SquirrelMail for Webmail

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What is Webmail?

- Webmail provides a web-based (HTTP) Mail User Agent (Front end) to access emails
- This makes webmail available anywhere which is practical for most users.
- Use the default http port 80 but can ran on other user defined ports.
- Webmail systems will access the mail server using IMAP4(s), POP3(s). Some read the files directly from the mailbox stored in Maildir format e.g Sqwebmail.



Background



- Started in 1998 by two brothers Luke and Nathan Ehresman
- Named after squirrels for their agility
- www.squirrelmail.org
- It supports IMAP and SMTP protocols and can be setup to support a wide range of MTA and implementations
- Its written in PHP



Why Squirrelmail

- Squirrelmail is stable and scales well in most environments
- Continues to have features support in plugins including password change and server-side filters
- Its fast with options header caching and supports server side indexing - works well with Dovecot and Cyrus IMAP
- It has a light interface due to php
- Additional resources would be required to make it scale for large scale implementations

Summary on Apache

- In configuring apache the configuration files are in /etc/apache2/
 - Uncommenting all the required includes are done here
 - This file is also responsible for loading library module e.g php
 - Additional system wide configurations are done here.
 - More specific configs should be done in included files and folders
- Virtual-hosts are defined in the /etc/apache2/ sites-available/
- Installation of Squirrelmail will require PHP to be preinstalled.



Configuring Squirrelmail

- SquirrelMail has its own configure options
 - afnog@pcXX:~\$ sudo squirrelmail-configure

```
6 6 6
                            Terminal - ssh - 80x24
SquirrelMail Configuration : Read: config default.php (1.4.0)
Main Menu --
1. Organization Preferences
Server Settings
Folder Defaults
4. General Options
5. Themes
6. Address Books
Message of the Day (MOTD)
8. Plugins
  Database
10. Languages
D. Set pre-defined settings for specific IMAP servers
   Turn color on
   Save data
   Quit
Command >>
```



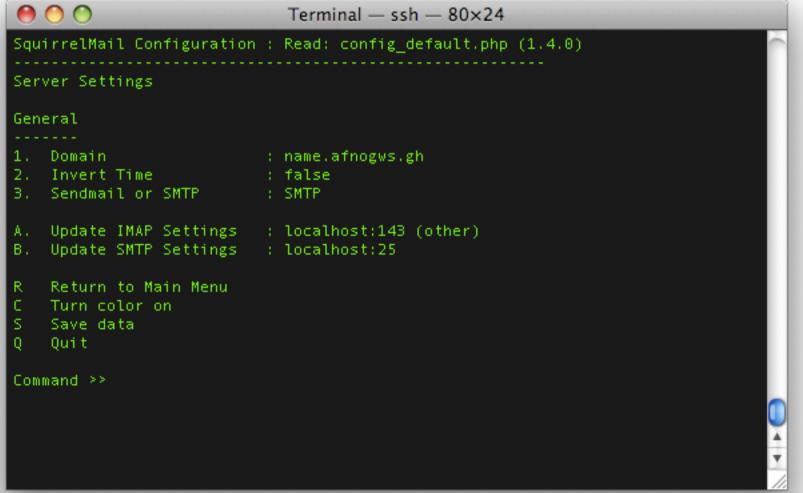
1. Organizational Preferences

```
\bigcirc
                            Terminal - ssh - 80×24
SquirrelMail Configuration : Read: config default.php (1.4.0)
Organization Preferences
1. Organization Name : AFNOG
2. Organization Logo : ../images/sm_logo.png
3. Org. Logo Width/Height: (308/111)
4. Organization Title : AFNOG Webmail Service
5. Signout Page
6. Top Frame : _top
7. Provider link : http://www.afnog.org/
8. Provider name : AFNOG
  Return to Main Menu
 Turn color on
  Save data
   Ouit
Command >>
```



2. Server Settings

 Select 2 for Server settings and 1 to change domain. Domain is "_____.afnog.guru"





2 a. Set Predefined IMAP Servers

- Select A for option to set the type of Server
- Type "dovecot" and press enter
- Press S to save and R to return to previous menu

```
6 0 0
                                      Terminal - ssh - 98×35
 quirrelMail Configuration : Read: config.php
While we have been building SquirrelMail, we have discovered some
preferences that work better with some servers that don't work so
well with others. If you select your IMAP server, this option will
set some pre-defined settings for that server.
Please note that you will still need to go through and make sure
everything is correct. This does not change everything. There are
only a few settings that this will change.
Please select your IMAP server:
              = Binc IMAP server
               = Courier IMAP server
               = Cyrus IMAP server
               = Dovecot Secure IMAP server
               = Microsoft Exchange IMAP server
   hmailserver = hMailServer
               = Mac OS X Mailserver
   mercury32
              = Mercury/32
               = University of Washington's IMAP server
               = Do not change anything
Command >>
```



4. General Options

- From the main menu Press 4 to go to "General Options"
- Select option 1 for Data Directory
- Type the path of the data directory created earlier i.e /var/squirrelmail/data
- Press enter
- Press option 2 for Attachments Directory
- Type the path of the attachments directory created earlier i.e /var/squirrelmail/attachment
- Press "s" to save and "r" to return to main menu



Other Squirrelmail Options

- Folder options: directory default features and behavior of squirrelmail
- General Options: Server side activities and optimizations
- Themes: Look and Feel
- Addressbook: Create or configure LDAP AB
- Plugins: Install additional plugin features
- Database: Define database for AddrBook
- Languages: Change Languages



Configuring Squirrelmail as Apache Virtual-Host

- Squirrelmail is a web-mail service
- First step to do is add the virtual hosts on apache.
- Open /etc/apache2/sites-available/squirrelmail.conf and add the following lines.

```
<VirtualHost *:80>
   ServerAdmin afnog@pcXX.sse.ws.afnog.org
   DocumentRoot /usr/share/squirrelmail
   ServerName webmail.____.afnog.guru
   ErrorLog /var/log/mail-error_log
   CustomLog /var/log/mail-access_log common
```

- </VirtualHost>
- Save the file and close
- Restart apache
 - \$ sudo service apache2 restart



DNS Entry for Webmail

- A Resource Record for "webmail" subdomain should be created in your DNS Servers
- Edit /var/cache/bind/master/____.afnog.guru
- Add an Address Record (A) and (AAAA) for webmail.____.afnog.guru pointing to the IPv4 and IPv6 addresses assigned to the PC/ virtual machine
- Update the serial number and restart Bind sudo rndc reload



Accessing Webmail

- Open the browser as per the configuration it should be http://webmail._____.afnog.guru
- Logon using the system username and password (user afnog/pass afnog)



Happy Webmailing



Additional Information



SSL Mod-rewrite for Squirrelmail

- Squirrelmail is a web-mail service as such for security reasons its important to use secure access https
- Since we require and want to force everyone to go through an SSL interface we set it up as follows;

```
<VirtualHost *:80>
ServerName webmail.XXX.bogus.gh
RewriteEngine on
RewriteCond %{HTTPS} ^off$
RewriteCond %{HTTP_HOST} (.*)
RewriteRule ^(.*)/? https://%1/$1 [L,R]
</VirtualHost>
```

 CAVEAT: SSL does not work in Name Based Virtual Hosting environment only in an IP Based Virtual Hosting. On a shared server it will generate name warnings

