

Sample Script of a sendmail install.

Sendmail 8.12.2 on RedHat Linux 7.2

Commands typed by the user are **in bold and slightly larger**
Things of interest and error messages are underlined.
My comments are in italics.

The system prompt for this host is set to: [userid@host pwd]
The host name is "grumpy"

Script started on Thu Feb 21 18:15:20 2002
[harold@grumpy harold]\$ **cat /etc/issue**

Red Hat Linux release 7.2 (Enigma)
Kernel 2.4.9-21 on an i686

*This install is being done on a clean RedHat Linux version
7.2 system. All patches available on Wednesday, 20 Feb 2002
have been installed before starting this sendmail install.*

[harold@grumpy harold]\$ **rpm -q -a | grep sendmail**
sendmail-8.11.6-3
sendmail-cf-8.11.6-3

[harold@grumpy harold]\$ **telnet localhost 25**
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^'.
220 grumpy.ucns.uga.edu ESMTP Sendmail 8.11.6/8.11.6; Thu, 21 Feb 2002 18:16:08 -0500
quit
221 2.0.0 grumpy.ucns.uga.edu closing connection
Connection closed by foreign host.

*As you can see above, the default sendmail installed with
RedHat Linux 7.2 is Sendmail 8.11.6. We will be installing
The latest version, version 8.12.2.*

[harold@grumpy harold]\$ ftp **ftp.sendmail.org**
Connected to ftp.sendmail.org (209.246.26.22).
220 services.sendmail.org FTP server (Version 6.00LS) ready.
Name (ftp.sendmail.org:harold): **anonymous**
331 Guest login ok, send your email address as password.
Password:
230- This directory contains sendmail 8.x source distributions. Those
230- interested in mirroring the sendmail distribution tree should read
230- the MIRROR file in this directory.
230-
230- The latest version is available in sendmail.8.12.2.tar.{z,gz,sig} --

