cgl2011@charon$ ssh cgl@mail.dsctux.net

cgl@mail.dsctux.net's password:
Welcome to Ubuntu 12.04.1 LTS (GNU/Linux 3.2.0-30-generic x86_64)

* Documentation:  https://help.ubuntu.com/
Last login: Tue Oct  9 14:24:04 2012 from brockhall.cs.dixie.edu
cgl@mail:~$
cgl@mail:~$ sudo apt-get install exim4
[sudo] password for cgl:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  bind9utils
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  exim4-base exim4-config exim4-daemon-light heirloom-mailx
Suggested packages:
  exim4-exim4-doc-html exim4-exim4-doc-info spf-tools-perl swaks
Recommended packages:
  mailx
The following NEW packages will be installed:
  exim4 exim4-base exim4-config exim4-daemon-light heirloom-mailx
0 upgraded, 5 newly installed, 0 to remove and 13 not upgraded.
Need to get 1,923 kB of archives.
cgl@mail:~$ sudo dpkg-reconfigure exim4-config
Please select the mail server configuration type that best meets your needs.

Systems with dynamic IP addresses, including dialup systems, should generally be configured to send outgoing mail to another machine, called a 'smtphost' for delivery because many receiving systems on the Internet block incoming mail from dynamic IP addresses as spam protection.
Mail Server configuration

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
The 'mail name' is the domain name used to 'qualify' mail addresses without a domain name.

This name will also be used by other programs. It should be the single, fully qualified domain name (FQDN).

Thus, if a mail address on the local host is foo@example.org, the correct value for this option would be example.org.
Mail Server configuration

System mail name:

mail.dsctux.net

<Ok>          <Cancel>
Please enter a semicolon-separated list of IP addresses. The Exim SMTP listener daemon will listen on all IP addresses listed here.

An empty value will cause Exim to listen for connections on all available network interfaces.

If this system only receives mail directly from local services (and not from other hosts), it is suggested to prohibit external
Mail Server configuration

IP-addresses to listen on for incoming SMTP connections:

127.0.0.1 ; ::1; 144.38.218.100

<Ok> <Cancel>
Mail Server configuration

Please enter a semicolon-separated list of recipient domains for which this machine should consider itself the final destination. These domains are commonly called 'local domains'. The local hostname (mail.dsctux.net) and 'localhost' are always added to the list given here.

By default all local domains will be treated identically. If both a.example and b.example are local domains, acc@a.example and acc@b.example will be delivered to the same final
Mail Server configuration

Other destinations for which mail is accepted:

mail.dsctux.net; dsctux.net

<Ok>  <Cancel>
Mail Server configuration

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.
Mail Server configuration

Machines to relay mail for:

<OK>       <Cancel>
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
Mail Server configuration

IP address or host name of the outgoing smarthost:

stumail.cs.dixie.edu

<Ok>  <Cancel>
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>
In normal mode of operation Exim does DNS lookups at startup, and when receiving or delivering messages. This is for logging purposes and allows keeping down the number of hard-coded values in the configuration.

If this system does not have a DNS full service resolver available at all times (for example if its Internet access is a dial-up line using dial-on-demand), this might have unwanted consequences. For example, starting up Exim or running the queue
Mail Server configuration

Keep number of DNS-queries minimal (Dial-on-Demand)?

<Yes>  <No>
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.
Mail Server configuration

Delivery method for local mail:

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

<Ok>  <Cancel>
Mail Server configuration

Delivery method for local mail:

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

<Ok> <Cancel>
Split configuration into small files?

<Yes>  <No>
cgl@mail:~$ sudo dpkg-reconfigure exim4-config
  * Stopping MTA for restart
  * Restarting MTA

cgl@mail:~$
cgl@mail:~$ echo "SENDING A TEST EMAIL"
SENDING A TEST EMAIL
cgl@mail:~$ mailx fred@mail.horgoth.com
Subject: Bedrock
How's things in Bedrock?

Curtis
.
EOT

cgl@mail:~$
You have mail in /var/mail/fred
fred@mail:~$ echo "THIS IS FRED ON mail.horgoth.com"
THIS IS FRED ON mail.horgoth.com
fred@mail:~$ mailx
Mail version 8.1.2 01/15/2001. Type ? for help.
"/var/mail/fred": 1 message 1 new
N  1 cgl@mail.dsctux.n Tue Oct 16 15:30  37/1345  Bedrock
&
fred@mail:~$ mailx
Mail version 8.1.2 01/15/2001. Type ? for help.
"/var/mail/fred": 1 message 1 new
> N 1 cgl@mail.dsctux.n Tue Oct 16 15:30   37/1345  Bedrock
& 1
fred@mail:~$ mailx
Mail version 8.1.2 01/15/2001. Type ? for help.
"/var/mail/fred": 1 message 1 new
> N 1 cgl@mail.dsctux.n Tue Oct 16 15:30 37/1345 Bedrock
& 1
& d1
& h
No applicable messages
& q
fred@mail:~$
cgl@mail:~$ echo "SENDING A TEST EMAIL"
SENDING A TEST EMAIL
cgl@mail:~$ mailx fred@mail.horgoth.com
Subject: Bedrock
How's things in Bedrock?

