



# Integrating the AXIGEN Messaging Solution with AMAVIS

GECAD Technologies 10A Dimitrie Pompei Blvd., BUCHAREST 2, ROMANIA Tel.: +40 21 303 20 80 +40 21 303 20 81 http://www.axigen.com

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### Introduction

This document describes the steps required to perform an integration of the AXIGEN Mail Server with Amavis, in order to insure antivirus protection and functionality. Amavis is a generic interface used to connect a mail server to a number of antivirus products.

### Prerequisites

### **Operating systems**

The integration was successfully tested on the following operating systems:

- Fedora Core 5
- Mandriva 2006
- Debian 3.1
- Ubuntu Server 6.06

### Amavis

Amavisd-new version 2.4.2 must be used in this setup.

### Antivirus products

One of the following antivirus products can be used:

- BitDefender
- Kaspersky Kav4Mailservers-linux

**Note:** Though tests were only performed with the products listed above, the integration should function with any of the antivirus products Amavis supports (Sophos, DrWeb, F-Secure, Symantec AV engine, F-PROT, Nod32, etc).

### Setting-up Amavis

For the AXIGEN Mail Server and the desired antivirus product, please follow the installation procedure described in the user's manual.

# Dependencies

Amavisd-new requires the following software packages in order to run properly:

- PERL v5.8.2 or newer
- PERL modules
  - o Archive::Tar
  - Archive::Zip ver. 1.14 or newer
  - o Compress::Zlib ver. 1.35 or newer
  - Convert::TNEF
  - o Convert::UUlib ver. 1.05 or newer
  - o MIME::Base64
  - o MIME::Parser ver. 5.420 or newer
  - o Mail::Internet ver. 1.58 or newer
  - o Net::Server ver. 0.88 or newer



- o Net::SMTP ver.1.16 or newer
- o Digest::MD5 ver. 2.22 or newer
- o IO::Stringy
- o Time::HiRes ver. 1.49 or newer
- o Unix::Syslog
- o BerkeleyDB ver. 4.2 or newer

If you have all the dependencies properly installed, Amavis will run correctly.

Below you will find a list of distribution-specific instructions on how to make sure all the dependencies are installed. Make sure you have the specific package management tools (yum, apt-get, etc) installed and properly configured before continuing.

```
• Fedora Core 5
```

```
Run the following commands:
```

- # yum -y install amavisd-new
- # yum -y remove amavisd-new
- Mandriva 2006

Run the following commands:

- # urpmi amavisd-new
  - # rpme -e amavisd-new

• Debian 3.1

Run the following commands:

- # apt-get update
  - # apt-get -y install amavisd-new
    # apt-get --purge -y remove amavisd-new

Download the 1.42 version of the Compress::Zlib perl module (from <u>this link</u>), uninstall the old version and install the new one:

```
# dpkg -r --force-all libcompress-zlib-perl
# dpkg -i --force-all libcompress-zlib-perl_1.42-1_i386.deb
```

**Note:** Forcing the uninstall steps and the installation of a package is not a standard procedure and may result in dependency problems. Please use with care.

• Ubuntu Server 6.06

Run the following commands:

- # apt-get update
- # apt-get install amavisd-new
- # apt-get remove amavisd-new

Download the 5.420 version of MIME-Tools perl module (<u>from this link</u>) and install it: # dpkg -i libmime-perl\_5.420-0.1\_all.deb

## Installation

All the installation process must be performed while logged-in as the 'root' user.

1. Download and unpack amavis:

 Create temporary directory: # mkdir /tmp/amavis/



xiden

- Go to the temporary directory # cd /tmp/amavis/
- Download amavisd-new version 2.4.2:
   # wget http://www.ijs.si/software/amavisd/amavisd-new-2.4.2.tar.gz
- Unpack the archive:
   # tar -zxf amavisd-new-2.4.2.tar.gz

#### 2. Set-up the Amavis environment

 Create a working dir for Amavis: # mkdir /var/amavis /var/amavis/tmp /var/amavis/var /var/amavis/home

