

LAPORAN RESMI

Praktikum 12

WORKSHOP ADMINISTRASI & MANAJER JARINGAN



Disusun oleh :

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2 D4 Teknik Informatika A

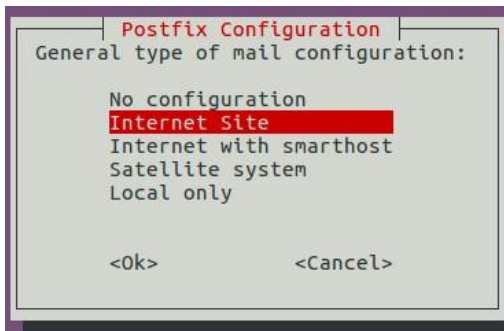
Mailing List

A. Instalasi Mail Server

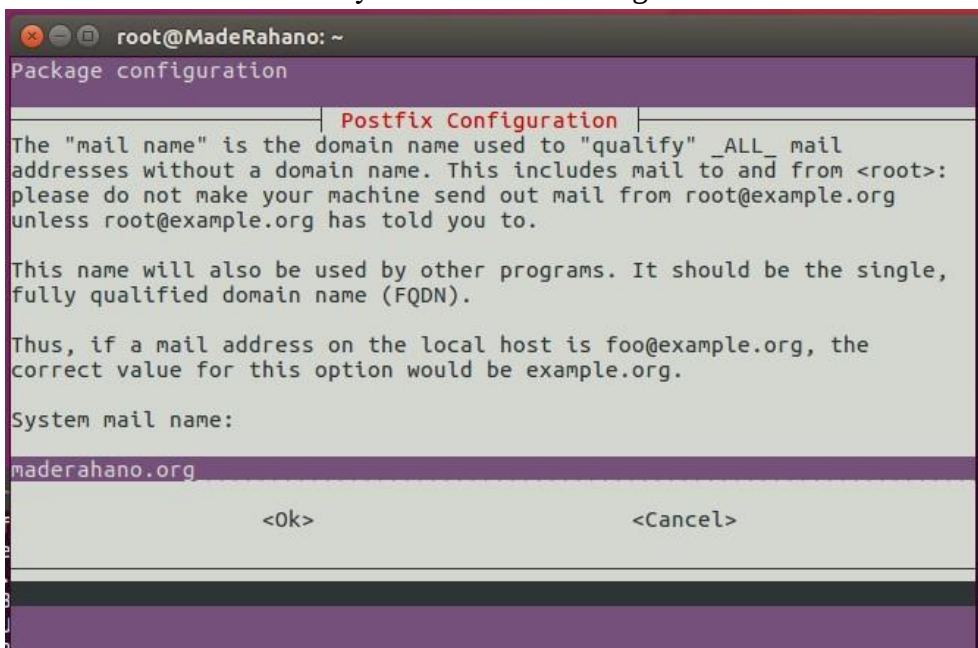
1. Instalasi Mail Transport Agent (MTA) postfix

```
root@MadeRahano: ~
root@MadeRahano:~# apt-get install postfix
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  procmail postfix-mysql postfix-pgsql postfix-ldap
  postfix-pcre sasl2-bin dovecot-common postfix-cdb postfix-doc
The following NEW packages will be installed:
  postfix
0 upgraded, 1 newly installed, 0 to remove and 178 not upgraded.
Need to get 1.152 kB of archives.
After this operation, 3.697 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 postfix amd64 3.1.0-3ubuntu0.4 [1.152 kB]
Fetched 1.152 kB in 4s (236 kB/s)
Preconfiguring packages ...
Selecting previously unselected package postfix.
(Reading database ... 179055 files and directories currently installed.)
Preparing to unpack .../postfix_3.1.0-3ubuntu0.4_amd64.deb ...
Unpacking postfix (3.1.0-3ubuntu0.4) ...
Processing triggers for libc-bin (2.23-0ubuntu11.2) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for ufw (0.35-0ubuntu2) ...
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.28) ...
```

2. Pilih “Internet Site”



3. Masukkan domain maillist yaitu “maderahano.org”.



4. Cek port dari MTA

```
root@MadeRahano: ~
root@MadeRahano:~# netstat -npltu | grep master
tcp        0      0 0.0.0.0:25          0.0.0.0:*        LISTEN      12615/master
tcp6       0      0 :::25             :::*              LISTEN      12615/master
root@MadeRahano:~#
```

