

amavisd-new / ClamAV / SpamAssassin a Mac OS X HOWTO

1. - [Introduction](#) and Prerequisites
2. - [Getting](#) the archives
3. - [Installing](#) the ClamAV Software (10.3.x) or updating (ANY)
4. - [Configuring](#) ClamAV (10.3.x) or fresh install
5. - [Installing](#) amavisd-new (10.3.x) (with SpamAssassin)
or updating (ANY)
6. - [Editing](#) postfix (10.3.x)
- 7a. - Log Rolling Item (10.3.x)
- 7b. - Log Roll Item (10.4.x)

1. - Introduction and Prerequisites

This article covers installing amavisd-new and ClamAV to provide spam and virus controls to Postfix. This method will provide server-wide spam and virus filters for all incoming and outgoing mail. It's a very robust system and can be easily configured to provide a number of different site-specific options for your users. However, combating unwanted e-mail is an ongoing war and not just a single engagement. This article will describe a good beginning to a full-featured mail system, but you should not stop here.

Examine the Macintosh.tar.gz archive included with amavisd-new and ClamAV for updated files and installation instruction, these files will be updated to correspond with it's released version as required.

The files included in the Macintosh.tar.gz archive and included instructions provide a way to roll the logs and rolled log support for amavis-stats is built in and startup items have been automatically generated for your specific OS version.

You must have the Developer Tools and the Developer SDK's installed.

If you created a separate CLAMAV and/or AMAVISD startup items, added the periodic - clamav entry, please delete them before you begin this installation procedure, the AMAVISCLAMAV or MAILTRANSPORT from any previous ClamAV or amavisd-new source distributions will automatically be deleted provided you installed them according the their provided instructions.

Note this installation is absolutely independent from the one installed by Apple in Mac Os X Server 10.4 and some of what you are going to install cannot be configured in any way by using Apple Server Admin Application.

This installation uses the Apple's config files.

However, this installation will not be affected by Apple's Software Update and does not overwrite any Apple installed software.

Apple has assigned 82 and 83 as UID/GID for clamav and amavisd users and groups and the default location of the clamav config files is now in `"/private/etc/spam/clamav"`.

As well, some people have been experiencing building issues and this is a result of not selecting the correct default gcc compiler.

So in a terminal session and as root user, before you proceed with the instructions, issue the following command to ensure that the correct default compiler is selected:

```
# gcc_select 3.3
```

10.4.x users can use either the 3.3 or 4.0 compiler:

```
# gcc_select 3.3
```

or:

```
# gcc_select 4.0
```

BuildSmart is what you will use to install the software and is now 'Volume' friendly so you can build the software on another HD or BuildSmart can create and/or mount a work disk image and create the build environment on the Disk Image.

For the purposes of this document we will assume that you are building on the boot volume and not a Disk Image or other Volume. BuildSmart may need to get some perl modules when building a project. CPAN makes this easy, but we must have things configured in such a way that BuildSmart (if it needs to) knows where things are.

Every effort has been taken to ensure this doesn't occur, when you are installing perl modules you may run across dependencies that you don't have installed yet. Please respond in the affirmative when it asks you if you want them installed (if it asks about aliases for head and other programs, respond in the negative) and see the buildsmart homepage.

If you are already comfortable with CPAN, please skip this section.

If you require a more complex configuration this usually means you are an experienced CPAN user and know what you are doing so no further instructions are necessary for you.

CPAN comes installed by default in your Mac OS X but in the first run it has to be configured properly. From Terminal, preferably logged in as root (su), type:

```
# perl -MCPAN -e shell
```

If you get the CPAN prompt:

```
cpan>
```

It means you have it already configured, read on to make sure you have it configured properly.

If you are unsure about your CPAN configuration you can reconfigure your CPAN from scratch by typing the following at CPAN prompt:

```
cpan> o conf init
```

Typing 'perl -MCPAN -e shell' for the very first time in your machine or by typing 'o conf init' at the 'cpan>' prompt, you will be carried into the configuration dialog.

Now we are going to make the minimal configuration we'll need and in either cases, you will see the following message (or something close), answer "no":

```
/System/Library/Perl/5.8.6/CPAN/Config.pm initialized.
```

CPAN is the world-wide archive of perl resources. It consists of about 100 sites that all replicate the same contents all around the globe. Many countries have at least one CPAN site already. The resources found on CPAN are easily accessible with the CPAN.pm module. If you want to use CPAN.pm, you have to configure it properly.

If you do not want to enter a dialog now, you can answer 'no' to this question and I'll try to autoconfigure. (Note: you can revisit this dialog anytime later by typing 'o conf init' at the cpan prompt.)

Are you ready for manual configuration? [yes] no

and your Terminal window will be filled with a lot of lines showing the resultant configuration by default, you can ignore this and proceed with configuring CPAN until your finished.

