

MySpamGuard 1.1-3 Installation Manual

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Table of Contents

Introduction	3
New Features in MySpamGuard 1.1	3
Hardware and Software Requirements	4
Dependencies Installation	5
Prerequisites	7
CentOS 5 Installation	7
Email Server (MTA)	8
MailScanner	9
MailWatch	9
SpamAssassin	10
ClamAV	10
Steps of Installation MySpamGuard	11
Webmin Installation	14
Maintenance	16



Introduction

MySpamGuard is an email spam solution. It searches the headers and text of incoming emails to determine whether it is spam based on the procmail instruction or rules set by the user. MySpamGuard will classify the suspected spam accordingly; email sent by a virus, email from a known spam source which is definitely spam, and email which is probably spam. It then tags the filtered out email with the appropriate header and respond accordingly to the action specified by the users.

New features in MySpamGuard 1.1

- Easy installation process. The files needed will be downloaded automatically by the installer.
- All modules needed in MySpamGuard are combined as one package. The modules are:

SpamAssassin – spam checking aplication

MailScanner – email scanning for general filtering

ClamAV – anti virus solution

- Minimum configuration because most of the configuration is installed automatically by the installer
- Automatic update for all package from OSCC repository server
- Easy to upgrade to the next version



Hardware and Software Requirements

Hardware

Recommended hardware

- -Pentium IV and above
- -512MB RAM and above
- -10GB HD and above
- -1 NIC Card

Software

- CentOS 5 / Red Hat Enterprise Linux Operating System
- Postfix Mail Transport Agent (MTA)
- SpamAssassin Spam Checking
- MailScanner Email Scanning
- MailWatch (php+MySQL) Reporting and Statistics
- ClamAV Antivirus
- Webmin Web Based Administration (optional)



Dependencies Installation

Dependencies Resolved

Package	Arch	Version	Repository	Size		
Installing:	=======	=========	=======	======		
myspamguard	noarch	1.1-3.oscc	oscc-repo	41 k		
Installing for dependencies:		1.1-3.0scc	озсс-теро	71 K		
MailScanner-perl-MIME-Base64 i386		3.05-5	oscc-repo	44 k		
арr	i386	1.2.7-11	base	122 k		
apr-util	i386	1.2.7-6	base	75 k		
clamav	i386	0.91.2-1.el5.rf	oscc-repo	1.1 M		
clamav-db	i386	0.91.2-1.el5.rf	oscc-repo	10 M		
clamd	i386	0.91.2-1.el5.rf 0.91.2-1.el5.rf	oscc-repo	81 k		
дтр	i386	4.1.4-10.el5	base	664 k		
httpd	i386	2.2.3-11.el5.centos	base	1.1 M		
mailscanner	noarch	4.74.15-2	oscc-repo	687 k		
mailwatch	noarch	1.0.4-4	oscc-repo	2.4 M		
mysql	i386	5.0.22-2.1.0.1	base	3.0 M		
-	i386	5.0.22-2.1.0.1	base	10 M		
mysql-server oscc-bayesian	noarch	0.0.2-2.oscc		2.2 M		
oscc-tracking	noarch	0.0.2-2.0scc 0.0.2-1.oscc	oscc-repo	2.2 M 29 k		
perl-Archive-Tar	noarch noarch	1.30-1.fc6	oscc-repo base	29 k 47 k		
-	noarch noarch	1.30-1.jc0 1.20-1.el5.rf		47 k 100 k		
perl-Archive-Zip	поагсп i386	1.42-1.fc6	oscc-repo	100 k 52 k		
perl-Compress-Zlib		· ·	base	34 k		
perl-Convert-BinHex	noarch	1.119-2.2.el5.rf	oscc-repo	18 k		
perl-Convert-TNEF	noarch i386	0.17-3.2.el5.rf	oscc-repo	10 k 147 k		
perl-DBD-MySQL	i386	3.0007-1.fc6	base	147 k 50 k		
perl-DBD-SQLite	i386	1.13-1.el5.rf	oscc-repo	50 k 605 k		
perl-DBI		1.52-1.fc6	base	003 k 12 k		
perl-Digest-HMAC	noarch	1.01-15	base			
perl-Digest-SHA1	i386	2.11-1.2.1	base	48 k		
perl-Error	noarch	0.17008-2.el5.rf	oscc-repo	26 k		
perl-Filesys-Df	i386	0.92-1.el5.rf 3.56-1	oscc-repo	35 k		
perl-HTML-Parser	i386		oscc-repo	124 k		
perl-HTML-Tagset	noarch	3.10-2.1.1	base	15 k		
perl-IO-Socket-INET6	noarch	2.51-2.fc6	base	13 k		
perl-IO-Socket-SSL	noarch	1.07-2.el5.rf	oscc-repo	43 k		
perl-IO-Zlib	noarch	1.04-4.2.1	base	15 k		
perl-IO-stringy	noarch	2.110-1.2.el5.rf	oscc-repo	70 k		
perl-MIME-tools	noarch	5.420-2.el5.rf	oscc-repo	276 k		
perl-Mail-SPF	noarch	2.005-1.el5.rf	oscc-repo	142 k		
perl-MailTools	noarch	1.77-1.el5.rf	oscc-repo	85 k		

