Virtual Mail Manager
Installation Guide
v2.3

Pre-requisites

VMM works on a systems with the following products. It is recommended that Exim and Courier be downloaded and compiled from the sources, to ensure that the latest versions are used (for security reasons). All other products can be found as packages shipped with all Linux distributions.

- Exim version 4.2 or above
  - www.exim.org
- Courier-IMAP version 1.53 or above
  - www.courier-mta.org
- MySQL version 3.23 or above
- Apache version 1.3 or above
- PHP version 4, working with Apache
- sudo

Optional Products

Kchecker

VMM will also work with the Kchecker virus scanner, and allow some configuration of parameters via a web interface.

SPAMAssassin

VMM does not give any control over spam assassin, but spam assassin is included in the exim configuration file, so installation instructions for spam assassin are included below.

Installation

Installing PHP, Apache and MySQL

Start the installation by installing PHP, Apache and MySQL. On a RedHat system, you will require the packages:

- php-<version>
- php-mysql-<version>
- httpd-<version>
- mysql-<version>
- mysql-server-<version>
- mysql-devel-<version

After installing PHP, Apache and MySQL:

1. Change the /etc/php.ini file to set the following two parameters:

register_globals = On
short_open_tag = On

Remember to restart httpd after changing this file

2. Start MySQL:

service mysqld start

3. Change the MySQL root password:

mysqladmin --user=root -p password <new password>

4. Start Apache:

service httpd start

Installing SPAM Assassin

1. Unpack the file: Mail-SpamAssassin-2.55.tar.gz.tar

   tar xvzf Mail-SpamAssassin-2.55.tar.gz.tar

2. Install, using CPAN (logged in as root):

   cd Mail-SpamAssassin-2.55

   perl -MCPAN -e shell

   o conf prerequisites_policy ask

   install Mail::SpamAssassin

   quit

Note: Should these steps fail, exit to the shell prompt, and type 'unset LANG' then start the install again.

3. Copy the start-up file to init.d

   cp spamd/redhat-rc-script.sh /etc/rc.d/init.d/spamassassin

5. Set SpamAssassin to start on boot, and then start it:

   chkconfig --add spamassassin

   chkconfig spamassassin on

   service spamassassin start

6. Spam Assassin is now installed, to ensure spam assassin is used, simply answer 'yes' to the question asked in the VMM installation procedure 'Do you wish to use SPAM Assassin'

Installing kchecker

1. Install the KnowledgeChecker rpm:

   rpm –i knowledgechecker-2.2-1.i386.rpm

2. Ensure that your virus checker is installed, and follow the instructions displayed by the rpm.

Installing Exim

To install exim, follow these steps:

1. Move the VMM kit to a suitable temporary directory (/tmp is assumed in these instructions), and unpack it:

   mv vmm-2.0.tar.gz /tmp
   cd /tmp
   tar xvzf vmm-2.0.tar.gz

2. Make a user for exim to operate as:

   adduser -r -g mail exim

3. Move the exim kit to a suitable temporary directory, and unpack it:

   mv exim-4.24.tar.gz.tar /tmp
   cd /tmp
   tar xvzf exim-4.24.tar.gz.tar

4. Copy the file 'vmm/exim/Makefile' from the VMM kit, to the directory 'exim-4.24/Local/'

   cp /tmp/vmm-2.0/exim/Makefile exim-4.24/Local

5. Make and install exim:

   cd /tmp/exim-4.24
   make
   make install

   The exim binaries will be installed to /usr/sbin, logs in /var/log/exim, spools in /var/spool/exim. If you receive any errors at this point, ensure that all three MySQL packages are really installed.

6. Next, run the script to install the exim configuration as required by VMM. This script will install startup and logrotate scripts for exim, create the VMM database and user in MySQL and load in default configuration into the database:

   cd /tmp/vmm-2.0
   ./vmm-exim-install

Installing Courier

To install courier, follow these steps:

1. Move the courier kit to a suitable temporary directory, and unpack it. This CANNOT be done as the root user, so use the newly created exim user instead:

    cp courier-imap-3.0.3.tar.bz2 /tmp
    chown exim:mail /tmp/courier-imap-3.0.3.tar.bz2
    su – exim
    cd /tmp
    bunzip2 courier-imap-3.0.3.tar.bz2
    tar xvf courier-imap-3.0.3.tar
    cd courier-imap-3.0.3
    ./configure (if using redhat, use **./configure –with-redhat**)
    make
    make check
    CTRL-D (to return to the root user)

2. Then, ***as root***, install courier:

    make install
    make install-configure
    cp /tmp/courier-imap-3.0.3/courier-imap.sysvinit /etc/init.d/courier

3. Next, run the script to install the courier configuration as required by VMM. This script will install startup and logrotate scripts for courier and load in default configuration into the database:

    cd /tmp/vmm-2.0
    ./vmm-courier-install

Installing VMM

To install VMM, use the following steps:

1. Run the script:

   cd /tmp/vmm-2.0
   /tmp/vmm-install

   This will install the VMM web pages and utilities.

2. VMM can only create mailboxes on the server if the apache user is configured to do so, by giving the apache user permission to run the vmm_control utility as root. This is achieved using 'sudo'. The control utility also enables VMM to start and stop processes. To configure sudo, type:

   visudo

3. In the visudo file, enter the following line:

   apache <hostname>=(root) /usr/vmm/bin/vmm_control

   Replace <hostname> with the machine hostname, as obtained from 'uname –n', then exit by typing 'wq'

4. Next, give the apache user a password, using:

   passwd apache

5. Next, edit the file /usr/vmm/bin/apache_vmm_control, and replace the word 'PASSWORD' with the apache users password.

Running VMM

You can now access VMM by using a web browser:

URL:	http://<hostname>/vmm
User:	admin
Password:	vmm

Check and change the following before finishing the install:

1. Check Mail System Parameters
2. Check Automated Checks parameters
3. Check Virus Admin Parameters
4. Change the admin users password!

Synchronising with Exchange via LDAP

In order to allow exim to verify users on a connected exchange system, a perl script is included with VMM which synchronises Exchange e-mail addresses with the extusers table in VMM.

This allows Exim to allow or block users based on whether users exist in Exchange, without simply letting the mail through to Exchange and making Exchange do the rejection of unwanted users. As Exim can block messages before they arrive in Exim, this prevent DoS attacks, and unwanted spam messages.

In order to use the script, it is necessary to install the perl LDAP modules. To do this, type:

perl -MCPAN -e 'install Bundle::Net::LDAP'

Next, edit the script 'extuser_sync.pl' to modify the following parameters:

$ExchangeVersion:	Should be "55" or "2000" depending on the exchange version
$ExchangeServer:	The IP address of the Exchange server
$LdapPort:	The LDAP port, normally 389
$User:	The LDAP user, for 2000 servers only
$Password:	The LDAP password, for 2000 servers only
$BaseDn:	The LDAP basedn, for 2000 servers only
$IncludeGroups:	Set to include groups in the synchronisation
$IncludeFolders:	Set to include folders in the synchronisation
$IncludeRecips:	Set to include recips in the synchronisation
$IncludeHidden:	Set to include hidden users in the synchronisation

More than one script may be run; simply make a copy of the script and run both from crontab.