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ASSP With Embedded ClamAV Integrated Into Postfix With Virtual Users And Domains

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This document describes how to integrate ASSP (Anti-Spam SMTP Proxy) with embedded ClamAV into a mail server based on Postfix featuring virtual users and domains, i.e. users and domains that are in a MySQL database. It rests upon parts of the howto **Users And Domains With Postfix, Courier And MySQL (Debian Etch)** from Falko Timme.

The resulting Postfix server is functionally almost identic with the one from the howto above mentioned, but doesn't need Amavisd. ASSP provides a comfortable, considerable web-interface for setup/configuration.

This howto is meant as a practical guide; it does not cover the theoretical backgrounds. They are treated in a lot of other documents in the web.

This document comes without warranty of any kind! I want to say that this is not the only way of setting up such a system. There are many ways of achieving this goal but this is the way I take. I do not issue any guarantee that this will work for you!

1 Preparation

Please follow the howto **Users And Domains With Postfix, Courier And MySQL (Debian Etch)** from Falko Timme from step 1 - 8 + 13 before you proceed.

2 Needed Packages

First we have to install a few packages needed by ASSP:

```
apt-get install libcompress-zlib-perl libdigest-md5-perl libemail-valid-perl
libfile-readbackwards-perl libmail-spf-query-perl libmail-srs-perl libnet-dns-perl
libsys-syslog-perl libnet-ldap-perl libtime-hires-perl unzip
```

3 Get ASSP

Download and unzip ASSP:

```
cd /usr/src/

wget http://mesh.dl.sourceforge.net/sourceforge/assp/ASSP_1.3.3.1-Install.zip

unzip ASSP_1.3.3.1-Install.zip
```

4 Install ASSP

Prepare some directorys:

```
mkdir -p /usr/share/assp/spam

mkdir /usr/share/assp/notspam

mkdir /usr/share/assp/errors

mkdir /usr/share/assp/errors/spam

mkdir /usr/share/assp/errors/notspam
```

Copy ASSP to the right destination:

```
cd /usr/src/ASSP_1.3.3.1-Install/

cp -R ASSP/* /usr/share/assp/
```

5 Create Script

To the considerable use of ASSP we create the following script (thanks to Ivo Schaap) and the runlevel-entries for autostart:

```
vi /etc/init.d/assp
```

```
#!/bin/sh -e
# Start or stop ASSP
#
# Ivo Schaap <ivo@lineau.nl>

PATH=/bin:/usr/bin:/sbin:/usr/sbin

case "$1" in

   start)
      echo -n "Starting the Anti-Spam SMTP Proxy"
      cd /usr/share/assp
```

```
    perl assp.pl
  ;;

  stop)
    echo -n "Stopping the Anti-Spam SMTP Proxy"
    kill -9 `ps ax | grep "perl assp.pl" | grep -v grep | awk '{ print $1 }'`
  ;;

  restart)
    $0 stop || true
    $0 start
  ;;

  *)
  echo "Usage: /etc/init.d/assp {start|stop|restart}"
  exit 1
  ;;

esac

exit 0
```

Change the permission:

```
chmod 755 /etc/init.d/assp
```

Create the runlevel-entries:

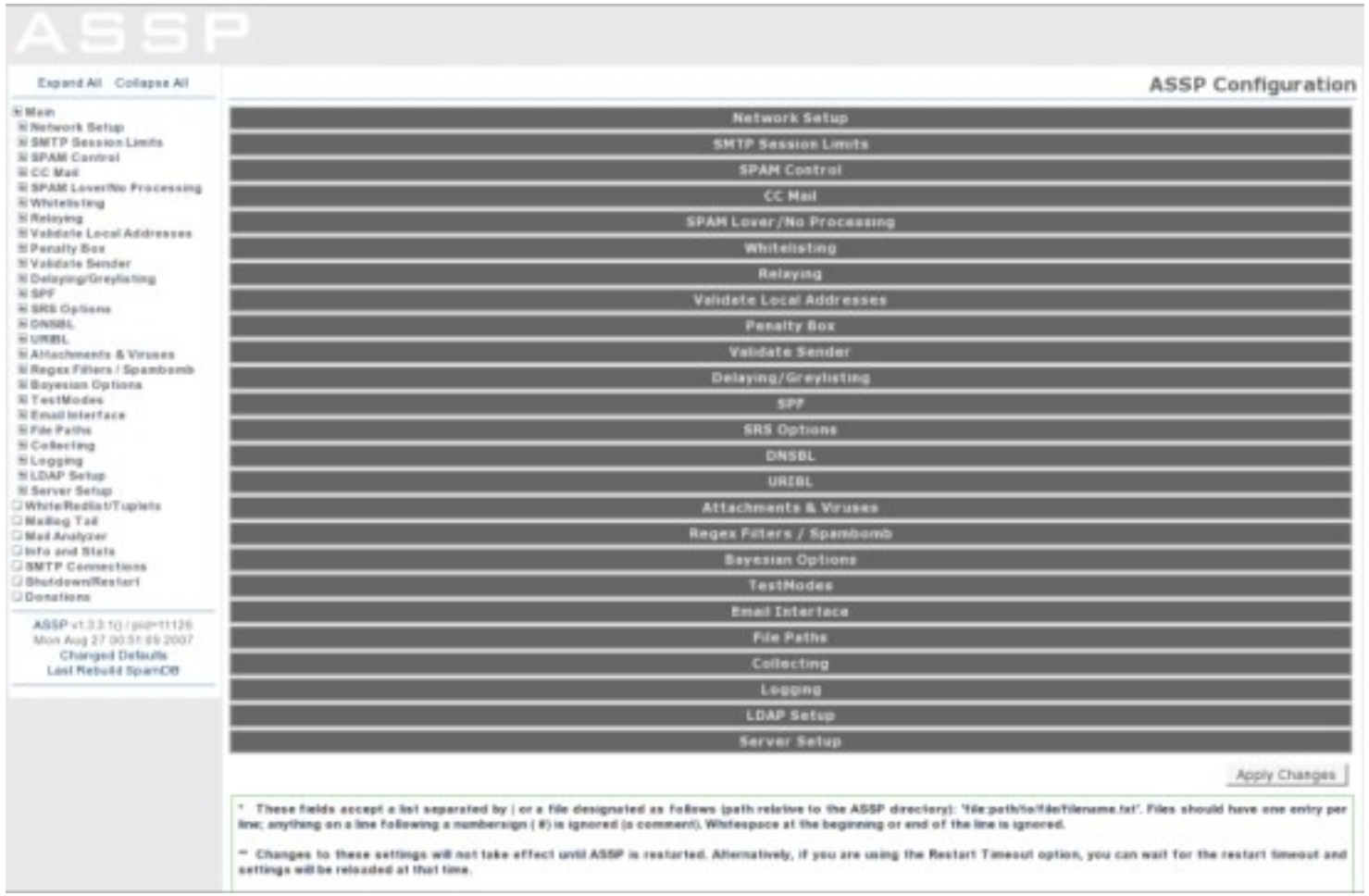
```
update-rc.d assp defaults
```

Start ASSP for the first time:

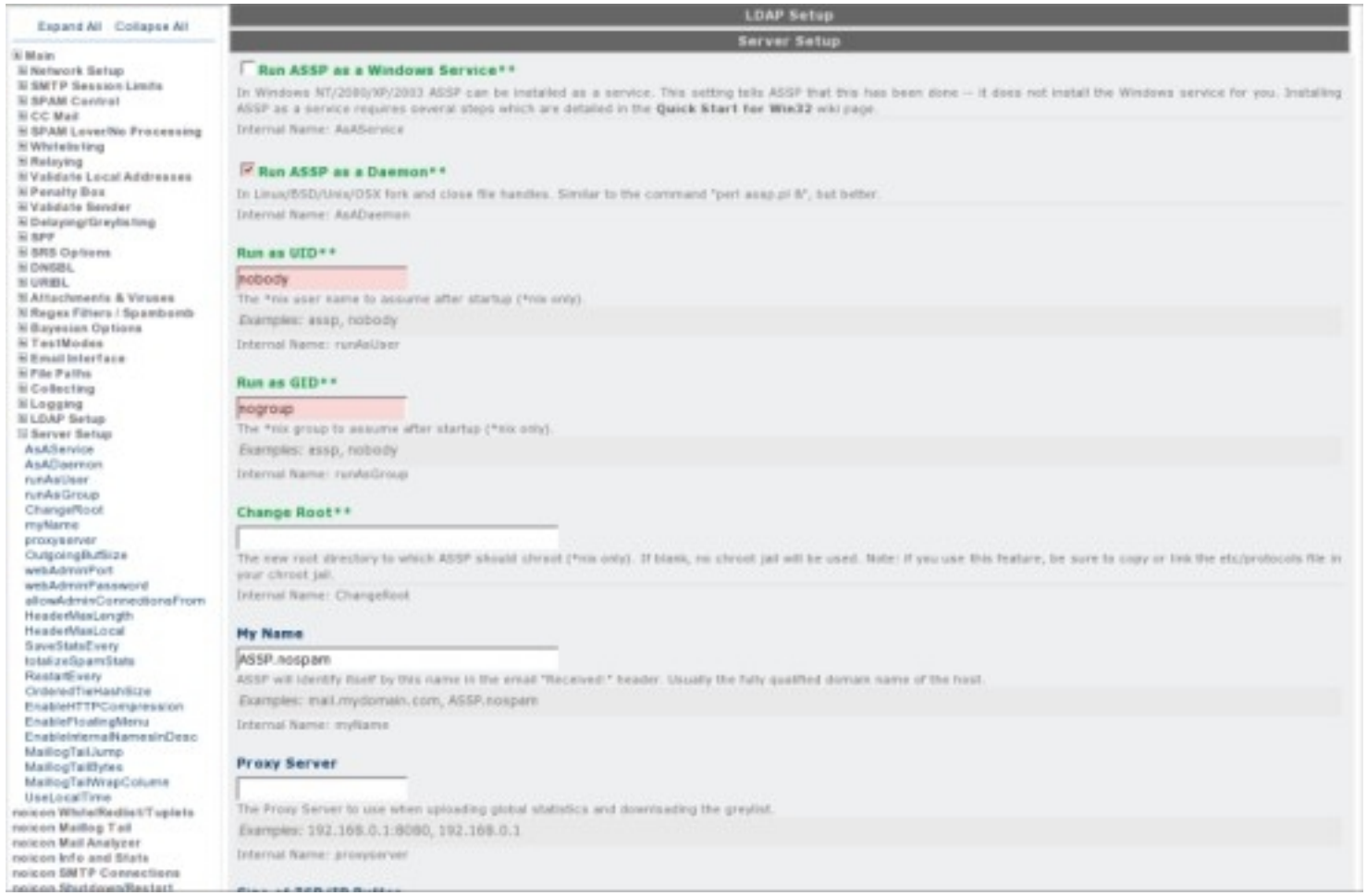
```
/etc/init.d/assp start
```

6 ASSP Basic Configuration

Now it's time for the initial configuration. Open *http://%host%:55555* in your preffered browser. Log in with any name and the password *nospam4me*.