MySpamGuard 1.1-3 (MAMPU)

perl-Net-CIDR	noarch	0.11-1.2.el5.rf	oscc-repo	15 k
perl-Net-DNS	i386	0.61-1.el5.rf	oscc-repo	276 k
perl-Net-Daemon	noarch	0.43-1	oscc-repo	44 k
perl-Net-IP	noarch	1.25-2.fc6	base	31 k
perl-Net-SSLeay	i386	1.30-4.fc6	base	195 k
perl-NetAddr-IP	i386	4.007-1.el5.rf	oscc-repo	129 k
perl-Socket6	i386	0.19-3.fc6	base	22 k
perl-Sys-Hostname-Long	noarch	1.4-1.2.el5.rf	oscc-repo	12 k
perl-TimeDate	noarch	1:1.16-5.el5	base	32 k
perl-URI	noarch	1.35-3	base	116 k
perl-libwww-perl	noarch	5.805-1.1.1	base	376 k
perl-version	i386	0.72.3-1.el5.rf	oscc-repo	75 k
php	i386	5.1.6-15.el5	base	1.2 M
php-cli	i386	5.1.6-15.el5	base	2.3 M
php-common	i386	5.1.6-15.el5	base	140 k
php-gd	i386	5.1.6-15.el5	base	111 k
php-mysql	i386	5.1.6-15.el5	base	83 k
<i>php-pdo</i>	i386	5.1.6-15.el5	base	61 k
postfix	i386	2:2.3.3-2	base	3.6 M
postgresql-libs	i386	8.1.9-1.el5	base	196 k
spamassassin	i386	3.1.9-1.el5	base	922 k
tnef	i386	1.4.3-1.el5.rf	oscc-repo	44 k

Transaction Summary

Install 58 Package(s) Update 0 Package(s) Remove 0 Package(s)

Total download size: 44 M

This dependencies will be installed automatically by MySpamGuard Installation. Used this list to check for any missing dependencies during installation.

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Prerequisites

CentOS 5 Installation

CentOS is an Enterprise-class Linux Distribution derived from sources freely provided to the public by a prominent North American Enterprise Linux vendor. CentOS is perfect for servers and cluster nodes where newer software is not a requirement.

CentOS preferred software updating tool is based on yum, although support for use of an up-to-date variant exist. Each may be used to download and install both additional packages and their dependencies, and also to obtain and apply periodic and special (security) updates from repositories on the CentOS Mirror Network. The current version of CentOS is CentOS 5.0 and it was released on April 12 2007.

How to install CentOS 5.

- 1) Place the DVD/CD-ROM in your DVD/CD-ROM drive and boot your system from the DVD/CD-ROM. If the DVD/CD-ROM drive is found and the driver loaded, the installer will present you with the option to perform a media check on the DVD/CD-ROM. This will take some time, and you may option to skip over this step.
- 2) The welcome screen will appear and click 'Next' to proceed.
- 3) Language selection Select the language and it will become the default language for the operating system once it is installed. Selecting the appropriate language also helps target your timezone configuration later in the installation. The installation program tries to define the appropriate time zone based on what you specify on this screen. Once you select the appropriate language, click 'Next' to continue.
- 4) Keyboard Layout Selection Select the correct layout type for the keyboard you would prefer to use for the installation and as the system default. Click 'Next' to continue installation.
- 5) Setup your disk partitioning, the first three option will perform automatic partitioning while

MAMPU MySpamGuard 1.1-3

'Create customs layout' will perform manual partition.

6) For Network configuration, the installation program will automatically detects any network

devices and its hostname. You can edit its configuration or just click 'Next' to continue.

7) Set your time zone by selecting the city closest to your computer's physical location. Select

'System Clock uses UTC' if your system is set to UTC. (for this installation, unselect it)

8) Set root password. This is the most important steps because root account is used for system

administration.

9) You can customize software selection of your system or do it after installation.

10) A screen preparing the installation will be appear. For your reference, a complete log of your

installation can be found in /root/install.log once you reboot your system.

