

Sendmail

The Sendmail program is a very widely used Mail Transport Agent (MTA). MTAs send mail from one machine to another. Sendmail is not a client program, which you use to read your email. Sendmail is a behind-the-scenes program which actually moves your email over networks or the Internet to where you want it to go. If you ever need to reconfigure Sendmail, you will also need to have the sendmail.cf package installed. If you need documentation on Sendmail, you can install the sendmail-doc package.

The process name of the service = sendmail
Name of the rpm = sendmail

- Make sure the sendmail / postfix / qmail etc. rpms are installed
Note: The mailx or mail client requires one of the following MTA service to be running in order to send outgoing mail
 1. sendmail
 2. qmail
 3. postfix etc.
- First check to see if you OS has already service rpm package installed on the system

```
rpm -qa | grep sendmail
sendmail-x.x.x.x86_64
sendmail-cf.x.x.x86_64
```
- If the above rpms exist then you can proceed with the configuration
- If the rpms do not exist then download the package/rpm using yum command

```
yum install sendmail -y
```
- Once the package is installed make changes to the following configuration file:

```
/etc/mail/sendmail.cf
/etc/mail/submit.cf
/etc/mail/main.cf
```

Add Mail relay IP or hostname where server parameters are defined

```
# "Smart" relay host (may be null)
#DSmailhost$m.$m$.
DShostname.domain.com     (Relay information)
```
- Now start the service

```
systemctl restart sendmail
```
- Also in order to have the service startup at the boot time run the following command

```
Systemctl enable sendmail
```
- Logs location

```
/var/log/maillog
```
- Commands

```
- ps -ef | grep sendmail
OR
- systemctl status sendmail
```

- `mail -s "Subject line" first.last@mail.com` → hit enter
<Enter Body>
Control D to finish the message and send
OR use
`/usr/ucb/Mail -s "Subject again"` (Solaris)

- **Show sendmail queue**

`/usr/sbin/sendmail -bp`

- **Troubleshooting**

- Do `ps -ef | grep sendmail` or postfix etc. and make sure its running
- Make sure the `/etc/hosts` has mailhost entry
- Make sure the `/etc/resolv.conf` file has the proper setting for DNS
- Check the mailx to see error messages
- Make sure the DNS has the forward and reverse entries for the host
- Make sure the relay information is set in `/etc/mail/submit.cf` and `/etc/mail/sendmail.cf`
- Make sure the firewall is off/stopped. Run `service iptables stop`
- Check for "Connection timed out" messages in `/var/log/maillog`
- Try to copy `submit.cf` and `sendmail.cf` (if running sendmail) from a working machine and restart sendmail daemon. "service sendmail restart"
- Also make the `/etc/resolv.conf` file of DNS server should have the nameserver as localhost

- **Forward OS mail messages to System Administrator**

Edit `/.forward` file and add an e-mail address where you would like to get the root e-mails instead of logging it and checking

`/.forward` format

`First.last@mail.com /root`

- **How to delete mail while in reading mode**

`dl-range`

e.g: `dl-999`

- **To Add Mail in a script**

`echo "Body"|mailx -s "Subject" first.last@mail.com`