Installing and Configuring MTA software

The following screen shots are the most relevant actions taken to install the MTA software on my mail server.

My domain is dsctux.net, and my mail server is named mail.dsctux.net. The IP address of the machine is 144.38.214.4
Install MTA server

```
root@mail:/# apt-get install exim4
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  ssl-cert
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  bsd-mailx exim4-base exim4-config exim4-daemon-light ssl-cert
Suggested packages:
  eximon4 exim4-doc-html exim4-doc-info libmail-spf-query-perl swaks
Recommended packages:
  mailx
The following NEW packages will be installed:
  bsd-mailx exim4 exim4-base exim4-config exim4-daemon-light ssl-cert
0 upgraded, 6 newly installed, 0 to remove and 0 not upgraded.
Need to get 2,110kB of archives.
After this operation, 4,579kB of additional disk space will be used.
Do you want to continue [Y/n]? [n]
```
Configure the software

... Selecting previously deselected package ssl-cert.
Unpacking ssl-cert (from .../ssl-cert_1.0.23ubuntu2_all.deb) ...
Processing triggers for man-db ...
Processing triggers for uredaahead ...
Setting up exim4-config (4.71-3ubuntu1.3) ...
Adding system-user for exim (v4)

Setting up exim4-base (4.71-3ubuntu1.3) ...

Setting up exim4-daemon-light (4.71-3ubuntu1.3) ...
    * Starting MTA

Setting up exim4 (4.71-3ubuntu1.3) ...

Setting up bsd-mailx (8.1.2-0.20090911cvs-2ubuntu1) ...
update-alternatives: using /usr/bin/bsd-mailx to provide /usr/bin/mailx (mailx)
in auto mode.

Setting up ssl-cert (1.0.23ubuntu2) ...

root@mail:/# dpkg-reconfigure exim4-config
Send around the firewall, but receive directly

General type of mail configuration:

- internet site; mail is sent and received directly using SMTP
- mail sent by smarthost; received via SMTP or fetchmail
- mail sent by smarthost; no local mail
- local delivery only; not on a network
- no configuration at this time
Name of MTA system

Mail Server configuration

System mail name:

mail.dsctux.net

<Ok> <Cancel>
IP address of the MTA system

IP-addresses to listen on for incoming SMTP connections:

127.0.0.1 ; ::1 ; 144.38.214.4

<Ok> <Cancel>
Receive message to MTA's name or to domain name
Relay message for entire LAN

Please enter a semicolon-separated list of IP address ranges for which this system will unconditionally relay mail, functioning as a smarthost.

You should use the standard address/prefix format (e.g. 194.222.242.0/24 or 5f03:1200:836f::/48).

If this system should not be a smarthost for any other host, leave this list blank.

Machines to relay mail for:

144.38.214.0/27

<Ok>  <Cancel>
Outgoing message go around the firewall

Please enter the IP address or the host name of a mail server that this system should use as outgoing smarthost. If the smarthost only accepts your mail on a port different from TCP/25, append two colons and the port number (for example `smarthost.example::587` or `192.168.254.254::2525`). Colons in IPv6 addresses need to be doubled.

If the smarthost requires authentication, please refer to the Debian-specific README files in `/usr/share/doc/exim4-base` for notes about setting up SMTP authentication.

IP address or host name of the outgoing smarthost:

```
stumail.cs.dixie.edu
```

<Ok>  <Cancel>
Allow From address to contain the hostname

The headers of outgoing mail can be rewritten to make it appear to have been generated on a different system. If this option is chosen, 'mail.dsctux.net', 'localhost' and 'mail.dsctux.net ; dsctux.net' in From, Reply-To, Sender and Return-Path are rewritten.

Hide local mail name in outgoing mail?

<Yes> <No>
Don't worry about Dial-on-Demand
Exim is able to store locally delivered email in different formats. The most commonly used ones are mbox and Maildir. mbox uses a single file for the complete mail folder stored in /var/mail/. With Maildir format every single message is stored in a separate file in ~/Maildir/.