230- the .Z file is compressed, the .gz file is the same bits gzipped, and
230- the .sig file is a PGP signature for the uncompressed bits in either
230- of the first two files. Please take ONLY ONE of the .Z or .gz files.
230-
230- A commercial version of sendmail 8.11 including precompiled ``push
230- button'' install and a GUI configuration and administration interface
230- is available from Sendmail, Inc. (see <http://www.sendmail.com/>
230- for details).
230-
230- Older versions are in sendmail.\${VER}.tar.{Z,gz,sig}. Except for the
230- latest, these are unsupported by the Sendmail.ORG crew. The status of
230- various interesting \${VER}s is:
230-
230- 8.12.2 Portability enhancements and minor bug fixes.
230- 8.12.1 Fixes potential local security problem.
230- 8.12.0 Enhanced security and performance; no more set-user-ID root.
230- 8.11.6 Fixes command line processing security problem.
230- Support for STARTTLS and SASL encryption.
230- 8.10.2 Detect and avoid a serious Linux capabilities security bug.
230- 8.10.1 Bug fix release: avoids dangerous AIX 4.X linker behavior
230- 8.10.0 Major new release: multiple queues, SMTP authentication, LDAP
230- integration, IPv6, enhanced SMTP status codes, and more.
230- 8.9.3 header denial of service fixed. Minor fixes.
230-
230- Since sendmail 8.11 and later includes hooks to cryptography, the
230- following information from OpenSSL applies to sendmail as well.
230-
230- PLEASE REMEMBER THAT EXPORT/IMPORT AND/OR USE OF STRONG CRYPTOGRAPHY
230- SOFTWARE, PROVIDING CRYPTOGRAPHY HOOKS OR EVEN JUST COMMUNICATING
230- TECHNICAL DETAILS ABOUT CRYPTOGRAPHY SOFTWARE IS ILLEGAL IN SOME
230- PARTS OF THE WORLD. SO, WHEN YOU IMPORT THIS PACKAGE TO YOUR
230- COUNTRY, RE-DISTRIBUTE IT FROM THERE OR EVEN JUST EMAIL TECHNICAL
230- SUGGESTIONS OR EVEN SOURCE PATCHES TO THE AUTHOR OR OTHER PEOPLE
230- YOU ARE STRONGLY ADVISED TO PAY CLOSE ATTENTION TO ANY EXPORT/IMPORT
230- AND/OR USE LAWS WHICH APPLY TO YOU. THE AUTHORS ARE NOT LIABLE FOR
230- ANY VIOLATIONS YOU MAKE HERE. SO BE CAREFUL, IT IS YOUR RESPONSIBILITY.
230-
230- \$Revision: 8.21 \$, Last updated \$Date: 2002/01/13 19:50:00 \$
230 Guest login ok, access restrictions apply.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> **cd pub/sendmail**
250 CWD command successful.
ftp> **dir**
227 Entering Passive Mode (209,246,26,22,200,69)
150 Opening ASCII mode data connection for '/bin/ls'.
total 81460
drwxrwx--x 2 gshapiro sendmail 512 Oct 17 18:54 .alpha
drwxrwx--x 2 gshapiro sendmail 512 Jan 15 04:48 .beta
-rw-rw-r-- 1 gshapiro sendmail 2222 Jan 14 00:09 .message
-rw-rw-r-- 1 gshapiro sendmail 321 Jul 31 2001 FAQ
-rw-rw-r-- 1 gshapiro sendmail 9519 Jan 14 00:09 KNOWNBUGS
-rw-rw-r-- 1 ca sendmail 4117 Sep 8 16:22 LICENSE
-rw-rw-r-- 1 gshapiro sendmail 1510 Jul 31 2001 MIRROR
-rw-rw-r-- 1 ca sendmail 54971 Dec 19 19:10 PGPKEYS
-rw-rw-r-- 1 ca sendmail 426979 Jan 14 00:09 RELEASE_NOTES

```

-r--r--r-- 1 gshapiro  sendmail    39672 Jul 15  2000 bsdworkshop93.ps
drwxrwxr-x 2 gshapiro  sendmail    2048 Aug 28 00:21 past-releases
lrwxr-xr-x 1 ca        sendmail     21 Jan 14 00:09 sendmail-current.tar.Z ->
sendmail.8.12.2.tar.Z
lrwxr-xr-x 1 ca        sendmail     22 Jan 14 00:09 sendmail-current.tar.gz ->
sendmail.8.12.2.tar.gz
lrwxr-xr-x 1 ca        sendmail     23 Jan 14 00:09 sendmail-current.tar.sig ->
sendmail.8.12.2.tar.sig
-r--r--r-- 1 gshapiro  sendmail     7233 Jul 15  2000 sendmail.8.10.0.AIX-SECURITY