11) This step is when the installation program installing all the packages. How quickly this happens

depends on the number of packages you have selected and your computer's speed.

12) Now your installation is complete. The installation program prompts you to prepare your system

for reboot.

13) Then, start your CentOS 5 in run level 5 (graphical run level), the Setup Agent is presented,

which guides you through the CentOS configuration. Using this tool, you can set up your

system time and date, install software, register your machine with CentOS Network and more.

Taken from: http://www.centos.org/docs/5/html/Installation_Guide-en-US/

Reference: http://www.howtoforge.com/perfect_server_centos4.5

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Email Server (MTA)

Postfix

Postfix is a free software/open source mail transfer agent (MTA), a computer program for the routing

and delivery of email. It is intended as a fast, easy to administer and secure alternative to the widely-

used Sendmail MTA. The strengths of Postfix are its resilience against buffer overflows and also its

handling of large amounts of e-mail.

Website: http://www.postfix.org/

MailScanner

MailScanner is an open source e-mail security system for use on Unix e-mail gateways, first released in

2001. It protects against viruses and spam and it is distributed under GNU General Public License. It

can decode and scan attachments intended solely for Microsoft Outlook users (MS-TNEF). If possible,

it will disinfect infected documents and deliver them automatically. It also has features which protect it

against Denial Of Service attacks.

Website: http://www.mailscanner.info/

MailWatch

MailWatch for MailScanner is a web-based front-end to MailScanner written in PHP, MySQL and

JpGraph and is available for free under the terms of the GNU Public License. It comes with a

CustomConfig module for MailScanner which causes MailScanner to log all messages data (excluding

body text) to a MySQL database which is then queried by MailWatch for reporting and statistics.

Features:

displays the inbound/outbound mail queue size (currently for Sendmail/ Exim users only), Load

Average and Today's Totals for Messages, Spam, Viruses and Blocked Content on each page

header.

Colour-coded display of recently processed mail.

Drill-down onto each message to see detailed information.

Page 9

(MAMPU

Last Updated: Tuesday, Jan 13th, 2009

(MAMPU) MySpamGuard 1.1-3

Quarantine management allows you to release, delete or run sa-learn across any quarantined

messages.

Reports with customisable filters and graphs by JpGraph

Tools to view Virus Scanner status (currently Sophos only), MySQL database status and to view

the MailScanner configuration files.

Utilities for Senmail to monitor and display the mail queue sizes and to record and display

message relay information.

Multiple user levels: user, domain and admin that limit the data and features available to each.

XML-RPC support that allows multiple MailScanner/ MailWatch installations to act as one.

Website: http://mailwatch.sourceforge.net/doku.php

SpamAssassin

It is a program that is used for e-mail spam filtering which based on content-matching rules. It classify

the spam by matching the combination of the comparison of words and symbols used in e-mail's header

and body. It is the most effective spam filter, especially when used in combination with spam

databases.

For CentOS, it is automatic installed once your distro is installed.

Website: http://spamassassin.apache.org/

ClamAV

It is free anti virus software toolkit for Unix-like operating systems. It is mainly used with a mail

exchange server as a server-side e-mail virus scanner. Both ClamAV and its updates are made available

free of charge. ClamAV is generally configured to automatically update its list of virus definitions via

the Internet.

Website: http://www.clamav.net/



Steps of installation MySpamGuard

1. Open a Terminal

2. Install OSCC repository and rpmforge

rpm -Uvh http://repos.oscc.org.my/centos/5/os/i386/CentOS/oscc-repos-0.0.1-1.noarch.rpm rpm -Uvh http://dag.wieers.com/rpm/packages/rpmforge-release/rpmforge-release-0.3.6-1.el5.rf.i386.rpm

3. Disable firewall, SELinux and make sure mysql root password is set to none to ease up installation. You can change all these settings after installation.

4. Install MySpamGuard

yum install myspamguard

A warning about mirror will prompt and waiting for your answer. It will appear because CentOS is recognizing a new mirror (in this case, OSCC mirror)

warning: rpmts_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID e8562897

Importing GPG key 0xE8562897 "CentOS-5 Key (CentOS 5 Official Signing Key) <centos-5-key@centos.org>" from http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-5

Is this ok [y/N]:

Type 'y' to continue.

5. Install dependencies perl-OLE-Storage_Lite

yum install perl-OLE-Storage_Lite



6. Run MySpamGuard

After the installation is complete, open web browser.