Curtis
.
EOT
cgl@mail:~$ mailx fred@mail.horgoth.com
Subject: Reply please
Are you coming to dinner?
.
EOT
cgl@mail:~$
fred@mail:~$ mailx
Mail version 8.1.2 01/15/2001. Type ? for help.
"/var/mail/fred": 1 message 1 new
>N  1 cgl@mail.dsctux.n Tue Oct 16 15:36 35/1343 Reply please
Yabba, Dabba, Doo, Yes!

Cc:
cgl@mail:~$ mailx
No mail for cgl

cgl@mail:~$
fred@mail:$ mailx cgl@mail.dsctux.net
Subject: test from fred
hello
.
Cc:
fred@mail:$ 1
cgl@mail:~$ mailx
No mail for cgl

cgl@mail:~$ mailx
No mail for cgl

cgl@mail:~$
root@mail:~# cd /var/log/exim4/
root@mail:/var/log/exim4# echo "HORGOTH MTA, DEBUGGING"
HORGOTH MTA, DEBUGGING
root@mail:/var/log/exim4#
root@mail:/var/log/exim4# echo "HORGOTH MTA, DEBUGGING"
HORGOTH MTA, DEBUGGING
root@mail:/var/log/exim4# ls -lt
total 92
-rw-r-- - 1 Debian-exim adm  5407 2012-10-16 15:38 mainlog
-rw-r-- - 1 Debian-exim adm  4416 2012-05-13 06:11 mainlog.1
-rw-r-- - 1 Debian-exim adm  471 2012-05-12 06:11 mainlog.2.gz
-rw-r-- - 1 Debian-exim adm   0 2012-05-11 06:25 rejectlog
-rw-r-- - 1 Debian-exim adm  703 2012-05-11 06:11 mainlog.3.gz
-rw-r-- - 1 Debian-exim adm 1969 2012-05-10 13:44 rejectlog.1
-rw-r-- - 1 Debian-exim adm  666 2012-05-10 06:11 mainlog.4.gz
-rw-r-- - 1 Debian-exim adm  162 2012-05-09 22:08 rejectlog.2.gz
-rw-r-- - 1 Debian-exim adm  472 2012-05-09 06:11 mainlog.5.gz
-rw-r-- - 1 Debian-exim adm  467 2012-05-08 06:11 mainlog.6.gz
-rw-r-- - 1 Debian-exim adm  674 2012-05-07 06:11 mainlog.7.gz
-rw-r-- - 1 Debian-exim adm  158 2012-05-06 21:21 rejectlog.3.gz
-rw-r-- - 1 Debian-exim adm  462 2012-05-06 06:11 mainlog.8.gz
-rw-r-- - 1 Debian-exim adm  462 2012-05-05 06:11 mainlog.9.gz
-rw-r-- - 1 Debian-exim adm  476 2012-05-04 06:11 mainlog.10.gz
-rw-r---- 1 Debian-exim adm  703 2012-05-11 06:11 mainlog.3.gz
-rw-r----- 1 Debian-exim adm 1969 2012-05-10 13:44 rejectlog.1
-rw-r----- 1 Debian-exim adm  666 2012-05-10 06:11 mainlog.4.gz
-rw-r----- 1 Debian-exim adm  162 2012-05-09 22:08 rejectlog.2.gz
-rw-r----- 1 Debian-exim adm  472 2012-05-09 06:11 mainlog.5.gz
-rw-r----- 1 Debian-exim adm  467 2012-05-08 06:11 mainlog.6.gz
-rw-r----- 1 Debian-exim adm  674 2012-05-07 06:11 mainlog.7.gz
-rw-r----- 1 Debian-exim adm  158 2012-05-06 21:21 rejectlog.3.gz
-rw-r----- 1 Debian-exim adm  462 2012-05-06 06:11 mainlog.8.gz
-rw-r----- 1 Debian-exim adm  462 2012-05-05 06:11 mainlog.9.gz
-rw-r----- 1 Debian-exim adm  476 2012-05-04 06:11 mainlog.10.gz
-rw-r----- 1 Debian-exim adm  359 2012-04-25 20:00 rejectlog.4.gz
-rw-r----- 1 Debian-exim adm  154 2012-03-26 00:08 rejectlog.5.gz
-rw-r----- 1 Debian-exim adm  163 2012-03-19 04:08 rejectlog.6.gz
-rw-r----- 1 Debian-exim adm  301 2012-03-13 05:48 rejectlog.7.gz
-rw-r----- 1 Debian-exim adm  236 2012-03-08 08:07 rejectlog.8.gz
-rw-r----- 1 Debian-exim adm  389 2012-02-24 02:12 rejectlog.9.gz
-rw-r----- 1 Debian-exim adm  153 2012-02-21 06:24 rejectlog.10.gz

