



MYSPAMGUARD

Administration Manual

Version 2.1

OPEN SOURCE COMPETENCY CENTRE (OSCC) MAMPU

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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

OBJECTIVES

MySpamGuard assists the Public Sector agencies to achieve the following objectives:

- To reduce number of incoming spam email in user's inbox...
- Easy to handle or managing the incoming spam email using MailWatch the Spam System front-end.
- Administrator have the total handling for rules use to block incoming spam email.

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FEATURES

Some of the features available in MySpamGuard are:

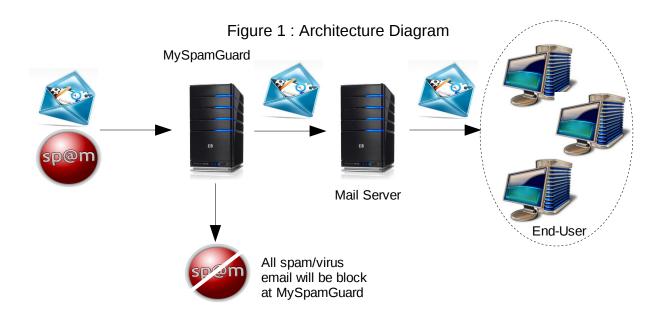
- Easy installation process. The files needed will be downloaded automatically by the installer.
- All modules needed in MySpamGuard are combined as one package. The modules are:
 - O SpamAssassin spam checking aplication
 - O MailScanner email scanning for general filtering
 - O ClamAV anti virus solution
- Minimum configuration because most of the configuration is installed automatically by the installer

ARCHITECTURE

There are three components in MySpamGuard which are **Spam Component**, **Spam Database**, and **MySpamGuard Console**.

- Spam Component using MailScanner as the spam and vrirus email blocker
- All mail and data for suite component in MyWorkSpace will be stored in the *Mail* Database.
- There are two mail transporters used in MyWorkSpace:
 - O Postfix acts as a *Mail Transfer Agent (MTA)* which transfers electronic mail messages from one computer to another.
 - O DBMail acts as a *Mail Delivery Agent (MDA)* which stores and retrieves email received between the MTA and database.







ADMINISTRATION

Login Page

Open your web browser to login into **MySpamGuard Console**, as shown below:

URL: http://DOMAIN_NAME/mailscanner



MySpamGuard Console



After the first login, the main console will show the **Recent Messages** of incoming email in the system.



Status Bar

The **Status Bar** contains five services which is Jump to Message, Color Codes, Status, Mail Queues and Today's Total.

Jump to message

We can use the **Jump to message** service to locate messages using message ID. For example, the message ID is 1998E1350001.40D8E, if admin key-in the ID at the field provided at **Jump to message**, admin can retrieve the e-mail summary.

Color Codes

We are using **Color Codes** to distinguish clean, spam and virus e-mail from one to another.

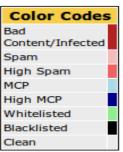


Illustration 1: Color Codes box

Explanation for each color:

1. Bad Content/Infected

The e-mail contains spam and virus. E-mails that are catogerised as spam e-mail (e-mail with high SpamAssassin score, by default > 6.0) are blocked at MySpamGuard server and stored in the Quarantine folder.

2. Spam

E-mails with low SpamAssassin scores are identified as spam and stored in Quarantine folder.

3. High Spam

E-mails with higher SpamAssassin (by default score is > 10.0) scores are identified as High Spam and will be stored in the Quarantine folder.



4. MCP

Message Content Protection (MCP) allows you to write rules for scanning the text content of e-mail messages in order to trap messages that contain certain numbers of keywords and/or phrases that should not leave beyond your company into the internet. It could also be used to ban mails containing pornographic phrases and so on, without having to mess with Spam Actions or have custom spam rules.

5. High MCP

E-mails with a high number of MCP are blocked at MySpamGuard.

6. Whitelisted

All e-mails which are whitelisted are allowed passage from MySpamGuard server.

7. Blacklisted

All e-mails which are blacklisted are blocked at the MySpamGuard server and not released.

8. Clean

All the clean e-mails are color-coded in grey color. These e-mails have SpamAssassin's scores below the spam score.

Status

The Status box shows the current status of two main services running in MySpamGuard which is MailScanner and Postfix. It also shows the Load Average for the whole system.