B. Instalasi Mailman

1. Instalasi paket mailman

```
root@MadeRahano: ~
Get:2 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 mailman amd64 1:2.1.20-1ubuntu0.6 [4.234 kB]
Fetched 4.319 kB in 46s (92,2 kB/s)
Preconfiguring packages ...
Selecting previously unselected package python-dnspython.
(Reading database ... 181478 files and directories currently installed.)
Preparing to unpack .../python-dnspython_1.12.0-1_all.deb ...
Unpacking python-dnspython (1.12.0-1) ...
Selecting previously unselected package mailman.
Preparing to unpack .../mailman_1%3a2.1.20-1ubuntu0.6_amd64.deb ...
Unpacking mailman (1:2.1.20-1ubuntu0.6) ...
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.28) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up python-dnspython (1.12.0-1) ...
Setting up mailman (1:2.1.20-1ubuntu0.6) ...
Looking for enabled languages (this may take some time) ... done.
Installing site language en ..... done.
Configuring mailman for domain maderahano.org ...
Upgrading from version 0x0 to 0x20114f0
getting rid of old source files
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.28) ...
```

2. Pilih bahasa

```
root@MadeRahano: ~
Package configuration

Configuring mailman

For each supported language, Mailman stores default language specific texts in /etc/mailman/LANG/ giving them
conffile like treatment with the help of ucf. This means approximately 150kB for each supported language on
the root file system.

If you need a different set of languages at a later time, just run dpkg-reconfigure mailman.

NOTE: Languages enabled on existing mailing lists are forcibly re-enabled when deselected and mailman needs
at least one language for displaying its messages.

Languages to support:

[ ] de (German)
[*] en (English)
[ ] es (Spanish)

<Ok>
```

3. Konfigurasi mailman, hapus komen “#” untuk parameter MTA=’Postfix’

```
root@MadeRahano: ~
GNU nano 2.5.3 File: /etc/mailman/mm_cfg.py Modified

#-----
# Uncomment this if you configured your MTA such that it
# automatically recognizes newly created lists.
# (see /usr/share/doc/mailman/README.Ext4.Debian or
# /usr/share/mailman/postfix-to-mailman.py)
# MTA=None # Misnomer, suppresses alias output on newlist

#-----
# Uncomment if you use Postfix virtual domains (but not
# postfix-to-mailman.py), but be sure to see
# /usr/share/doc/mailman/README.Debian first.
MTA='Postfix'

#-----
# Uncomment if you want to filter mail with SpamAssassin. For
# more information please visit this website:
# http://www.jamesh.id.au/articles/mailman-spamassassin/
# GLOBAL_PIPELINE.insert(1, 'SpamAssassin')

# Note - if you're looking for something that is imported from m$
# didn't find it above, it's probably in /usr/lib/mailman/Mailma$

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter
```

4. Membuat group mailman

```
root@MadeRahano: ~
root@MadeRahano:~# newlist mailman
Enter the email of the person running the list: coba@maderahano.org
Initial mailman password:
Hit enter to notify mailman owner...

root@MadeRahano:~#
```

5. Start daemon mailman

```
root@MadeRahano: ~
root@MadeRahano:~# service mailman start
root@MadeRahano:~#
```

6. Aktifkan modul cgi pada apache2 dan restart apache2

```
root@MadeRahano: ~
root@MadeRahano:~# a2enmod cgi
AH00558: apache2: Could not reliably determine the server's fully
qualified domain name, using 202.3.218.138. Set the 'ServerName' d
irective globally to suppress this message
Enabling module cgi.
To activate the new configuration, you need to run:
    service apache2 restart
root@MadeRahano:~# service apache2 restart
```