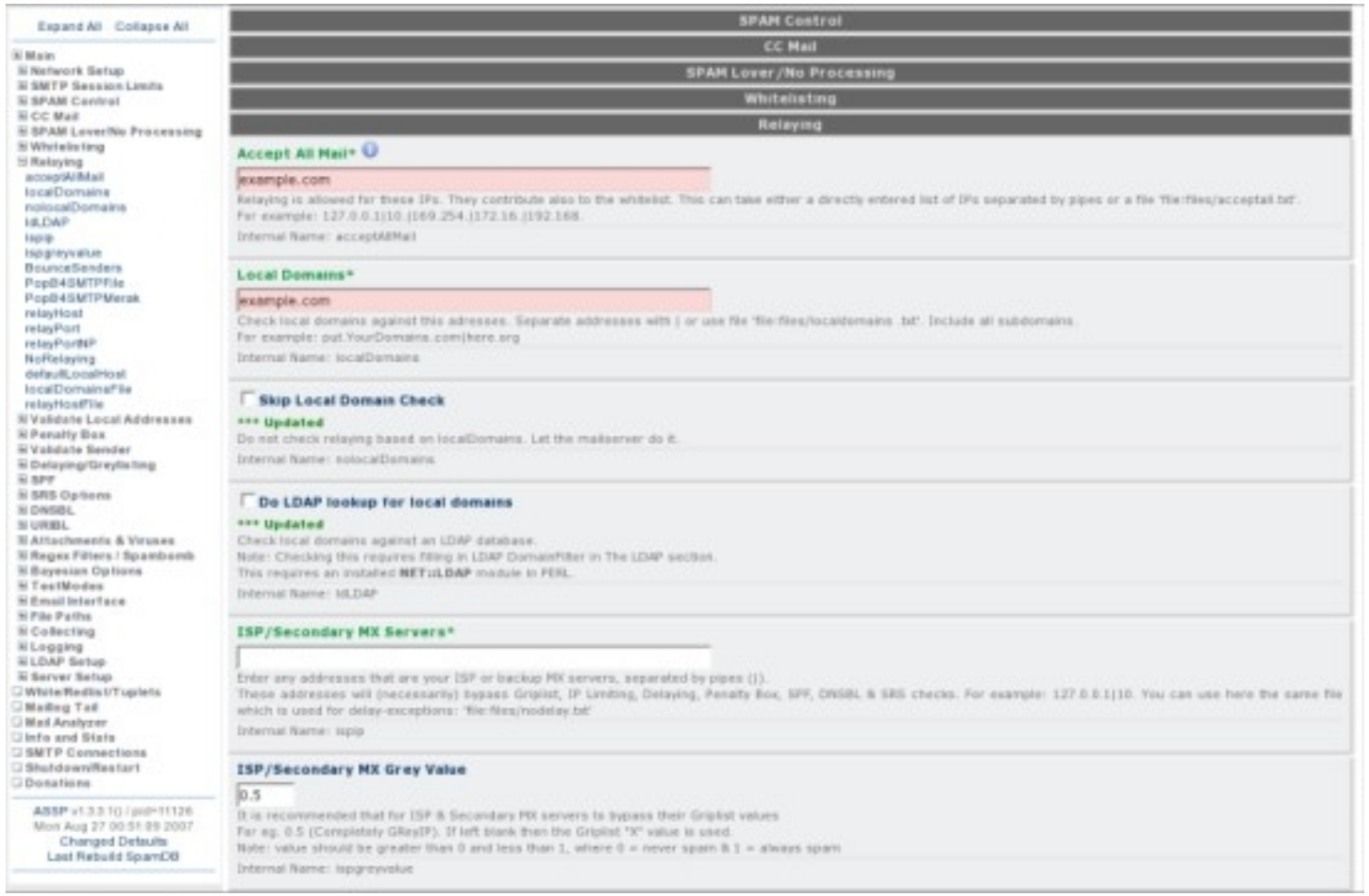
Now open the tab *Server Setup*. Mark the checkbox *Run ASSP as a daemon* and next enter *nobody* for UID and *nogroup* for GID. Next apply the changes with the corresponding button at the bottom on the right.