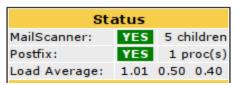


Illustration 2: Status box



Mail Queues

The Mail Queues box notifies of Inbound or Outbound e-mails. Inbound shows incoming e-mail and Outbound shows the outgoing e-mail.



Illustration 3: Mail Queues box

Today's Total

Total box shows a summary of the total incoming e-mails, e-mails that contains spam and virus and etc.

Today's Totals				
Processed:	206	2.1Mb		
Clean:	173	84.0%		
Viruses:	0	0.0%		
Top Virus:		None		
Blocked files:	0	0.0%		
Others:	0	0.0%		
Spam:	14	6.8%		
High Scoring Spam:	19	9.2%		
MCP:	0	0.0%		
High Scoring MCP:	0	0.0%		

Illustration 4: Today's Total box

Menu Bar

The Main Menu Bar provides a list of options to display recent messages, white/black list, quarantined e-mails, reports, user management tools and logout menu.

Recent Messages	Lists	Quarantine	Reports	Tools/Links	Logout	
Illustration 5: Menu Bar						



Recent Messages

After the first login, the first content displayed on the MySpamGuard Console are **Recent Messages**. It shows the last 50 messages on the system and periodically updates every 30 seconds.

Lists

Using the **Lists** service, e-mails or IP addresses can placed as whitelisted or blacklisted by selected the appropriate boxes.

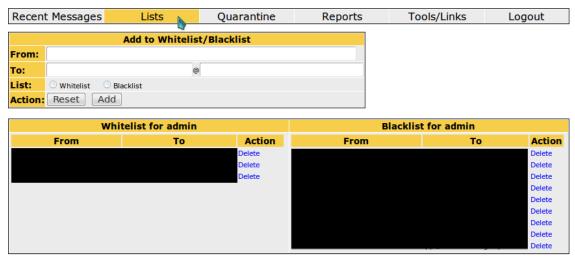


Illustration 6: Lists

Quarantine

Quarantine shows all the quarantine e-mails with low SpamAssassin score. All quarantined e-mail will be kept and grouped by its date.





Illustration 7: Quarantine

Below is the Illustration of quarantine folder:

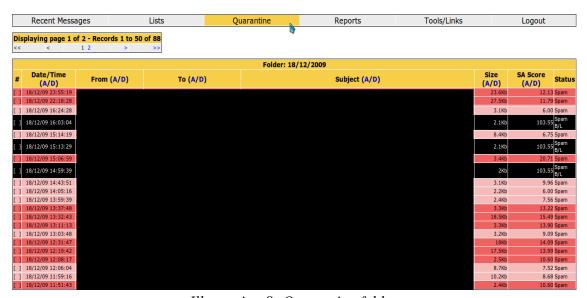


Illustration 8: Quarantine folder

Reports

Administrators can generate reports or statistics for a certain period. A report can also use the preferred filter such as user e-mail address (sender or recipient), e-mail header or other filter provided in **Add Filter** section. The filter option we add in the Add Filter will be the parameter use to generate the report.

Aside from that, administrator can perform SA Learn update using service **Message**Operations in Reports section.



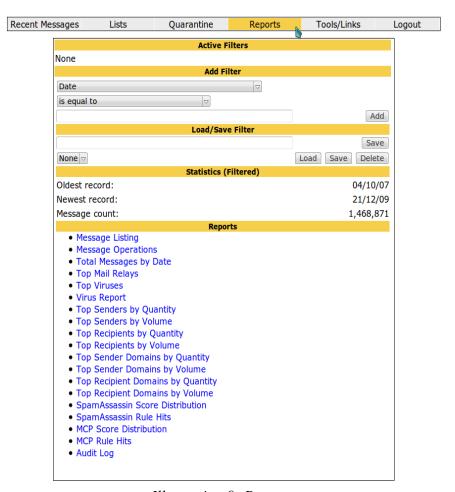


Illustration 9: Reports

In this example, a report on **Total Messages by Date** and **Top Senders by Quantity** for period from 15 December until 20 December 2009 is produced:

First, add period time in the Add Filter



Illustration 10: Adding filter



You can see the total e-mail within period (period based on **Active Filter**) in the **Statistics** (Filtered).

