
Winbind Virtual Users, Postfix, Spamassassin, Procmal, SquirrelMail & Dovecot

(Wednesday, 03 May 2006) - Contributed by Paul Matthews - Last Updated (Saturday, 03 June 2006)

This will explain how-to setup, Winbind to authenticate against Active directory to use Virtual Users, Postfix as the MTA, Spamassassin & Procmal as the spam agent, SquirrelMail as the MUA and the autosubscribe plugin to hold all the junk mail & Dovecot as the imap server.

This is something I have just had to setup, it's mainly parts from other how-to's all put into one.

Name: Dovecot HomePage: <http://dovecot.org/> Fuction: Dovecot is an open source IMAP and POP3 server for Linux/UNIX-like systems, written with security primarily in mind.

Name: PostfixHomePage: <http://www.postfix.org/>Fuction: Postfix attempts to be fast, easy to administer, and secure, while at the same time being sendmail compatible enough to not upset existing users

Name: Squirrel Mail Homepage: <http://www.squirrelmail.org/>fuction: SpamAssassin is a mature, widely-deployed open source project that serves as a mail filter to identify Spam

Name: Spamassassin HomePage: <http://spamassassin.apache.org/> Fuction: SpamAssassin is a mature, widely-deployed open source project that serves as a mail filter to identify Spam

Name: ProcmalHomePage: <http://www.procmal.org/>Fuction: procmal is a set of rules for each mail that comes into the system.

1. edit the dovecot file '/etc/dovecot.conf'

```
protocols = imap
```

2. Now make the domain folder in your /home/ folder.

```
mkdir /home/DOMAIN
```

```
chown mail:mail /home/DOMAIN
```

```
chmod a+rwX /home/DOMAIN
```

3. Now edit the '/etc/dovecot.conf' file. (change the UID, GID to suit your system)

```
auth_userdb = passwd
```

```
auth_passdb = pam
```

```
default_mail_env = mbox:/home/DOMAIN/%u/mail:INBOX=/var/spool/mail/%u
```

4. set dovecot to start on boot and then start it

```
chkconfig dovecot on  
'/etc/init.d/dovecot start'
```

5. start the apache webserver next,

```
'/etc/init.d/httpd start'
```

6. make sure that squirrelmail is working properly go to the web address

```
http://ip-address-of-the-mail-server/webmail/
```

(if squirrelmail was installed at the installation of fedora this alias should already be made)

7. now it's time get winbind to authenticate against Active Directory. stop both winbind and samba services

```
'/etc/init.d/smb stop'
```

```
'/etc/init.d/winbind stop'
```

8. edit Kerberos files to have the right configuration

```
/etc/krb5.conf
```

```
[libdefaults]
```

```
default_realm = WINDOWS.SERVER.INT
```

```
[realms]
```

```
WINDOWS.SERVER.INT = {  
  kdc = mc1.windows.server.int  
  default_domain = WINDOWS.SERVER.INT  
  kpasswd_server = mc1.windows.server.int  
  admin_server = mc1.windows.server.int  
}
```

```
[domain_realm]
```

```
.windows.server.int = WINDOWS.SERVER.INT
```

9. edit Samba files to have the right configuration

```
/etc/samba/smb.conf
```

```
workgroup = server  
security = ads  
realm = WINDOWS.SERVER.INT  
encrypt passwords = yes
```

```
username map = /etc/samba/smbusers
```

```
winbind uid = 10000-20000  
winbind gid = 10000-20000  
winbind use default domain = yes  
winbind enum users = yes  
winbind enum groups = yes
```

```
template homedir = /home/%D/%U
```

10. now it's time to join the domain

```
'net ads join -U administrator -S mc1'
```

11. Now we need to edit the /etc/nsswitch.conf file

from:

```
passwd:  files  
shadow:  files  
group:   files
```

to:

```
passwd:  files winbind  
shadow:  files winbind  
group:   files winbind
```

12. now it's time to start both winbind and samba services

```
'/etc/init.d/smb start'
```

```
'/etc/init.d/winbind start'
```

13. now hopefully all that went well, to test it out lets try this comand

```
'/usr/bin/wbinfo -g'
```

this should display all the groups in your active directory structure.