root@mail:/var/log/exim4# less mainlog
cgl@mail:~$ sudo bash
[sudo] password for cgl:
root@mail:~# echo "DSCTUX MTA now for debugging"
DSCTUX MTA now for debugging
root@mail:~# cd /var/log/exim4/
root@mail:/var/log/exim4#
cgl@mail:~$ sudo bash
[sudo] password for cgl:
root@mail:~# echo "DSCTUX MTA now for debugging"
DSCTUX MTA now for debugging
root@mail:~# cd /var/log/exim4/
root@mail:/var/log/exim4# ls -lt
total 8
-rw-r----- 1 Debian-exim adm 2295 Oct 16 15:36 mainlog
-rw-r----- 1 Debian-exim adm 130 Oct 16 15:31 paniclog
root@mail:/var/log/exim4# less mainlog
2012-10-16 15:30:06 socket bind() to port 25 for address 144.38.218.100 failed: Cannot assign requested address: waiting 30s before trying again (2 more tries)

2012-10-16 15:30:36 socket bind() to port 25 for address 144.38.218.100 failed: Cannot assign requested address: waiting 30s before trying again (1 more try)

2012-10-16 15:30:51 1TOEix-0002LU-5g <= cgl@mail.dsctux.net U=cgl P=local S=509

2012-10-16 15:30:51 1TOEix-0002LU-5g => fred@mail.horgoth.com R=smarthost T=remote_smtp_smarthost H=stumail.cs.dixie.edu [144.38.192.11]

2012-10-16 15:30:51 1TOEix-0002LU-5g Completed

2012-10-16 15:31:06 socket bind() to port 25 for address 144.38.218.100 failed: Cannot assign requested address: daemon abandoned

2012-10-16 15:36:33 1TOEoT-0002La-2h <= cgl@mail.dsctux.net U=cgl P=local S=507

2012-10-16 15:36:33 1TOEoT-0002La-2h => fred@mail.horgoth.com R=smarthost T=remote_smtp_smarthost H=stumail.cs.dixie.edu [144.38.192.11]

2012-10-16 15:36:33 1TOEoT-0002La-2h Completed

(END)
```
-rw-r----- 1 Debian-exim adm 2295 Oct 16 15:36 mainlog
-rw-r----- 1 Debian-exim adm 130 Oct 16 15:31 paniclog
root@mail:/var/log/exim4# less mainlog
root@mail:/var/log/exim4# ifconfig
eth0      Link encap:Ethernet  HWaddr 52:54:00:08:01:8f
          inet addr:144.38.217.100  Bcast:144.38.217.127  Mask:255.255.255.224
          inet6 addr: fe80::5054:ff:fe08:18f/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:36240 errors:0 dropped:0 overruns:0 frame:0
          TX packets:17301 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0  txqueuelen:1000
          RX bytes:4194015 (4.1 MB)  TX bytes:1769163 (1.7 MB)
          Interrupt:10  Base address:0x2000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
```
root@mail:/var/log/exim4# dpkg-reconfigure exim4-config
Mail Server configuration

IP-addresses to listen on for incoming SMTP connections:

127.0.0.1 ; ::1; 144.38.217.100

<Ok> <Cancel>
root@mail:/var/log/exim4# dpkg-reconfigure exim4-config
  * Stopping MTA for restart [ OK ]
  * Restarting MTA   [ OK ]
Alert: exim paniclog /var/log/exim4/paniclog has non-zero size, mail system possibly broken
root@mail:/var/log/exim4#
root@mail:/var/log/exim4# dpkg-reconfigure exim4-config
  * Stopping MTA for restart
  * Restarting MTA
[ OK ]

ALERT: exim paniclog /var/log/exim4/paniclog has non-zero size, mail system possibly broken
root@mail:/var/log/exim4# ls -l /var/log/exim4/paniclog
-rw-r----- 1 Debian-exim adm 130 Oct 16 15:31 /var/log/exim4/paniclog
root@mail:/var/log/exim4# date
Tue Oct 16 15:47:24 MDT 2012
root@mail:/var/log/exim4# rm /var/log/exim4/paniclog
root@mail:/var/log/exim4# /etc/init.d/exim4 restart
  * Stopping MTA for restart
  * Restarting MTA
[ OK ]
[ OK ]

root@mail:/var/log/exim4#