Configure exim to send from remote clients, if authenticated
cgl@mail:/$ sudo apt-get install exim4-daemon-heavy
cgl@mail:/$ echo "Generate certificate"
Generate certificate
cgl@mail:/$
cgl@mail:/$ sudo /usr/share/doc/exim4-base/examples/exim-gencert
[*] Creating a self signed SSL certificate for Exim!
This may be sufficient to establish encrypted connections but for secure identification you need to buy a real certificate!

Please enter the hostname of your MTA at the Common Name (CN) prompt:

Generating a 2048 bit RSA private key
........................................+++ ........................................+++
writing new private key to '/etc/exim4/exim.key'

You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN. There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

Country Code (2 letters) [US]:
cgl@mail:/ $ sudo /usr/share/doc/exim4-base/examples/exim-gencert
[*] Creating a self signed SSL certificate for Exim!
   This may be sufficient to establish encrypted connections but for
   secure identification you need to buy a real certificate!

   Please enter the hostname of your MTA at the Common Name (CN) prompt!

Generating a 2048 bit RSA private key
..........................................+++..........................................+++
writing new private key to '/etc/exim4/exim.key'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Code (2 letters) [US]:
State or Province Name (full name) []:UT
Locality Name (eg, city) []:St. George
Organization Name (eg, company; recommended) []:DSUTUX
Organizational Unit Name (eg, section) []:Widgets
Generating a 2048 bit RSA private key

writing new private key to '/etc/exim4/exim.key'

You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

Country Code (2 letters) [US]:
State or Province Name (full name) []:UT
Locality Name (eg, city) []:St. George
Organization Name (eg, company; recommended) []:DSUTUX
Organizational Unit Name (eg, section) []:Widgets
Server name (eg. ssl.domain.tld; required!!!) []:mail.dsutux.us
Email Address []:cgl@mail.dsutux.us

[*] Done generating self signed certificates for exim!
Refer to the documentation and example configuration files
over at /usr/share/doc/exim4-base/ for an idea on how to enable TLS support in your mail transfer agent.

cgl@mail:/$
cgl@mail:/$ ls -l /etc/exim4/
total 96
-rw-r--r-- 1 root root 4096 Sep 17 05:34 conf.d
-rw-r--r-- 1 root root 77130 Feb 25 2014 exim4.conf.template
-rw-r--r-- 1 root Debian-exim 1310 Sep 24 07:37 exim.crt
-rw-r--r-- 1 root Debian-exim 1704 Sep 24 07:37 exim.key
-rw-r--r-- 1 root Debian-exim 204 Feb 25 2014 passwd.client
-rw-r--r-- 1 root root 1094 Sep 17 05:41 update-exim4.conf.conf

cgl@mail/$
cgl@mail:/$ echo "Install secure authentication service"
Install secure authentication service
cgl@mail:/$
cgl@mail:/$ sudo apt-get install sasl2-bin
cgl@mail:/$ sudo emacs /etc/default/saslauthd
# Settings for saslauthd daemon
# Please read /usr/share/doc/sasl2-bin/README.Debian for details.
#
# Should saslauthd run automatically on startup? (default: no)
START=yes

# Description of this saslauthd instance. Recommended.
# (suggestion: SASL Authentication Daemon)
DESC="SASL Authentication Daemon"

# Short name of this saslauthd instance. Strongly recommended.
# (suggestion: saslauthd)
NAME="saslauthd"

# Which authentication mechanisms should saslauthd use? (default: pam)
#
# Available options in this Debian package:
# getpwent -- use the getpwent() library function
# kerberos5 -- use Kerberos 5

Wrote /etc/default/saslauthd
cgl@mail:/$ sudo service saslauthd restart
  * Stopping SASL Authentication Daemon saslauthd [ OK ]
  * Starting SASL Authentication Daemon saslauthd [ OK ]
cgl@mail:/$
cgl@mail:/$ echo "Now, some detailed edits. Pay close attention."
Now, some detailed edits. Pay close attention.
cgl@mail:/$
cgl@mail:/$ sudo emacs /etc/exim4/exim4.conf.template
### main/02_exim4-config_options

---------------------------------------------------------------------------------
---------------------------------------------------------------------------------
### main/03_exim4-config_tlsoptions
---------------------------------------------------------------------------------

### main/03_exim4-config_tlsoptions
---------------------------------------------------------------------------------

# ADDED TO ENABLE TLS AUTHENTICATION
MAIN_TLS_ENABLE = yes

# ADDED TO ENABLE TLS AUTHENTICATION

# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.