Please note that most mail tools in Debian expect the local delivery method to be mbox in their default.

Delivery method for local mail:

- **mbox format in /var/mail/**
- Maildir format in home directory

<Ok> <Cancel>
Keep big configuration files

Mail Server configuration

Split configuration into small files?

<Yes>  <No>
Done with configuration

File Edit View Search Terminal Help

Processing triggers for man-db ...
Processing triggers for ureadahead ...
Setting up exim4-config (4.71-3ubuntu1.3) ...
Adding system-user for exim (v4)

Setting up exim4-base (4.71-3ubuntu1.3) ...

Setting up exim4-daemon-light (4.71-3ubuntu1.3) ...
  * Starting MTA [ OK ]

Setting up exim4 (4.71-3ubuntu1.3) ...

Setting up bsd-mailx (8.1.2-0.20090911cvs-2ubuntu1) ...
update-alternatives: using /usr/bin/bsd-mailx to provide /usr/bin/mailx (mailx) in auto mode.

Setting up ssl-cert (1.0.23ubuntu2) ...

root@mail:/# dpkg-reconfigure exim4-config
  * Stopping MTA for restart [ OK ]
  * Restarting MTA [ OK ]
root@mail:/#
Configure MX record in DNS

```
@      IN  NS  ns1.dsctux.net.
@      IN  NS  ns2.dsctux.net.
; glue records to delegate games.dsctux.net to my partner
games  IN  NS  ns1.games.dsctux.net.
games  IN  NS  ns2.games.dsctux.net.

; A (Address) records
@      IN  MX  10  mail
ns1    IN  A   144.38.214.2
ns2    IN  A   144.38.214.3
mail   IN  A   144.38.214.4
www    IN  A   144.38.214.5
dhcp   IN  A   144.38.214.6

; name servers for delegation of games.dsctux.net to my partner
ns1.games IN  A   144.38.218.66
ns2.games IN  A   144.38.218.67
```
Log file location

Setting up exim4-config (4.71-3ubuntu1.3) ...
Adding system-user for exim (v4)

Setting up exim4-base (4.71-3ubuntu1.3) ...

Setting up exim4-daemon-light (4.71-3ubuntu1.3) ...
* Starting MTA [ OK ]

Setting up exim4 (4.71-3ubuntu1.3) ...

Setting up bsd-mailx (8.1.2-0.20090911cvs-2ubuntu1) ...
update-alternatives: using /usr/bin/bsd-mailx to provide /usr/bin/mailx (mailx) in auto mode.

Setting up ssl-cert (1.0.23ubuntu2) ...

root@mail:/# dpkg-reconfigure exim4-config
* Stopping MTA for restart
* Restarting MTA [ OK ]

root@mail:/# ls /var/log/exim4/
mainlog
root@mail:/#
Send simple message

root@mail:/# dpkg-reconfigure exim4-config
  * Stopping MTA for restart
  * Restarting MTA
root@mail:/# ls /var/log/exim4/
  mainlog
root@mail:/# cat /var/log/exim4/mainlog
  2011-10-17 08:16:48 exim 4.71 daemon started: pid=5913, -q30m, listening for SMT
P on [127.0.0.1]:25 [::1]:25
  2011-10-17 08:16:48 Start queue run: pid=5915
  2011-10-17 08:16:48 End queue run: pid=5915
  2011-10-17 08:45:01 exim 4.71 daemon started: pid=6638, -q30m, listening for SMT
P on [127.0.0.1]:25 [::1]:25 [144.38.214.4]:25
  2011-10-17 08:45:01 Start queue run: pid=6640
  2011-10-17 08:45:01 End queue run: pid=6640
root@mail:/# exit
cgl@mail:/$ mailx cgl@cs.dixie.edu
Subject: First message from mail.dsctux.net
hello world
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Cc:
cgl@mail:/$