Type this url http://localhost/mailscanner/

Use this default username and password, but we recommend you to change the password for security purpose.

username: admin

password: kambing1234

7. Edit configuration files

Stop postfix and MailScanner services before changing files

```
I) file: /etc/postfix/main.cf
myhostname = YOUR_HOST_NAME (eg: myspamguard.oscc.org.my)
inet_interface = all
transport_maps = hash:/etc/postfix/transport (**add this line if it does not exist)
relayhost = YOUR_DOMAIN_NAME (eg: http://www.oscc.org.my) (**optional)
```

II) file: /etc/postfix/transport

```
(add this sentence)
```

DOMAIN1 smtp:[MAIL_SERVER1_IP_ADDRESS]

DOMAIN2 smtp:[MAIL_SERVER2_IP_ADDRESS]

eg: oscc.org.my smtp:[10.20.20.3]

then run the command postmap /etc/postfix/transport

III) file: /etc/MailScanner/MailScanner.conf

%org-name% = YOUR_ORGANIZATION_SHORT_NAME (e.g: OSCC)



%org-long-name% = YOUR_ORGANIZATION_NAME (e.g. Open Source Competency Centre)

%web-site% = YOUR_ORGANIZATION_WEBSITE (e.g: http://oscc.org.my)

Dangerous Content Scanning = no

Maximum Archive Depth = 0

IV) Check the permissions of folders in /var/www/html/mailscanner/chown apache:apache /var/www/html/mailscanner/images/cache chmod ug+rwx /var/www/html/mailscanner/images/cache

Check sendmail services (/etc/init.d/sendmail status) and STOP sendmail if the services exist (/etc/init.d/sendmail stop)

Start postfix services. (/etc/init.d/postfix start)

Start MailScanner services. (/etc/init.d/MailScanner start)

Test application in browser with this url http://localhost/mailscanner (refer step no 4)

Send one testing email by typing this command:

echo "ujian123" | mail -s "test email" root@localhost

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Webmin Installation (optional)

Webmin is a web-based interface for system administration for Unix. Using any browser that supports

tables and forms (and Java for the File Manager module), you can setup user accounts, Apache, DNS,

file sharing and so on.

Webmin consists of a simple web server, and a number of CGI programs which directly update system

files like /etc/initd.conf and /etc/passwd. The web server and all CGI programs are written in Perl

version 5, and use no non-standard Perl modules.

Websites: http://www.webmin.com

Webmin Installation and Configuration

1. Run this command to install:

rpm -Uvh http://repos.oscc.org.my/centos/5/os/i386/CentOS/webmin-1.370-1.noarch.rpm

2. The rest of the installation wil be done automatically to the directory /usr/libexec/webmin, the

administration username set to root and the password to your current root password.

3. Open your browser and go to http://localhost:10000/

4. To administer from MailScanner from Webmin, you have to install MailScanner Webmin

module.

Download the module from http://repos.oscc.org.my/centos/5/os/i386/CentOS/webmin-download

module-1.1-4.wbm

• Once inside webmin, choose 'Webmin > Webmin Configuration' from the left panel

Choose 'Webmin Modules'

Select install from local file. Select the '...' button and find the downloaded webmin module

from your computer.

Select Install Module

Refresh your browser for the changes to take effect.



5. Post installation:

The following module configuration examples should be tailored to suite your installation:

Full path to MailScanner program = /usr/lib/MailScanner/

Full path and filename of MailScanner config file = /etc/MailScanner/MailScanner.conf

Full path to the MailScanner bin directory = /usr/sbin

Full path and filename for the MailScanner pid file = /var/run/MailScanner.pid

The following changes should be made:

"Command to start MailScanner" add "/etc/init.d/MailScanner start" (without the quotes) instead of just run server.

"Command to stop MailScanner" add "/etc/init.d/MailScanner stop" (without the quotes)

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Maintenance

The following should be checked on a regular basis:

Network connections

The administrator should verify the server is reachable from the public network to avoid service

interruption. Network monitoring is beyond the scope of these manual.

Log files

With the log files, it is possible to identify and monitor hardware and software problems on the servers.

The log files should be checked at least once a week. All log files in /var/log/ directory.

Services

Used to start, stop or cancel a service on a local or remote computer. It is also a tool to set up recovery

actions to take place if a service should fail. Should be checked in case of service failure.

e.g:

#/etc/init.d/[service name] start/stop/status

Package update/patch

Check that the latest package update/patches has been installed on the servers. It should be checked and

done at least once a month.

Disk Space

to verify that there is always enough space on the most mission critical servers. It should be done at

least once a week. Use df -lh command.



Password change

Password should be changed periodically, at least every three months.

ClamAV update

Execute command freshclam frequently to verify automatic update is successfully done.

Check SpamAssassin rules

Execute command sa-update -D at least once a month to download the latest spamassassin rules.