | | \_ supervise log
qmail    6361  0.0  0.1 | | \_ /usr/local/bin/multilog t /var/log/[...]

```

-> svscan = "qmail's daemon management" -> will start "supervisors" for everything listed in /services/ (daemontools - <http://cr.yip.to/daemontools.html>)

-> supervise: make sure the "qmail-send" process never dies (and restart it if it happens)

-> "init scripts" : in /var/qmail/supervise/*/run

-> qmail-send: main qmail "loop"
 qmail-lspawn : local delivery queue
 qmail-rspawn : remote delivery queue
 qmail-clean : cleaup
 (<http://www.nrg4u.com/qmail/the-big-qmail-picture-103-p1.gif>)

-> qmail-smtpd : manage smtp connections

-> tcpserver: tcp port network listener -> qmail-smtpd

- logfiles: /var/log/qmail

- restart: qmailctl restart

SMTP Session

```
abbtS1:~# telnet localhost 25
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
220 yourhostname.abbtS.ch ESMTP
EHLO
250-yourhostname.abbtS.ch
250-PIPELINING
250 8BITMIME
MAIL FROM: omtest@somedomain.ext
250 ok
RCPT TO: vorname
250 ok
DATA
354 go ahead
Subject: test Mail

ok so?
gut!

.
250 ok 1200999831 qp 6515
QUIT
221 yourhostname.abbtS.ch
Connection closed by foreign host.
```

POP3 Session

```
abbtS1:~# telnet localhost 110
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
+OK <6873.1201000830@FQDN>
USER vorname
+OK
PASS abcd
-ERR authorization failed
Connection closed by foreign host.

abbtS1:~# telnet localhost 110
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
+OK <6876.1201000838@FQDN>
USER vorname
+OK
PASS *****
+OK
STAT
+OK 1 260
RETR 1
+OK
Return-Path: <om@omx.ch>
Delivered-To: om@yourhostname.abbtS.ch
Received: (qmail 6459 invoked from network); 22 Jan 2008 11:00:09 -0000
Received: from localhost (HELO ) (127.0.0.1)
  by yourhostname.abbtS.ch with SMTP; 22 Jan 2008 11:00:09 -0000
Subject: abc

.
QUIT
+OK
Connection closed by foreign host.
abbtS1:~#
```