-r--r--r-- 1 gshapiro  sendmail   1757767 Jul 15  2000 sendmail.8.10.0.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1255157 Jul 15  2000 sendmail.8.10.0.tar.gz
-r--r--r-- 1 gshapiro  sendmail     365 Jul 15  2000 sendmail.8.10.0.tar.sig
-r--r--r-- 1 gshapiro  sendmail    4924 Jul 15  2000 sendmail.8.10.1.LINUX-
SECURITY
-r--r--r-- 1 gshapiro  sendmail   1756872 Jul 15  2000 sendmail.8.10.1.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1254539 Jul 15  2000 sendmail.8.10.1.tar.gz
-r--r--r-- 1 gshapiro  sendmail     365 Jul 15  2000 sendmail.8.10.1.tar.sig
-r--r--r-- 1 gshapiro  sendmail   1760614 Jul 15  2000 sendmail.8.10.2.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1256459 Jul 15  2000 sendmail.8.10.2.tar.gz
-r--r--r-- 1 gshapiro  sendmail     365 Jul 15  2000 sendmail.8.10.2.tar.sig
-r--r--r-- 1 ca        sendmail   1925764 Aug 20  2001 sendmail.8.11.6.tar.Z
-r--r--r-- 1 ca        sendmail   1374835 Aug 20  2001 sendmail.8.11.6.tar.gz
-r--r--r-- 1 ca        sendmail     366 Aug 20  2001 sendmail.8.11.6.tar.sig
-r--r--r-- 1 ca        sendmail   2543085 Sep  8 17:40 sendmail.8.12.0.tar.Z
-r--r--r-- 1 ca        sendmail   1783911 Sep  8 17:40 sendmail.8.12.0.tar.gz
-r--r--r-- 1 ca        sendmail     348 Sep  8 17:40 sendmail.8.12.0.tar.sig
-rw-r--r-- 1 ca        sendmail   2560266 Oct  1 16:00 sendmail.8.12.1.tar.Z
-rw-r--r-- 1 ca        sendmail   1790933 Oct  1 16:00 sendmail.8.12.1.tar.gz
-rw-r--r-- 1 ca        sendmail     348 Oct  1 16:00 sendmail.8.12.1.tar.sig
-rw-r--r-- 1 ca        ca        2603981 Dec 18 16:02 sendmail.8.12.2.Beta3.tar.Z
-rw-r--r-- 1 ca        ca        1824153 Dec 18 16:04 sendmail.8.12.2.Beta3.tar.gz
-rw-r--r-- 1 ca        ca          152 Dec 18 16:04
sendmail.8.12.2.Beta3.tar.sig
-rw-r--r-- 1 ca        sendmail   2614141 Jan 14 00:07 sendmail.8.12.2.tar.Z
-rw-r--r-- 1 ca        sendmail   1834935 Jan 14 00:07 sendmail.8.12.2.tar.gz
-rw-r--r-- 1 ca        sendmail     152 Jan 14 00:07 sendmail.8.12.2.tar.sig
-r--r--r-- 1 gshapiro  sendmail   1467354 Jul 15  2000 sendmail.8.9.0.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1041425 Jul 15  2000 sendmail.8.9.0.tar.gz
-r--r--r-- 1 gshapiro  sendmail     152 Jul 15  2000 sendmail.8.9.0.tar.sig
-r--r--r-- 1 gshapiro  sendmail   172632 Jul 15  2000 sendmail.8.9.1.patch
-r--r--r-- 1 gshapiro  sendmail   1475311 Jul 15  2000 sendmail.8.9.1.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1046322 Jul 15  2000 sendmail.8.9.1.tar.gz
-r--r--r-- 1 gshapiro  sendmail     152 Jul 15  2000 sendmail.8.9.1.tar.sig
-r--r--r-- 1 gshapiro  sendmail   12195 Jul 15  2000 sendmail.8.9.1a.patch
-r--r--r-- 1 gshapiro  sendmail     5327 Jul 15  2000 sendmail.8.9.1a.patch.README
-r--r--r-- 1 gshapiro  sendmail     284 Jul 15  2000 sendmail.8.9.1a.patch.sig
-r--r--r-- 1 gshapiro  sendmail   409886 Jul 15  2000 sendmail.8.9.2.patch
-r--r--r-- 1 gshapiro  sendmail   1499042 Jul 15  2000 sendmail.8.9.2.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1063534 Jul 15  2000 sendmail.8.9.2.tar.gz
-r--r--r-- 1 gshapiro  sendmail     285 Jul 15  2000 sendmail.8.9.2.tar.sig
-r--r--r-- 1 gshapiro  sendmail   123078 Jul 15  2000 sendmail.8.9.3.patch
-r--r--r-- 1 gshapiro  sendmail   1492367 Jul 15  2000 sendmail.8.9.3.tar.Z
-r--r--r-- 1 gshapiro  sendmail   1068290 Jul 15  2000 sendmail.8.9.3.tar.gz
-r--r--r-- 1 gshapiro  sendmail     285 Jul 15  2000 sendmail.8.9.3.tar.sig
226 Transfer complete.