If your cpan is configured, we need to be sure it's right for use with buildsmart:

```
cpan> o conf prerequisites_policy ask
prerequisites_policy ask
```

To finish with the configuration, we need to add some urls with mirrors of CPAN, use your browser to visit the mirrors list below and copy the urls of some of them near your country in order to achieve the best speed (whilst it is not always true the closest servers are the fastest, so select them as you please :)

<http://mirrors.cpan.org/>

We add some servers: (if you don't have any)

```
cpan> o conf urllist http://mirrors.gossamer-threads.com/CPAN
```

```
cpan> o conf urllist push ftp://ftp.ri.telefonica-data.net/CPAN
```

```
cpan> o conf urllist push ftp://ftp.mednor.net/pub/mirrors/CPAN
```

Last but not least, if you are behind a proxy you will need to tell cpan which is your proxy, to do that you should use the 'o conf ftp_proxy' command:

```
cpan> o conf ftp_proxy your_proxy_here
```

To verify all you did so far, use the 'o conf' command, without arguments to obtain a list of the whole configuration.

Now to save the settings

```
cpan> o conf commit
```

Remember the important settings in present case are:

```
prerequisites_policy ask
```

Now you are done with the CPAN configuration and can continue with the installation so we exit out of CPAN.

```
cpan> quit
```

If you experience problems building any of the perl modules, you probably have CPAN configured to not follow dependancies and any module that requires another module to be installed will fail to install, reconfigure your perl to prompt (ask) for dependent modules rather than ignore them.

2. - Getting the archives

amavisd-new, ClamAV, db (BerkeleyDB), gmp.

The official URLs for these libraries are:

amavisd-new

<http://www.ijs.si/software/amavisd/>

ClamAV

<http://sourceforge.net/projects/clamav/>

BerkeleyDB

<http://www.sleepycat.com/download/db/>

gmp

<ftp://ftp.gnu.org/gnu/gmp/>

IMPORTANT NOTE: You no longer need to download the software archives as this process has been automated to make installation easier and is provided for informational purposes only.

Build the BuildSmart application with the following command:

```
# tar -xzf <path-to-BuildSmart-X.X.X.tar.gz>
```

```
# cd BuildSmart-X.X.X
```

```
# ./configure --prefix=/usr && make && make install
```

NOTE:

X.X.X is the version number of the BuildSmart application.

Once you have successfully completed this installation, to update (or install) ClamAV and amavisd-new, you would issue:

```
# BuildSmart -p SpamAV -a
```

(SEE BuildSmart -h for more options)

This builds the SpamAV project, the -a has enabled 'autobuild' so you don't have to do very much but maybe hit return a few times if prompted for anything.

3. - Installing the ClamAV Software(10.3.x) or updating (ANY)

You thought you'd have to do something???

It doesn't get any easier than this, the software is built, configured and installed, a disk image is created with an installer package of the software for easy distribution.

4. - Configuring ClamAV (10.3.x) or fresh install

The software has already been configured and you do not need to do anything.

5. - Installing amavisd-new (10.3.x) (with SpamAssassin) or updating (ANY)

You thought you'd have to do something here, maybe you do???

You might want or need to edit the amavisd config file for the domain/hostname. This file contains a huge number of options that will pretty much determine your spam and virus policies for your server but these have been set for optimum performance and functionality.

You should familiarize yourself with this file so that you can get the desired results from your system. It's rather well commented so you shouldn't need to mess with it too much.

If you do want to make changes, this should be about all the changes you need to make.

\$mydomain to your main e-mail domain.

\$myhostname to your FQDN.

6. - Editing postfix (10.3.x)

Nothing for you to do here, you're done, reboot.

(SEE Notes:)

7a. - Log Roll item (10.3.x)

The logroll directory has already been installed in /etc/ so we just need to reference it.

If you have previously installed another log roll routine, you can either disable it (recommended) or skip these instructions.

If /etc/daily.local doesn't exist we first need to create it but if it does exist we can skip to the 'add our entry'.

```
# touch /etc/daily.local
```

```
# echo -en '#!/bin/sh -\n#\n\n' > /etc/daily.local
```

Now we can add our entry to /etc/daily.local.

```
# echo -e "  
\tif [ -f /etc/logroll/700.server-spamav ]; then  
\t\techo  
\t\techo \"Running Additional log roll scripts:\"  
\t\tsh /etc/logroll/700.server-spamav  
\tfi\  
" >> /etc/daily.local
```

(SEE Notes:)

7b. - Log Roll item (10.4.x)

No changes are required, the system has been patched to roll the ClamAV log files.

(SEE Notes:)

Notes:

During the installation of the perl modules, if you are prompted about configuring 'CPANPLUS', please respond in the negative.

A new helper program was installed by BuildSmart that can be used to manually stop, start and reload amavisd-new, clamd and freshclam with simple commands.

```
# spamctl start
```

```
# spamctl stop
```

```
# spamctl reload
```

The 'logroll' has support for amavis-stats rolled log feature so no additional changes need to be made for use with amavis-stats.

'spamtrainer', a replacement for the learn_junk_mail script has been installed to assist in the learning of SPAM and HAM from the appropriate accounts, see 'spamtrainer -h' and 'man spamtrainer' for additional information and usage of this utility, there is also a document in the extras folder of the distribution disk image as well.

An additional utility 'mailbfr' has been installed in '/usr/sbin' to aid in the backup, restore and recovery of the mail databases and settings, see 'mailbfr -h' and 'man mailbfr' for additional information and usage of this utility.

Please note that this application has undergone a major rewrite and while every effort has been made to ensure its effectiveness and functionality, the Authors and contributors cannot be held responsible for any damages whether in-sequential or consequential as a result from the use of this software and sole responsibility for damages rests upon you the user.