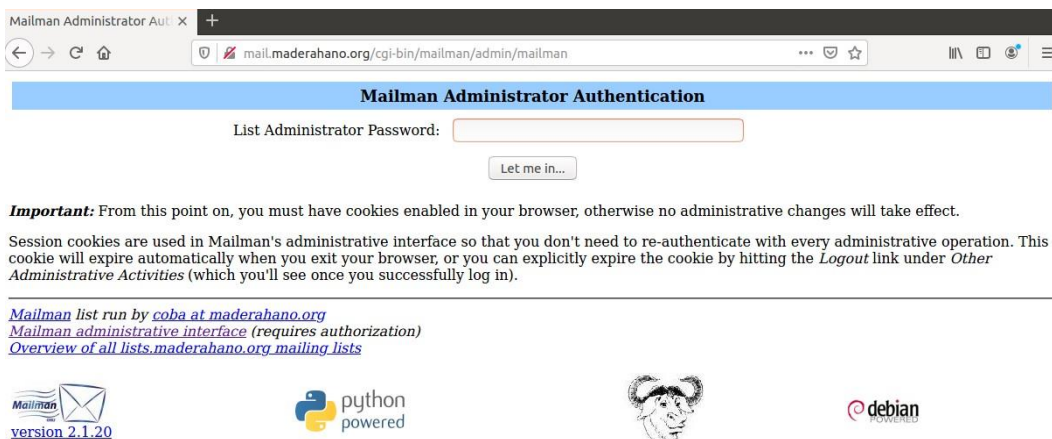
7. Menghubungkan Interface Mailman dengan Apache2

```
root@MadeRahano: /etc/apache2/sites-available
root@MadeRahano:~# cp /etc/mailman/apache.conf /etc/apache2/sites-available/mailman.conf
root@MadeRahano:~# cd /etc/apache2/sites-available
root@MadeRahano:/etc/apache2/sites-available# a2ensite mailman.conf
Enabling site mailman.
To activate the new configuration, you need to run:
    service apache2 reload
```

8. Reload apache2

```
root@MadeRahano:/etc/apache2/sites-available# service apache2 reload
root@MadeRahano:/etc/apache2/sites-available#
```

9. Cek di browser



10. Menambahkan maillist baru yaitu siswa

```
root@MadeRahano: ~
root@MadeRahano:~# newlist siswa
Enter the email of the person running the list: siswa@maderahano.org
Initial siswa password:
Hit enter to notify siswa owner...

root@MadeRahano:~#
```

11. Integrasikan mailman dengan postfix

```
GNU nano 2.5.3      File: /etc/postfix/main.cf      Modified

# Uncomment the next line to generate "delayed mail" warnings
#delay_warning_time = 4h

readme_directory = no

# TLS parameters
smtpd_tls_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
smtpd_tls_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
smtpd_use_tls=yes
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache

# See /usr/share/doc/postfix/TLS_README.gz in the postfix-doc package for
# information on enabling SSL in the smtp client.

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = MadeRahano
alias_maps = hash:/etc/aliases, hash:/var/lib/mailman/data/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = maderahano.org, mail.maderahano.org, lists.maderahano.org, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 10.0.2.6/24
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
home_mailbox = Maildir/

^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify     ^G Cur Pos     ^Y Prev Page
^X Exit          ^R Read File    ^M Replace      ^U Uncut Text  ^T To Spell   ^_ Go To Line   ^V Next Page
```

12. Restart postfix

```
root@MadeRahano: ~  
root@MadeRahano:~# systemctl restart postfix  
root@MadeRahano:~#
```

13. Login sebagai mailist siswa dan tambahkan member baru yaitu agus, anton, toni, dan tono

Siswa Administration (M X)

mail.maderahano.org/cgi-bin/mailman/admin/siswa/members/add

Membership Management... Section

- General Options
- Passwords
- Language options
- Membership Management...
 - Membership List
 - [Mass Subscription]**
 - Mass Removal
 - Address Change
 - Non-digest options
 - Digest options

- Privacy options...
- Bounce processing
- Archiving Options
- Mail<->News gateways
- Auto-responder
- Content filtering
- Topics

- Tend to pending moderator requests
- Go to the general list information page
- Edit the public HTML pages and text files
- Go to list archives
- Logout**

Make your changes in the following section, then submit them using the *Submit Your Changes* button below.

Mass Subscriptions

Subscribe these users now or invite them? ☒ Subscribe ☐ Invite

Send welcome messages to new subscribers? ☐ No ☒ Yes

Send notifications of new subscriptions to the list owner? ☒ No ☐ Yes

Enter one address per line below...

```
agus@maderahano.org  
anton@maderahano.org  
toni@satryaniwidhi.org  
tono@satryaniwidhi.org
```

...or specify a file to upload: No file selected.

Below, enter additional text to be added to the top of your invitation or the subscription notification. Include at least one blank line at the end...

