Note: This README file refers to the contents of it's corresponding source tarball and the building/installation of ClamAV.

AUTO-STARTUP AND INSTALLATION INSTRUCTIONS
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These instruction have been tested with the version it was released with.

If you are using a newer version, examine the included Macintosh tarball for installation instruction, these files will be updated to correspond with it's released version as required.

The files included in the Macintosh tarball provide a way to start the service without logging in as well as a way to manually start, stop and reload this service.

First lets set up our user:

```
sudo niutil -create . /groups/clamav
sudo niutil -createprop . /groups/clamav gid 30
sudo niutil -create . /users/clamav
sudo niutil -createprop . /users/clamav uid 30
sudo niutil -createprop . /users/clamav gid 30
sudo niutil -createprop . /users/clamav shell /bin/tcsh
sudo niutil -createprop . /users/clamav home /tmp
sudo niutil -createprop . /users/clamav passwd "*"
```

Build clamav with one of the following commands:

```
./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/
etc; make; make install

./configure --mandir=/usr/local/share/man --sysconfdir=/etc; make;
make install
```

Open /private/etc/freshclam.conf and make the following changes.

```
UpdateLogFile /var/log/clamav/clam-update.log
LogVerbose
DatabaseOwner clamav
Checks 48
```
Open /private/etc/clamav.conf and make the following changes.
```
("Example" is an actual line to be deleted or commented out)

#Example
LogFile /var/log/clamav/clamd.log
LogVerbose
PidFile /var/clamav/clamd.pid
LocalSocket /var/clamav/clamd.sock
```

STARTUP ITEM

Move the "CLAMAV" folder to "/System/Library/StartupItems/".

```
sudo chown root:admin /System/Library/StartupItems/CLAMAV/*
sudo chmod 0755 /System/Library/StartupItems/CLAMAV/CLAMAV
```

Note: You can also place the folder in /Library/StartupItems/

Open /etc/hostconfig with an editor and insert the following line:

```
CLAMAV=-YES-
```

save the file.

With the flag set to "-YES-", clamav will be enabled at startup.

If you wish to disable auto startup at any time, set "CLAMAV=-NO-" in /private/etc/
hostconfig and it will disable this service and prevent manually starting it.

With the service enabled, you can start, stop and reload the service manually at any
time from terminal with one of the following commands:

```
sudo SystemStarter start "CLAMAV"
sudo SystemStarter stop "CLAMAV"
sudo SystemStarter restart "CLAMAV"
```


A safety has been built in preventing you from starting the service if you have disabled
it in /private/etc/hostconfig.

Now we can set up the folders and log files that `clamav` needs.

```
sudo mkdir /var/clamav
sudo chown clamav:clamav /var/clamav
sudo chmod 0644 /var/clamav
sudo mkdir /var/log/clamav
sudo touch /var/log/clamav/clamd.log
sudo touch /var/log/clamav/clam-update.log
sudo chmod 0644 /var/log/clamav/clamd.log
sudo chmod 0644 /var/log/clamav/clam-update.log
sudo chown clamav /var/log/clamav/clamd.log
sudo chown clamav /var/log/clamav/clam-update.log
```

Log Rolling for CLAMAV
~~~~~~~~~~~~~~~~~~~~~~~~~~

First we move the clamav folder to the periodic folder and set it's attributes.

```
cd logroll
sudo mv ./clamav /private/etc/periodic/clamav
chmod 0755 /private/etc/periodic
chmod 0755 /private/etc/periodic/*
chown root:wheel /private/etc/periodic
chown root:wheel /private/etc/periodic/*
```

Using your favorite editor, edit /private/etc/crontab and add the following entry:

```
30   4    *    *    6     root periodic clamav
```

Next, we need to create a link to this file for periodic to access it with.

```
cd /etc
sudo ln -s periodic/clamav/500.clamav clamav
```

Finally, we need to add our entry into the periodic config file located at /private/etc/default/periodic.conf using your favorite editor.

```
# clamav options

# These options are used by periodic(8) itself to determine what
to do
# with the output of the sub-programs that are run, and where to
send
# that output.
#
clamav_output="/var/log/clamav.out"        # user or /file
clamav_show_success="YES"                   # scripts returning 0
clamav_show_info="YES"                        # scripts returning
1
clamav_show_badconfig="NO"                    # scripts returning
2
```

This will roll the logs once a week and retain the 8 previous weeks of the logs.

AUTO-STARTUP AND INSTALLATION INSTRUCTIONS
FOR USE WITH amavis-new

~~~~~~

See the Macintosh Installation instruction included with amavis-new.

Install ClamAV as instructed above excluding the STARTUP ITEM.

Install the AMAVISCLAMAV startup item using the above instructions and insert "`AMAVISCLAMAV=-YES-`" in `/private/etc/hostconfig`

Moving down to the @av_scanner section, locate the ClamAV-clamd section, change the location of the `clamd.sock` file to point at `/var/clamav/clamd.sock`