```

```
ftp> bin
200 Type set to I.
```

```
ftp> prompt
Interactive mode off.
```

```
ftp> get sendmail.8.12.2.tar.gz
local: sendmail.8.12.2.tar.gz remote: sendmail.8.12.2.tar.gz
227 Entering Passive Mode (209,246,26,22,200,70)
150 Opening BINARY mode data connection for 'sendmail.8.12.2.tar.gz' (1834935
bytes).
226 Transfer complete.
1834935 bytes received in 12 secs (1.5e+02 Kbytes/sec)
ftp> quit
221 Goodbye.
```

```
[harold@grumpy harold]$ ls -F
sendmail.8.12.2.tar.gz
```

Extract the sendmail package from the downloaded tar archive file.

```
[harold@grumpy harold]$ tar xzf sendmail.8.12.2.tar.gz
[harold@grumpy harold]$ ls -F
sendmail-8.12.2          sendmail.8.12.2.tar.gz
[harold@grumpy harold]$ cd sendmail-8.12.2/
```

Now, lets set up a site configuration file to provide for the compilation of sendmail using the CMU Cyrus sasl client server authentication library.

```
[harold@grumpy sendmail-8.12.2]$ cd devtools/Site
[harold@grumpy Site]$ vi site.config.m4
[harold@grumpy Site]$ cat site.config.m4
APPENDEF(`conf_sendmail_ENVDEF', `-DSASL')
APPENDEF(`conf_sendmail_LIBS', `-lsasl')
```

Now, compile the sendmail package

```
[harold@grumpy Site]$ cd ../../
[harold@grumpy sendmail-8.12.2]$ sh Build
Making all in:
/home/harold/sendmail-8.12.2/libsm
Configuration: pfx=, os=Linux, rel=2.4.9-21, rbase=2, rroot=2.4, arch=i686, sfx=,
variant=optimized
Using M4=/usr/bin/m4
Creating /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm using
/home/harold/sendmail-8.12.2/devtools/OS/Linux
Including /home/harold/sendmail-8.12.2/devtools/Site/site.config.m4
Making dependencies in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm
```

```
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm'
rm -f sm_os.h
ln -f -s ../../include/sm/os/sm_os_linux.h sm_os.h
cc -M -I. -I../../include -DNEWDB  assert.c debug.c errstring.c exc.c heap.c
match.c rpool.c strdup.c strerror.c strt.c clrerr.c fclose.c feof.c ferror.c
fflush.c fget.c fpos.c findfp.c flags.c fopen.c fprintf.c fpurge.c fput.c fread.c
fscanf.c fseek.c fvwrite.c fwalk.c fwrite.c get.c makebuf.c put.c refill.c rewind.c
setvbuf.c smstdio.c snprintf.c sscanf.c stdio.c strio.c ungetc.c vasprintf.c
vfprintf.c vfprintf.c vprintf.c vsnprintf.c vsprintf.c vsscanf.c wbuf.c wsetup.c
string.c stringf.c xtrap.c strt.c test.c path.c strcasecmp.c strrevcmp.c signal.c
clock.c config.c shm.c mddb.c strexit.c cf.c ldap.c nipro.c mpeix.c
>> Makefile
make[1]: Leaving directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm'
Making in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm'
cc -O2 -I. -I../../include -DNEWDB      -c -o assert.o assert.c
cc -O2 -I. -I../../include -DNEWDB      -c -o debug.o debug.c
```

----- snip -----

```
Making all in:
/home/harold/sendmail-8.12.2/vacation
Configuration: pfx=, os=Linux, rel=2.4.9-21, rbase=2, rroot=2.4, arch=i686, sfx=,
variant=optimized
Using M4=/usr/bin/m4
Creating /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation using
/home/harold/sendmail-8.12.2/devtools/OS/Linux
Including /home/harold/sendmail-8.12.2/devtools/Site/site.config.m4
Making dependencies in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
rm -f sm_os.h
ln -f -s ../../include/sm/os/sm_os_linux.h sm_os.h
cc -M -I. -I../../sendmail -I../../include -DNEWDB -DNOT_SENDMAIL  vacation.c
>> Makefile
make[1]: Leaving directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
Making in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
cc -O2 -I. -I../../sendmail -I../../include -DNEWDB -DNOT_SENDMAIL      -c -o
vacation.o vacation.c
cc -o vacation  vacation.o      /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsmdb/libsmdb.a /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsmutil/libsmutil.a /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm/libsm.a -ldb -lresolv -lcrypt -lnsl -ldl
groff -Tascii -man vacation.1 > vacation.0 || cp vacation.0.dist vacation.0
make[1]: Leaving directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
```

```
[harold@grumpy sendmail-8.12.2]$ su -
Password:
```