14. Member pada mailist sukses ditambahkan

Make your changes in the following section, then submit them using the *Submit Your Changes* button below.

Membership List

Find member ([help](#)):

[Click here to include the legend for this table.](#)

4 members total										
unsub	member address member name	mod	hide	nomail [reason]	ack	not metoo	nodupes	digest	plain	language
☐	agus@maderahano.org	☐	☐	☐	☐	☐	☒	☐	☒	English (USA) ▾
☐	anton@maderahano.org	☐	☐	☐	☐	☐	☒	☐	☒	English (USA) ▾
☐	toni@satryaniwidhi.org	☐	☐	☐	☐	☐	☒	☐	☒	English (USA) ▾
☐	tono@satryaniwidhi.org	☐	☐	☐	☐	☐	☒	☐	☒	English (USA) ▾

C. Uji Coba

[Message List](#) | [Unread](#) | [Delete](#) | [Edit Message as New](#) | [Previous](#) | [Next](#) | [Forward](#) | [Forward as Attachment](#) | [Reply](#) | [Reply All](#)

Subject: tes ke semua siswa
From: agus@maderahano.org
Date: Tue, June 29, 2021 1:14 pm
To: siswa@maderahano.org
Priority: Normal
Options: [View Full Header](#) | [View Printable Version](#) | [Download this as a file](#)

halo perkenalkan nama saya agus, salam kenal untuk semua siswa

SquirrelMail 1.4.23 [SVN] x +

mail.maderahano.org/squirrelmail/src/webmail.php

Folders
Last Refresh: Tue, 1:17 pm (Check mail)
- INBOX (3)
Drafts
Sent
Trash

Current Folder: **INBOX** [Sign Out](#)
[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [SquirrelMail](#)

[Toggle All](#) Viewing Messages: 1 to 4 (4 total)

Move Selected To: INBOX

Transform Selected Messages:

☐	From	Date	Subject
☐	agus@maderahano.org	1:15 pm	[Siswa] tes ke semua siswa
☐	siswa-request@lists.maderahano.org	2:23 am	welcome to the "Siswa" mailing list
☐	agus@maderahano.org	2:23 am	[Siswa] Kirim ke semua Siswa dari Server MadeRahan...
☐	Mail Delivery System	2:23 am	Undelivered Mail Returned to Sender

[Toggle All](#) Viewing Messages: 1 to 4 (4 total)

SquirrelMail 1.4.23 [SVN] x +

mail.satryaniwidhi.org/squirrelmail/src/webmail.php

Folders
Last Refresh: Tue, 1:15 pm (Check mail)
- INBOX (1)
Drafts
Sent
Trash

Current Folder: **INBOX** [Sign Out](#)
[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [SquirrelMail](#)

[Toggle All](#) Viewing Messages: 1 to 2 (2 total)

Move Selected To: INBOX

Transform Selected Messages:

☐	From	Date	Subject
☐	agus@maderahano.org	1:15 pm	[Siswa] tes ke semua siswa
☐	agus@maderahano.org	1:12 pm	tes ke domain lain

[Toggle All](#) Viewing Messages: 1 to 2 (2 total)

SquirrelMail 1.4.23 [SVN] x +

mail.satryaniwidhi.org/squirrelmail/src/webmail.php

Folders
Last Refresh: Tue, 1:20 pm (Check mail)
- INBOX (1)
Drafts
Sent
Trash

Current Folder: **INBOX** [Sign Out](#)
[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [SquirrelMail](#)

[Toggle All](#) Viewing Message: 1 (1 total)

Move Selected To: INBOX

Transform Selected Messages:

☐	From	Date	Subject
☐	agus@maderahano.org	1:15 pm	[Siswa] tes ke semua siswa

[Toggle All](#) Viewing Message: 1 (1 total)