- Set permission for the Amavis working dirs: # chown -R axigen:axigen /var/amavis
   # chmod -R 750 /var/amavis
- Copy the amavisd binary to its new location:
   # cp /tmp/amavis/amavisd-new-2.4.2/amavisd /usr/local/sbin/
- Set the ownership and permissions for /amavisd:
   # chown root /usr/local/sbin/amavisd
   # chmod 755 /usr/local/sbin/amavisd
- Copy the default config file to: /etc/amavisd.conf:
   # cp /tmp/amavis/amavisd-new-2.4.2/amavisd.conf /etc/amavisd.conf
- Set the ownership and permissions for /etc/amavisd.conf:
   # chown root /etc/amavisd.conf
   # chmod 644 /etc/amavisd.conf
- Create the quarantine folder: /var/virusmails
   # mkdir /var/virusmails
- Set the ownership and permissions for the quarantine directory:
   # chown axigen:axigen /var/virusmails
   # chmod 750 /var/virusmails
- Copy the amavis package contents to /usr/share/ # mkdir /usr/share/ # cp -Rp /tmp/amavis/amavisd-new-2.4.2 /usr/share/

#### 3. Modify the amavis configuration

```
Locate the following variables and modify them as below:
    $daemon_user = 'axigen';
    $daemon_group = 'axigen';
    $TEMPBASE = "/var/opt/axigen/queue";
    $enable_db = 0;
    $enable_global_cache = 0;
    $final_virus_destiny = D_DISCARD;
```

FAST.RELIABLE.SECURE.MESSAGING

```
$final_banned_destiny = D_DISCARD;
$final_spam_destiny = D_DISCARD;
$final_bad_header_destiny = D_PASS;
```

Please remember to uncomment (remove the leading hash '#') the 'final\_\*\_destiny' configuration variables before setting them to the values specified above.

Note: the 'D\_BOUNCE' option is not supported by Axigen.

Locate the following configuration variable and enable it by removing the leading hash (#):

@bypass\_spam\_checks\_maps = (1);

Locate the following configuration variable and enable it by removing the leading hash (#):

\$myhostname = 'host.example.com';

Replace 'host.example.com' with your specific hostname.

```
Under the line:
```

```
$policy_bank{'AM.PDP-SOCK'} = { protocol=>'AM.PDP' };
insert:
    $protocol='AM.PDP';
Under the line:
    $virus_admin = "virusalert\@$mydomain";
```

insert:

undef \$virus\_admin;

# Antivirus configuration

In order to install the desired antivirus, the procedure described in the user's manual should be followed.

For the Kaspersky Kav4Mailservers, the following additional steps should be taken:

- Change the ownership on the Kaspersky directory # chown -R axigen:axigen /opt/kav/
- In the Amavis configuration file (/etc/amavisd.conf) modify the path to Kav4Mailservers
  - Look for the 'kav4mailservers' section
  - Change '/opt/kav/bin/aveclient' to
    - '/opt/kav/5.5/kav4mailservers/bin/aveclient'

## AXIGEN configuration

A filter must be defined in order to instruct AXIGEN to send email messages to Amavis for scanning.

- Log into Webadmin using the "admin" account;
- Go to the 'Server' section;
- 1. Define the Amavis filter
  - Click on the "Filters" page.





- Select the "AV/AS Filters" sub-page.
- Click the "Add new filter" button.
- Fill-in the following filter parameters: name: amavis address: inet://127.0.0.1:10024 protocolFile: /var/opt/axigen/filters/amavis.afsl idleTimeout: 60 actionOnMatch: reject maxConnections: 10
- Click the "Add" button.
- Click the "Commit" button.

#### 2. Activate the Amavis filter

- Select the "Filters" tab again and
- Click the "Add new filter"
- Fill-in the following parameters: priority: 100 or below, filter type: "Socket" filter name: "Amavis" apply on relay: "no".
- Click the "Add" button
- Click the "Commit" button

3. Save configuration changes

- Go to the "Commands" section
- Click the "Save config" button.

# Starting-up

## Antivirus

Follow the procedure in the specific antivirus manual to start the service. Normally, the antivirus is automatically started after installation.

## Amavis

Run the following command:

# amavisd start

# AXIGEN

The AXIGEN Mail Server is started with the command: # /etc/init.d/axigen start

# Testing the solution

- 1. Create a test user (or use an existing one) and logon using the Webmail interface. Alternatively you can use an email client such as Outlook or Thunderbird.
- 2. Compose an e-mail and send it to the inbox of the same user.
- 3. Compose another email and attach the EICAR test file (download from here).



4. You should not receive the second e-mail. The EICAR test file is a 'fake virus' created as a general test to see if your antivirus software is working correctly. This is NOT a live virus.

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