.ifdef MAIN_TLS_ENABLE
# Defines what hosts to 'advertise' STARTTLS functionality to. The
# default, *, will advertise to all hosts that connect with EHLO.
.ifdef MAIN_TLS_ADVERTISE_HOSTS
MAIN_TLS_ADVERTISE_HOSTS = *
.else
MAIN_TLS_ADVERTISE_HOSTS =
.endif
### end main/02_exim4-config_options

# ADDED TO ENABLE TLS AUTHENTICATION
MAIN_TLS_ENABLE = yes

# ADDED TO ENABLE TLS AUTHENTICATION
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
daemon_smtp_ports = 25 : 465 : 587

tsl_on_connect_ports = 465

# ADDED TO ENABLE STANDARD TLS SMTP PORTS

# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.

ifdef MAIN_TLS_ENABLE

UU-:%--F1 exim4.conf.template 16% L325 (Conf[Unix])-------------------------

Read-Only mode enabled
### main/03_exim4-config_tlsoptions

# ADDED TO ENABLE TLS AUTHENTICATION
MAIN_TLS_ENABLE = yes
# ADDED TO ENABLE TLS AUTHENTICATION
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
daemon_smtp_ports = 25 : 465 : 587
tsl_on_connect_ports = 465
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
# ADDED TO FORCE ENCRYPTION BEFORE ALLOWING AUTHENTICATION
auth_advertise_hosts = ${if eq${$tls_cipher}{}{}{}}
# ADDED TO FORCE ENCRYPTION BEFORE ALLOWING AUTHENTICATION

# TLS/SSL configuration for exim as an SMTP server.
# See /usr/share/doc/exim4-base/README.Debian.gz for explanations.

ifndef MAIN_TLS_ENABLE

 Read-Only mode enabled

endif

---
# Authenticate against local passwords using sasl2-bin
# Requires exim_uid to be a member of sasl group, see README.Debian.gz
# UNCommented THIS SECTION TO ALLOW LOGIN
plain_saslauthd_server:
  driver = plaintext
  public_name = PLAIN
  server_condition = @{$if saslauthd{'$auth2' '$auth3'}[1][0]}
  server_set_id = $auth2
  server_prompts = :
  .ifndef AUTH_SERVER_ALLOW_NOTLS PASSWORDS
  server_advertise_condition = @{$if eq{$tls_in_cipher}[][][*]}
  .endif

login_saslauthd_server:
  # driver = plaintext
  # public_name = LOGIN
  # server_prompts = "Username:: : Password::"
  # don't send system passwords over unencrypted connections
  # server_condition = @{$if saslauthd{'$auth1' '$auth2'}[1][0]}
  # server_set_id = $auth1
  # .ifndef AUTH_SERVER_ALLOW_NOTLS PASSWORDS

-UU-:%--F1  exim4.conf.template  92%  L1893  (Conf[Unix])  ------------------------
Read-Only mode enabled
Allow exim to use the SASL service
cgl@mail:/$ sudo adduser Debian-exim sasl
Adding user `Debian-exim' to group `sasl' ...
Adding user Debian-exim to group sasl
Done.
cgl@mail:/$
Apply the template changes to actual configuration files
cgl@mail:/$ sudo update-exim4.conf
2014-09-24 07:45:20 Exim configuration error in line 180 of /var/lib/exim4/config.autogenerated.tmp:
  main option "tsl_on_connect_ports" unknown
Invalid new configfile /var/lib/exim4/config.autogenerated.tmp, not installing /var/lib/exim4/config.autogenerated.tmp to /var/lib/exim4/config.autogenerated
cgl@mail:/$
cgl@mail:/$ sudo update-exim4.conf
2014-09-24 07:45:20 Exim configuration error in line 180 of /var/lib/exim4/confi
g.autogenerated.tmp:
   main option "tsl_on_connect_ports" unknown
Invalid new configfile /var/lib/exim4/config.autogenerated.tmp, not installing
/var/lib/exim4/config.autogenerated.tmp to /var/lib/exim4/config.autogenerated
cgl@mail:/$
cgl@mail:/$
cgl@mail:/$
cgl@mail:/$
cgl@mail:/$ echo "Typo!"
Typo!
cgl@mail:/$
cgl@mail:/$ sudo emacs /etc/exim4/exim4.conf.template
### main/03_exim4-config_tlsoptions