D. Spam Assassin

1. Instalasi Paket spamassassin spamc

```
root@MadeRahano: ~  
root@MadeRahano:~# apt-get install spamassassin spamc  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  courier-authdaemon courier-authlib courier-authlib-userdb courier-base  
  expect gamin libgamin0 tcl-expect  
Use 'apt autoremove' to remove them.  
The following additional packages will be installed:  
  liberror-perl libmail-spf-perl libnetaddr-ip-perl libsys-hostname-long-perl  
  re2c sa-compile  
Suggested packages:  
  razor libdbi-perl pyzor libmail-dkim-perl libencode-detect-perl  
The following NEW packages will be installed:  
  liberror-perl libmail-spf-perl libnetaddr-ip-perl libsys-hostname-long-perl  
  re2c sa-compile spamassassin spamc  
0 upgraded, 8 newly installed, 0 to remove and 39 not upgraded.  
Need to get 1.608 kB of archives.  
After this operation, 5.533 kB of additional disk space will be used.  
Do you want to continue? [Y/n] Y  
Get:1 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 liberror-perl all 0.17-1.2 [19,6 kB]  
Get:2 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 libnetaddr-ip-perl amd64 4.078+dfsg-1build1 [81,2 kB]  
Get:3 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 libmail-spf-perl all 2.9.0-4 [115 kB]  
Get:4 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 libsys-hostname-long-perl all 1.5-1 [11,7 kB]
```

2. Tambahkan user 'spamd --disabled-login'

```
root@MadeRahano: ~  
root@MadeRahano:~# adduser spamd --disabled-login  
Adding user `spamd' ...  
Adding new group `spamd' (1005) ...  
Adding new user `spamd' (1005) with group `spamd' ...  
Creating home directory `/home/spamd' ...  
Copying files from `/etc/skel' ...  
Changing the user information for spamd  
Enter the new value, or press ENTER for the default  
  Full Name []:  
  Room Number []:  
  Work Phone []:  
  Home Phone []:  
  Other []:  
Is the information correct? [Y/n] Y  
root@MadeRahano:~#
```

3. Konfigurasi file yang berada di 'etc/default/spamassassin'

```
root@MadeRahano: ~  
GNU nano 2.5.3 File: /etc/default/spamassassin Modified  
  
# /etc/default/spamassassin  
# Duncan Findlay  
  
# WARNING: please read README.spamd before using.  
# There may be security risks.  
  
# If you're using systemd (default for jessie), the ENABLED setting is  
# not used. Instead, enable spamd by issuing:  
# systemctl enable spamassassin.service  
# Change to "1" to enable spamd on systems using sysvinit:  
ENABLED=1  
  
# Options  
# See man spamd for possible options. The -d option is automatically added.  
  
# SpamAssassin uses a preforking model, so be careful! You need to  
# make sure --max-children is not set to anything higher than 5,  
# unless you know what you're doing.  
  
SAHOME="/var/log/spamassassin/"  
OPTIONS="--create-prefs --max-children 5 --username spamd --helper-home-dir /home/spamd/ -s /home/spamd/spamd.log"  
OPTIONS="--create-prefs --max-children 5 --helper-home-dir"  
  
# Pid file  
# Where should spamd write its PID to file? If you use the -u or  
# --username option above, this needs to be writable by that user.  
# Otherwise, the init script will not be able to shut spamd down.  
PIDFILE="/var/run/spamd.pid"  
  
# Set nice level of spamd  
#NICE="--nicelevel 15"  
  
# Cronjob  
# Set to anything but 0 to enable the cron job to automatically update  
# spamassassin's rules on a nightly basis  
CRON=1  
  
^G Get Help ^O Write Out ^W Where Is ^X Cut Text ^J Justify ^C Cur Pos ^V Prev Page  
^X Exit ^R Read File ^A Replace ^U Uncut Text ^T To Spell ^_ Go To Line ^N Next Page
```

4. Aktifkan service spamassassin dengan menggunakan perintah ini

```
root@MadeRahano: ~  
root@MadeRahano:~# systemctl enable spamassassin.service  
Synchronizing state of spamassassin.service with SysV init with  
/lib/systemd/systemd-sysv-install...  
Executing /lib/systemd/systemd-sysv-install enable spamassassin  
root@MadeRahano:~#
```

5. Aktifkan rule spamassassin yang berada di '/etc/spamassassin/local.cf'

```
root@MadeRahano: ~
GNU nano 2.5.3      File: /etc/spamassassin/local.cf      Modified

# This is the right place to customize your installation of SpamAssassin.
#
# See 'perldoc Mail::SpamAssassin::Conf' for details of what can be
# tweaked.
#
# Only a small subset of options are listed below
#
#####

# Add *****SPAM***** to the Subject header of spam e-mails
#
rewrite_header Subject *****SPAM*****

# Save spam messages as a message/rfc822 MIME attachment instead of
# modifying the original message (0: off, 2: use text/plain instead)
#
# report_safe 0

# Set which networks or hosts are considered 'trusted' by your mail
# server (i.e. not spammers)
#
# trusted_networks 212.17.35.

# Set file-locking method (flock is not safe over NFS, but is faster)
#
# lock_method flock

# Set the threshold at which a message is considered spam (default: 5.0)
#
required_score 5.0

# Use Bayesian classifier (default: 1)
#
use_bayes 1

# Bayesian classifier auto-learning (default: 1)
#
bayes_auto_learn 1

^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify
^X Exit          ^R Read File     ^_ Replace       ^U Uncut Text    ^T To Spell
```