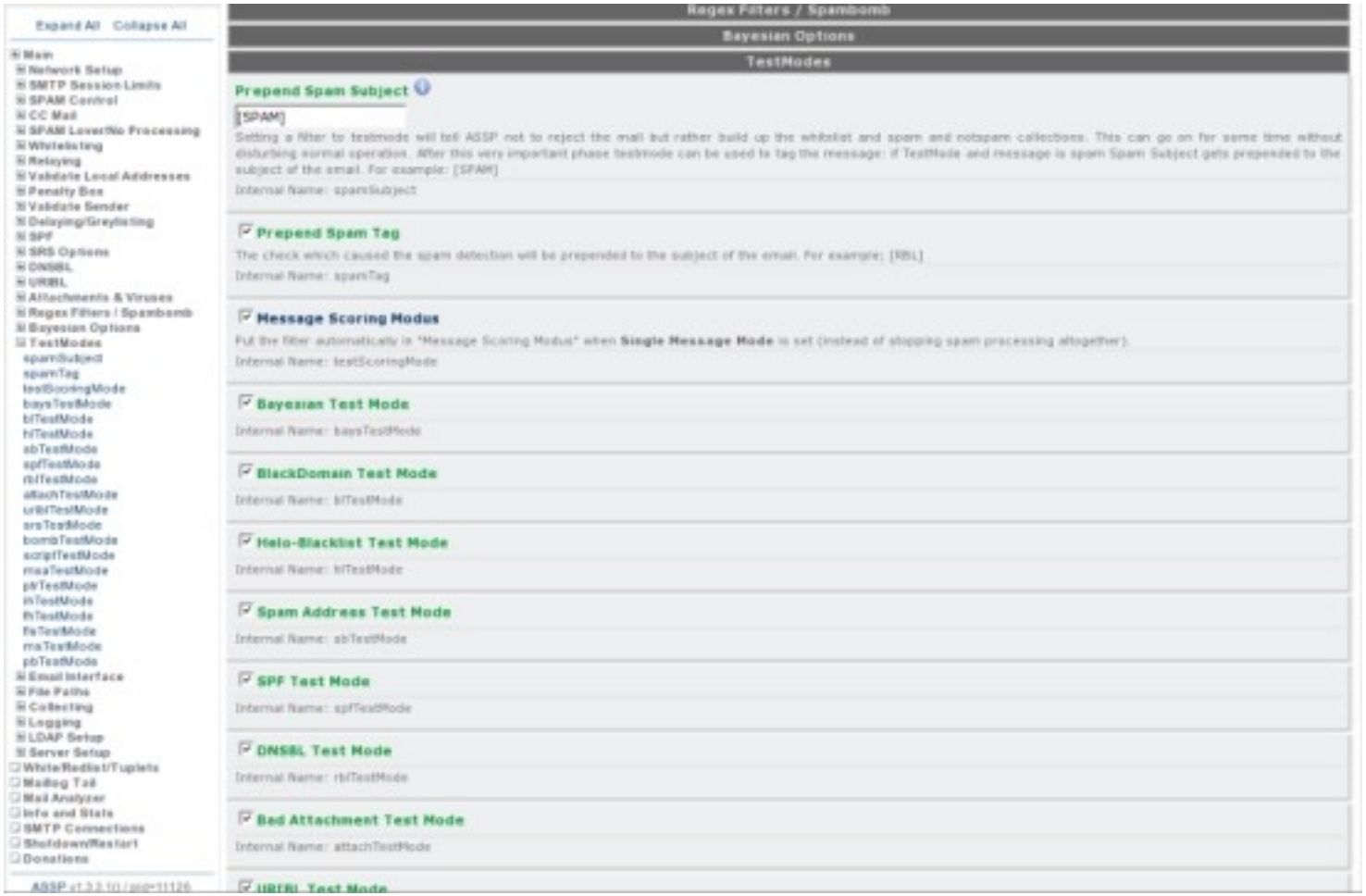
Because the changes to the UID and GID, we have to change the permissions for the ASSP-directory:

```
chown -R nobody:nogroup /usr/share/assp/
```

Afterwards open the tab *Relaying* and add your domain to *Accept All Mail* and *Local Domains*. Apply the changes.



Now open the tab *Test Modes* and mark all checkboxes. After ASSP has learned 500 - 1000 Mails, detection of spam will be effective, and you can unmark these checkboxes.



7 Install ClamAV

We install ClamAV out of the debian repository:

```
apt-get install clamav clamav-daemon
```

8 Install ClamAV Perl Module

The installation of the ClamAV perl module is a bit tricky because the old version of this module. The following perl-test will fail with many errors but is necessary to download the module.

Note: When you are asked if you want to configure perl manually, choose *no* ^' the configuration will be done automatically.

```
perl -MCPAN -e shell

test File::Scan::ClamAV

look File::Scan::ClamAV

vi clamav.conf
```

Change:

```
LocalSocket /root/.cpan/build/File-Scan-ClamAV-1.8/clamsock
Foreground
MaxThreads 1
ScanArchive
ArchiveMaxFileSize 1M
ArchiveMaxRecursion 1
ArchiveMaxFiles 2
```

To:

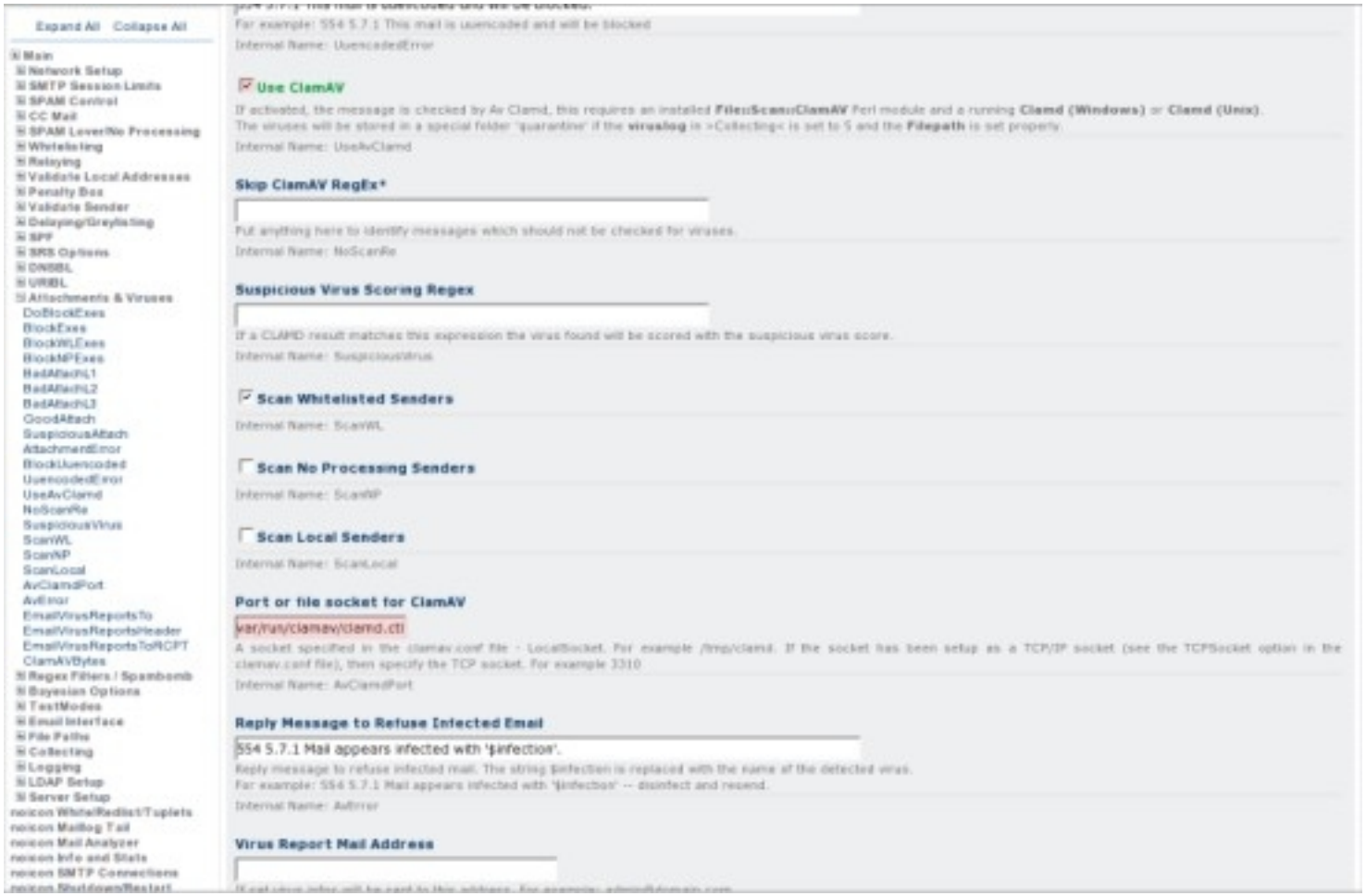
```
LocalSocket /root/.cpan/build/File-Scan-ClamAV-1.8/clamsock
Foreground true
MaxThreads 1
ScanArchive true
ArchiveMaxFileSize 1M
ArchiveMaxRecursion 1
ArchiveMaxFiles 2
```

Afterwards install the module:

```
make install
```

9 Integrate ClamAV Into ASSP

After the installation of ClamAV and the related perl module, ClamAV is accessible for ASSP. Switch back to the ASSP web-interface and open the tab *Attachments & Viruses*. Add */var/run/clamav/clamd.ctl* to *Port or file socket for ClamAV* and apply the changes.



10 Integrate ASSP Into Postfix

The easiest part...

```
vi /etc/postfix/master.cf
```


Change:

```
smtp inet n - - - - smtpd
```

To:

```
125 inet n - - - - smtpd
```

Restart Postfix:

```
/etc/init.d/postfix restart
```

11 Links

- ASSP: **http://assp.sourceforge.net/**
- ASSP Wiki: **http://www.asspsmtp.org/wiki/Welcome**
- ClamAV: **http://www.clamav.org/**
- Postfix: **http://www.postfix.org/**