Now, there are several things we need to do. First ts to create the special group and userid used by sendmail 8.12 to own the sendmail process and files. We also need to create a symbolic link so that the install procedure can find the man page directories. RedHat version 7 moved them and sendmail has not yet picked this up.

```
[root@grumpy root]# groupadd -g 25 -r smmsp
[root@grumpy root]# useradd -u 25 -r -g smmsp smmsp
[root@grumpy root]# ln -s /usr/share/man /usr/man
```

Backup the old sendmail executables and configuration files

```
[root@grumpy root]# cd /usr/sbin
[root@grumpy sbin]# cp -p sendmail sendmail.old
[root@grumpy sbin]# cd /etc
[root@grumpy etc]# cp -p sendmail.cf sendmail.cf.old
```

Install the new version of sendmail

```
[root@grumpy etc]# cd ~harold/sendmail-8.12.2/
[root@grumpy sendmail-8.12.2]# sh Build install
Making all in:
/home/harold/sendmail-8.12.2/libsm
Configuration: pfx=, os=Linux, rel=2.4.9-21, rbase=2, rroot=2.4, arch=i686, sfx=,
variant=optimized
Making in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm'
make[1]: Nothing to be done for `install'.
make[1]: Leaving directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/libsm'
```

----- snip -----

```
Making all in:
/home/harold/sendmail-8.12.2/vacation
Configuration: pfx=, os=Linux, rel=2.4.9-21, rbase=2, rroot=2.4, arch=i686, sfx=,
variant=optimized
Making in /home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation
make[1]: Entering directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
install -c -o bin -g bin -m 555 vacation /usr/bin
install -c -o bin -g bin -m 444 vacation.0 /usr/man/man1/vacation.1
make[1]: Leaving directory `/home/harold/sendmail-8.12.2/obj.Linux.2.4.9-21.i686/vacation'
```

Find and kill the old sendmail

```
[root@grumpy sendmail-8.12.2]# ps ax | grep sendmail
```

```
  978 ?          S          0:00 sendmail: accepting connections
18333 pts/1     S          0:00 grep sendmail
[root@grumpy sendmail-8.12.2]# kill 978
```

Start the new sendmail, This also illustrates that sendmail 8.12 has moved the configuration file from /etc to /etc/mail

```
[root@grumpy sendmail-8.12.2]# /usr/sbin/sendmail -bd -q1h
451 4.0.0 /etc/mail/sendmail.cf: line 0: cannot open: No such file or directory
[root@grumpy sendmail-8.12.2]# cd ~harold/send-mail-8.12.2/cf/cf
[root@grumpy cf]# cp generic-linux.cf /etc/mail/sendmail.cf
[root@grumpy cf]# /usr/sbin/sendmail -bd -q1h
[root@grumpy cf]# telnet localhost 25
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^'.
220 grumpy.ucns.uga.edu SMTP Sendmail 8.12.2/8.12.2; Thu, 21 Feb 2002 18:31:35 -
0500
quit
221 2.0.0 grumpy.ucns.uga.edu closing connection
Connection closed by foreign host.
```

```
[root@grumpy cf]# ps ax | grep sendmail
18342 ?          S          0:00 sendmail: accepting connections
18347 pts/1     S          0:00 grep sendmail
```

```
[root@grumpy cf]# cd /etc/mail
[root@grumpy mail]# ls -F
maccess          helpfile          Makefile          submit.cf
maccess.db       local-host-names  sendmail.cf       trusted-users
domaintable      mailertable       sendmail.mc       virtusertable
domaintable.db  mailertable.db   statistics        virtusertable.db
```

```
[m[root@grumpy mail]# sendmail -bi
newaliases: cannot open /etc/mail/aliases: No such file or directory
[root@grumpy mail]# mv /etc/aliases /etc/mail
[root@grumpy mail]# sendmail -bi
/etc/mail/aliases: 41 aliases, longest 14 bytes, 413 bytes total
```

```
[root@grumpy mail]# mailq
/var/spool/mqueue is empty
Total requests: 0
```