# ADDED TO ENABLE TLS AUTHENTICATION
MAIN_TLS_ENABLE = yes
# ADDED TO ENABLE TLS AUTHENTICATION
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
daemon_smtp_ports = 25 : 465 : 587
tls_on_connect_ports = 465
# ADDED TO ENABLE STANDARD TLS SMTP PORTS
# ADDED TO FORCE ENCRYPTION BEFORE ALLOWING AUTHENTICATION
auth_advertise_hosts = ${if eq${tls_cipher}{}{}{*}}
# ADDED TO FORCE ENCRYPTION BEFORE ALLOWING AUTHENTICATION

TLS/SSL configuration for exim as an SMTP server.
See /usr/share/doc/exim4-base/README.Debian.gz for explanations.

ifdef MAIN_TLS_ENABLE
# Defines what hosts to 'advertise' STARTTLS functionality to. The

cgl@mail:/$ sudo update-exim4.conf
cgl@mail:/$ ...
cgl@mail:/$ echo "Restart MTA to use these settings."
Restart MTA to use these settings.
cgl@mail:/$
cgl@mail:/$ echo "Check open ports"
Check open ports
cgl@mail:/$
<table>
<thead>
<tr>
<th>Proto</th>
<th>Recv-Q</th>
<th>Send-Q</th>
<th>Local Address</th>
<th>Foreign Address</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>0.0.0.0:22</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>144.38.214.132:25</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>127.0.0.1:25</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>0.0.0.0:993</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp6</td>
<td>0</td>
<td>0</td>
<td>:::22</td>
<td>:::*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp6</td>
<td>0</td>
<td>0</td>
<td>:::1:25</td>
<td>:::*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp6</td>
<td>0</td>
<td>0</td>
<td>:::993</td>
<td>:::*</td>
<td>LISTEN</td>
</tr>
</tbody>
</table>

cgl@mail:/$
cgl@mail:/$
cgl@mail:/$ echo "Not there."
Not there.
cgl@mail:/$
cgl@mail:/$ sudo service exim4 restart
* Stopping MTA for restart [ OK ]
* Restarting MTA [ OK ]
ALERT: exim paniclog /var/log/exim4/paniclog has non-zero size, mail system possibly broken

cgl@mail:/$
cgl@mail:/$ sudo service exim4 restart

* Stopping MTA for restart [ OK ]
* Restarting MTA [ OK ]

ALERT: exim paniclog /var/log/exim4/paniclog has non-zero size, mail system possibly broken

cgl@mail:/$
cgl@mail:/$ cat /var/log/exim4/paniclog
2014-09-24 07:45:20 Exim configuration error in line 180 of /var/lib/exim4/confi

   main option "tsl_on_connect_ports" unknown

cgl@mail:/$
cgl@mail:/$ sudo service exim4 restart
 * Stopping MTA for restart [ OK ]
 * Restarting MTA [ OK ]

ALERT: exim paniclog /var/log/exim4/paniclog has non-zero size, mail system possibly broken

cgl@mail:/$
cgl@mail:/$
cgl@mail:/$ cat /var/log/exim4/paniclog
2014-09-24 07:45:20 Exim configuration error in line 180 of /var/lib/exim4/config.autogenerated.tmp:
   main option "tsl_on_connect_ports" unknown

cgl@mail:/$
cgl@mail:/$ sudo rm /var/log/exim4/paniclog
cgl@mail:/$
<table>
<thead>
<tr>
<th>Proto</th>
<th>Recv-Q</th>
<th>Send-Q</th>
<th>Local Address</th>
<th>Foreign Address</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>144.38.214.132:587</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>127.0.0.1:587</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>144.38.214.132:465</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp</td>
<td>0</td>
<td>0</td>
<td>127.0.0.1:465</td>
<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
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<td>tcp</td>
<td>0</td>
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<td>0</td>
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<td>0.0.0.0:*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp6</td>
<td>0</td>
<td>0</td>
<td>::1:587</td>
<td>:::*</td>
<td>LISTEN</td>
</tr>
<tr>
<td>tcp6</td>
<td>0</td>
<td>0</td>
<td>::1:465</td>
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<td>0</td>
<td>0</td>
<td>::993</td>
<td>:::*</td>
<td>LISTEN</td>
</tr>
</tbody>
</table>
cgl@mail:/$ echo "Just forgot to restart."
Just forgot to restart.
cgl@mail:/$