Active Filters	
Date is greater than '09/12/15'	Remove
Date is less than or equal to '09/12/20'	Remove
Add Filter	
Date ▽	
is equal to	
	Add
Load/Save Filter	
	Save
None 🗸	Load Save Delete
Statistics (Filtered)	
Oldest record:	16/12/09
Newest record:	20/12/09
Message count:	3,250

To generate report for Total Messages by Date, select Total Messages by Date in the Reports section. Reports will be shown in graph based from the period time used.

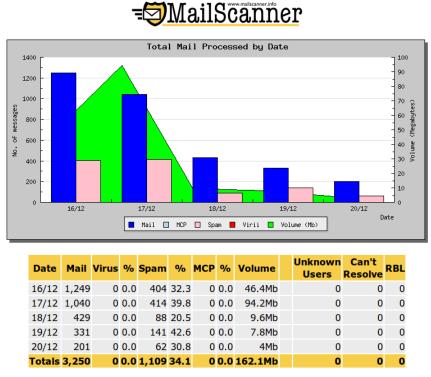


Illustration 11: Graph for Total Messages by Date



To generate report for Top Sender by Quantity, select **Top Sender by Quantity** in the Reports section. Reports will be shown in pie-chart form based from the period time used.



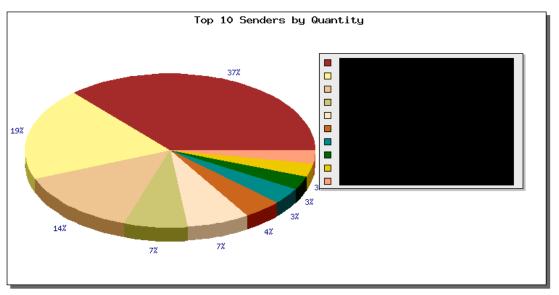


Illustration 12: Chart for Top Sender by Quantity

Tools/Links

In Tools/Links, administrator can perform few task in here:

- Manage users such as adding new users and editing or deleting existing users under User Management
- Updating package/rule such as SpamAssassin (spam scanner) and ClamAV (virus scanner)
- 3. Preview data (configuration) such as MailScanner and SpamAssassin



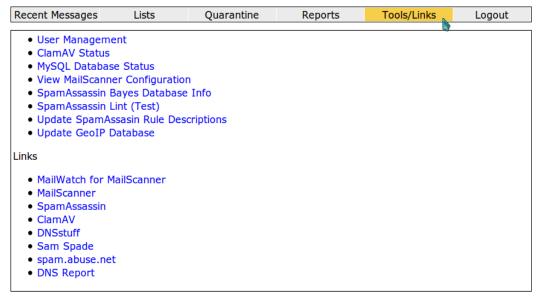
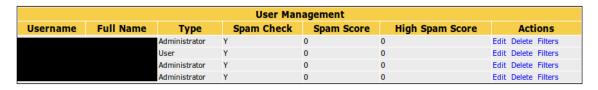


Illustration 13: Tools/Links

User Management

All user management can be done in MySpamGuard Console at Tools/Links under **User Management** section. Click at the User Management will show latest user and their role in the system.



New User

Illustration 14: User Management

Administrators have the privilege to perform actions as listed in the Actions such as editing, deleting or filtering for existing user, and aside from that, they also have the privilege to create new users for the system.

To create new user for the system, click at button **New User** under the User Management box.



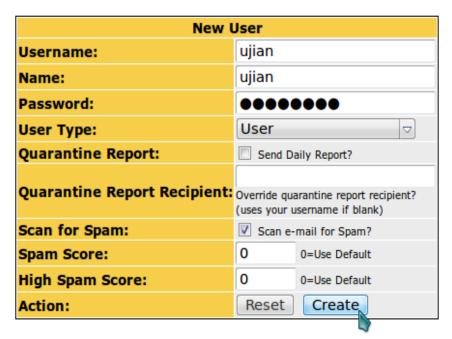


Illustration 15: New User box

Fill in the field required such as **Username**, **Name** and **Password** for the new user. Administrators has to decide the user role/permission within the system. New roles can be added in the **User Type**.

Next, click on **Create** to create new user for the system.

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 -h 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 at least once a month to download the latest spamassassin rules.