Now, let's test the new sendmail

```
[root@grumpy mail]# sendmail -v harold@uga.edu
this is a test
```

.

```

harold@uga.edu... Connecting to localhost via relay...
220 grumpy.ucns.uga.edu ESMTTP Sendmail 8.12.2/8.12.2; Thu, 21 Feb 2002 18:33:46 -
0500
>>> EHLO grumpy.ucns.uga.edu
250-grumpy.ucns.uga.edu Hello localhost.localdomain [127.0.0.1], pleased to meet
you
250-ENHANCEDSTATUSCODES
250-PIPELINING
250-EXPN
250-VERB
250-8BITMIME
250-SIZE
250-DSN
250-ETRN
250-DELIVERBY
250 HELP
>>> MAIL From:<root@grumpy.ucns.uga.edu> SIZE=15
250 2.1.0 <root@grumpy.ucns.uga.edu>... Sender ok
>>> RCPT To:<harold@uga.edu>
>>> DATA
250 2.1.5 <harold@uga.edu>... Recipient ok
354 Enter mail, end with "." on a line by itself
>>> .
250 2.0.0 g1LNxknU018354 Message accepted for delivery
harold@uga.edu... Sent (g1LNxknU018354 Message accepted for delivery)
Closing connection to localhost
>>> QUIT
221 2.0.0 grumpy.ucns.uga.edu closing connection

```

Ok, now we're done unless you need to be able to selectively relay mail from other sites. To do this, you need to re-build the sendmail.cf file with this option turned on.

```

[root@grumpy mail]# cd ~harold/sendmail-8.12.2/cf/cf
[root@grumpy cf]# cp generic-linux.mc grumpy.mc
[root@grumpy cf]# vi grumpy.mc
[root@grumpy cf]# cat grumpy.mc

--- snip ---
OSTYPE(linux)dnl
DOMAIN(generic)dnl
FEATURE(access_db)dnl
MAILER(local)dnl
MAILER(smtp)dnl

[root@grumpy cf]# make grumpy.cf
rm -f grumpy.cf
m4 ../m4/cf.m4 grumpy.mc > grumpy.cf || ( rm -f grumpy.cf && exit 1 )
chmod 444 grumpy.cf

[root@grumpy cf]# cp grumpy.cf /etc/mail/sendmail.cf

```


Use the text editor to edit the file /etc/mail/access, adding lines in accordance with the instructions in the README file found in sendmail-8.12.2/cf. In this case, I added one line to the default file, and you can see the results below:

```
[root@grumpy cf]# cd /etc/mail
[root@grumpy mail]# vi access
[root@grumpy mail]# cat access
# Check the /usr/share/doc/sendmail-8.11.2/README.cf file for a description
# of the format of this file. (search for access_db in that file)
# The /usr/share/doc/sendmail-8.11.2/README.cf is part of the sendmail-doc
# package.
#
# by default we allow relaying from localhost...
localhost.localdomain          RELAY
localhost                      RELAY
127.0.0.1                      RELAY
harold.ucns.uga.edu            RELAY
```

```
[root@grumpy mail]# ps ax | grep sendmail
18342 ?          S        0:00 sendmail: accepting connections
18372 pts/1    S        0:00 grep sendmail
[root@grumpy mail]# kill 18342
[root@grumpy mail]# /usr/sbin/sendmail -bd -q1h
[root@grumpy mail]# exit
logout
[harold@grumpy sendmail-8.12.2]$ exit
Script done on Thu Feb 21 18:39:41 2002
```