6. Konfigurasi pada file '/etc/postfix/master.cf'

```
root@MadeRahano: ~
GNU nano 2.5.3      File: /etc/postfix/master.cf      Modified

#
# Postfix master process configuration file. For details on the format
# of the file, see the master(5) manual page (command: "man 5 master" or
# on-line: http://www.postfix.org/master.5.html).
#
# Do not forget to execute "postfix reload" after editing this file.
#
# =====
# service type private unpriv chroot wakeup maxproc command + args
#          (yes)   (yes)   (no)   (never) (100)
# =====
smtp      inet  n       -       -       -       -       smtpd -o content_filter=spamassassin
#smtp     inet  n       -       y       -       1       postscreen
#smtpd    pass  -       -       y       -       -       smtpd
#dnsblog  unix  -       -       y       -       0       dnsblog
#tlsproxy unix  -       -       y       -       0       tlsproxy
#submission inet n       -       y       -       -       smtpd
spamassassin unix  -       n       n       -       -       pipe
    user=spamd argv=/usr/bin/spamc -f -e
    /usr/sbin/sendmail -oi -f ${sender} ${recipient}

^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify      ^C Cur Pos
^X Exit          ^R Read File     ^_ Replace       ^U Uncut Text    ^T To Spell     ^_ Go To Line
```

7. Restart service untuk postfix dan spamassassin

```
root@MadeRahano: ~
root@MadeRahano:~# systemctl restart postfix.service
root@MadeRahano:~# systemctl start spamassassin.service
^[[A^[[Broot@MadeRa
```

8. Uji coba spamassassin

SquirrelMail 1.4.23 [SVN] — Mozilla Firefox

SquirrelMail 1.4.23 [SVN] x +

mail.maderahano.org/squirrelmail/src/webmail.php

Folders
Last Refresh:
Tue, 11:06 pm
(Check mail)

- INBOX (7)**
- Drafts
- Sent
- Trash

Current Folder: **INBOX**

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [Sign Out](#) [SquirrelMail](#)

To:

Cc:

Bcc:

Subject: TES SPAM

Priority: Receipt: ☐ On Read ☐ On Delivery

XJS*C4JDBQADN1.NSBN3*2IDNEN*STURE-STANDARD-ANTI-UBE-TEST-EMAIL*C.34X

Attach: No file selected. (max. 2 M)

Current Folder: **INBOX** [Sign Out](#)

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [SquirrelMail](#)

[Toggle All](#) Viewing Messages: **1 to 12 (12 total)**

Move Selected To:

Transform Selected Messages:

From	Date	Subject
☐ anton@maderahano.org	11:09 pm	+ *****SPAM***** [Siswa] *****SPAM***** TES SPAM
☐ agus@maderahano.org	10:54 pm	+ *****SPAM***** kirim file
☐ agus@maderahano.org	10:53 pm	+ *****SPAM***** [Siswa] *****SPAM***** TES
☐ agus@maderahano.org	10:52 pm	+ *****SPAM***** tes spam lagi
☐ agus@maderahano.org	10:51 pm	tes spam
☐ agus@maderahano.org	10:49 pm	[Siswa] tes spam
☐ tono@satryaniwidhi.org	10:45 pm	[Siswa] tes
☐ tono@satryaniwidhi.org	10:43 pm	[Siswa] tes
☐ tono@satryaniwidhi.org	10:43 pm	TES SPAM
☐ toni@satryaniwidhi.org	1:23 pm	[Siswa] tes ke domain lain dari server SatryaniWid...
☐ agus@maderahano.org	1:15 pm	[Siswa] tes ke semua siswa
☐ agus@maderahano.org	1:12 pm	tes ke domain lain

[Toggle All](#) Viewing Messages: **1 to 12 (12 total)**