14. now it is time to edit dovecot pam module

```
'nano /etc/pam.d/dovecot'
```

```
##PAM-1.0
```

```
auth    sufficient  /lib/security/$ISA/pam_unix.so likeauth nullok
auth    sufficient  pam_winbind.so
```

```
account  required   /lib/security/$ISA/pam_unix.so
account  sufficient  /lib/security/$ISA/pam_localuser.so
account  sufficient  /lib/security/$ISA/pam_succeed_if.so uid < 100 quiet
account  required   /lib/security/$ISA/pam_permit.so
```

```
password requisite  /lib/security/$ISA/pam_cracklib.so retry=3
password sufficient  /lib/security/$ISA/pam_unix.so nullok use_authok
password required    /lib/security/$ISA/pam_deny.so
```

```
session  required   /lib/security/$ISA/pam_limits.so
session  required   /lib/security/$ISA/pam_unix.so
auth     required    /lib/security/$ISA/pam_deny.so
```

15. Now lets set postfix to use procmail

```
nano /etc/postfix/main.cf
```

```
mailbox_command = /usr/bin/procmail -t /etc/procmailrc
```

16. once postfix is set start postfix

```
/etc/init.d/postfix start
```

17. now set postfix to be the default mta

```
alternatives --config mta
```

choose postfix

18. edit the /etc/skel/.procmailrc file

```
nano /etc/skel/.procmailrc
```

```
-----
LOGFILE="$HOME/procmail.log"
```

```
DROPPRIVS=yes
```

```
:0fw
| /usr/bin/spamassassin
:0
* ^X-Spam-Status: Yes
$HOME/mail/Junk
:0
* ^Subject: \[spam\]
$HOME/mail/Junk
-----
```

19. Now add the following information to the spamassassin configuration file

```
nano /etc/mail/spamassassin/local.cf
```

```
-----  
required_hits 5  
report_safe 0  
rewrite_header Subject [SPAM]  
  
# ===== Whitelist =====  
whitelist_from *@dnr.state.ak.us  
whitelist_from *@jimweller.net  
whitelist_from user@nowhere.com  
  
# ===== Extend Filter Ruleset =====  
# Filter viagra spam.  
header VIAGRA Subject =~ /viagra/i  
score VIAGRA 1.0  
  
# Filter penis spam.  
header PENIS Subject =~ /penis/i  
score PENIS 1.0  
  
-----
```

20. Now start spamassassin

```
/etc/init.d/spamassassin start
```

21. Once this is done go to the squirrelmail website and download the autosubscribe plugin.

```
http://squirrelmail.org/plugin_download.php?id=245&rev=1168
```

22. Now to install the autosubscribe plugin to create the junk mail mailbox

```
cp autosubscribe-1.0-1.4.2.tar.gz /usr/share/squirrelmail/plugins/
```

23. now unzip autosubscribe-1.0-1.4.2.tar.gz in the plugins folder

```
tar -zxvf autosubscribe-1.0-1.4.2.tar.gz
```

24. Now change into the autosubscribe directory and setup the plugin

```
cd autosubscribe
```

```
cp config_sample.php config.php
```

25. now change the following two variables to suit your system

```
nano config.php
```

```
$autosubscribe_folders='Junk';  
$autosubscribe_special_folders='Junk';
```

26. Once all that is done, install the plugin using the squirrelmail conf.pl program

```
/usr/share/squirrelmail/plugin/conf.pl
```

27. choose option 8 to install plugins

SquirrelMail Configuration : Read: config.php (1.4.0)

Main Menu --

1. Organization Preferences
2. Server Settings
3. Folder Defaults
4. General Options
5. Themes
6. Address Books (LDAP)
7. Message of the Day (MOTD)
8. Plugins
9. Database

D. Set pre-defined settings for specific IMAP servers

C. Turn color off

S Save data

Q Quit

Command >> 8

28. Now choose whatever number the autosubscribe option is to install it, in this case it is number 4

SquirrelMail Configuration : Read: config.php (1.4.0)

Plugins

Installed Plugins

1. squirreldspell
2. newmail
3. abook_group

Available Plugins:

4. autosubscribe
5. spam_buttons

R Return to Main Menu

C. Turn color off

S Save data

Q Quit

Command >> 5

29. once all that is done, save (s)

30. Now go to the squirrelmail website and download the spam_button plugin.

http://www.squirrelmail.org/plugin_view.php?id=242

31. Now to install the spam_button plugin to create the mark as junk mail button

cp spam_buttons-1.0-1.4.tar.gz /usr/share/squirrelmail/plugins/

32. now unzip spam_buttons-1.0-1.4.tar.gz in the plugins folder

tar -zxvf spam_buttons-1.0-1.4.tar.gz

33. Now change into the autosubscribe directory and setup the plugin

cd spam_buttons

cp config_sample.php config.php

34. now change the following two variables to suit your system

nano config.php

```
$is_spam_shell_command = '/usr/bin/sa-learn --spam --username=###EMAIL_ADDRESS###';  
$is_not_spam_shell_command = '/usr/bin/sa-learn --ham --username=###EMAIL_ADDRESS###';
```

35. Once all that is done, install the plugin using the squirrelmail conf.pl program

```
/usr/share/squirrelmail/plugin/conf.pl
```

36. choose option 8 to install plugins

SquirrelMail Configuration : Read: config.php (1.4.0)

Main Menu --

1. Organization Preferences
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8. Plugins
9. Database

D. Set pre-defined settings for specific IMAP servers

C. Turn color off

S Save data

Q Quit

Command >> 8

37. Now choose whatever number the spam_buttons option is to install it, in this case it is number 5

SquirrelMail Configuration : Read: config.php (1.4.0)

Plugins

Installed Plugins

1. squirreldspell
2. newmail
3. abook_group

Available Plugins:

4. autosubscribe
5. spam_buttons

R Return to Main Menu

C. Turn color off

S Save data

Q Quit

Command >> 5

38. once all that is done, save (s) and quit (q)

39. Now make sure you have restarted all your services and make sure they are all set to start on boot

```
/etc/init.d/postfix restart  
/etc/init.d/winbind restart  
/etc/init.d/smb restart  
/etc/init.d/dovecot restart
```

```
/etc/init.d/httpd restart
/etc/init.d/spamassassin restart
```

and set them all to start on boot

```
chkconfig postfix on
chkconfig winbind on
chkconfig smb on
chkconfig dovecot on
chkconfig httpd on
chkconfig spamassassin on
```

40. Once all that is done, you can run some tests to make sure it's all working ok

send an e-mail from an outside address with the subject and body
containingXJS*C4JDBQADN1.NSBN3*2IDNEN*GTUBE-STANDARD-ANTI-UBE-TEST-EMAIL*C.34X

that should be maked as spam

add an outside email to the black list and then e-mail from the outside e-mail address to your spamassassin protected mail server

```
blacklist_from *@hotmail.com
```

They should now all go into the users Junk mail box in /home/DOMAIN/username/mail/Junk

Extra Settings for Pyzor, DCC, Razor & Rules Du Jour

Fighting Spam With SpamAssassin, Pyzor, DCC, Razor & Rules Du Jour

Extra Settings for Mailman

I use mailman as my list manager and spamassassin almost kills my server when I send an e-mail to my list, because spamassassin is trying to scan 150 e-mails at once, so this is how I avoid that.

Make this your ~/.procmailrc file, it allows anything that comes from your domain to go straight to your inbox rather than go though SpamAssassin.

This is a risk though, you might start getting spamed from your domain name and they wont get scanned, so this might not be a good idea for everyone.

```
nano /etc/skel/.procmailrc
```

```
-----
LOGFILE="$HOME/procmail.log"
```

```
DROPPRIVS=yes
```

```
:0:
* ^From:. *@mydomain\com\au
$DEFAULT
```

```
:0fw
| /usr/bin/spamassassin
:0
* ^X-Spam-Status: Yes
$HOME/mail/Junk
:0
* ^Subject: \[spam\]
$HOME/mail/Junk
-----
```

Trouble Shooting:

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[Email the Mailing List yourhowto@freelists.org](mailto:yourhowto@freelists.org)

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External Links:

<http://spamassassin.apache.org/gtube/>