

Installing SquirrelMail on EnGarde Secure Linux HOWTO

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Revision History

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Chapter 1. Introduction

This document outlines how to install and configure SquirrelMail on EnGarde Secure Linux 3.0. It assumes that you have already performed the PHP preparatory steps described in the document PHP Installation for Applications on EnGarde Secure Linux 3.0 (<http://www.engardelinux.org/doc/howtos/install-php-apps/install-php-apps/index.shtml>). You must complete this before proceeding.

Chapter 2. SELinux Configuration

Before you can use SquirrelMail on EnGarde Secure Linux (in Enforcing mode) you'll need to toggle a boolean which allows the Apache webserver to communicate with the mail server ports. You may skip this section if you are not running your machine in Enforcing mode.

The first thing you need to do is transition over to *sysadm_r* and see what the current setting is:

```
[root@machine]# newrole -r sysadm_r
Authenticating root.
Password:
[root@machine]# sestatus -b | grep httpd_webmail
httpd_webmail          inactive
```

In the example above the *httpd_webmail* boolean is inactive (the default). Activate this boolean either in WebTool or use the *setsebool* command to enable this boolean:

```
[root@machine]# setsebool httpd_webmail true
[root@machine]# sestatus -b | grep httpd_webmail
httpd_webmail          active
```

When this boolean is active SquirrelMail will be able to properly function.

Please note that this change will only survive until the next reboot. To make your change permanent (and persistent across reboots) open the file **/etc/selinux/engarde/booleans** in your favorite text editor, locate the *httpd_webmail* line, and change the 0 (inactive) to a 1 (active).

SquirrelMail will now properly work on EnGarde Secure Linux in Enforcing mode.

Chapter 3. Setting up IMAP for SquirrelMail

SquirrelMail by default will contact the IMAP server on the localhost.

3.1. Configure xinetd

Make sure the xinetd daemon is configured to start at boot up. This is shown by the word "on" listed for init levels 3, 4, and 5 as shown below.

```
# chkconfig --list xinetd
xinetd    0:off 1:off 2:off 3:on 4:on 5:on 6:off
```

If all levels are shown as "off" then enable xinetd by running this command.

```
# chkconfig --add xinetd
```

3.2. Configure standard IMAP

Next, configure standard IMAP to listen on the local interface "127.0.0.1". First check if IMAP is currently running by

```
# chkconfig --list | grep imap
simap: on
```

The above shows that secure imap is running, this is NOT what we need, which is plain imap (non-SSL mode). To enable plain imap:

```
# cd /etc/xinetd.d
# cp -p simap imap
```

Edit the imap file using a text editor such as 'vi' and perform the following changes.

- change "service simap" to "service imap"
- change "interface = XXX.XXX.XXX.XXX" to "interface = 127.0.0.1"
- If this lines exists "disable = yes" put a "#" at the start of the line

Now we want to configure the system so this starts at bootup. Run the following command.

```
# chkconfig --add xinetd
```

Now verify that imap is in the "on" bootup state.

```
# chkconfig --list | grep imap
  simap: on
  imap: on
```

3.3. Restart xinetd

Restart xinetd daemon and check that imap (port 143) is listening on the local interface IP 127.0.0.1.

```
# /etc/init.d/xinetd restart
# netstat --inet -ltn | grep 143
tcp  0  0  127.0.0.1:143  0.0.0.0:*  LISTEN  31364/xinetd
```

This shows that imap (port 143) is listening on IP 127.0.0.1.

3.4. Allow IMAP access from 127.0.0.1

In the WebTool->System->Access Control add "127.0.0.1" for SIMAP access.

Chapter 4. Downloading and Installing the SquirrelMail Source Code

All subsequent steps must be performed as the "root" user on the server. SSH into the server as "root". You should have either the password or the passphrase from section II to do this

4.1. Download the source code

As of this writing the latest stable version of SquirrelMail is 1.4.5. Download the source tarball squirrelmail-1.4.5.tar.gz (it can be found at <http://sourceforge.net>) to the temporary directory /var/tmp.

```
# cd /var/tmp
# ls -l squirrelmail-1.4.5.tar.gz
-rw-r--r-- 1 root root 591226 2005\u201312\u201308 11:53 squirrelmail-1.4.5.tar.gz
```

4.2. Install SquirrelMail

Now unpack this tarball and move the files to the proper directory.

```
# cd /home/httpd/SSLSERVER-443/html
# tar zxvf /var/tmp/squirrelmail-1.4.5.tar.gz
# mv squirrelmail-1.4.5 webmail
```

The code is now installed.

Chapter 5. Configuring SquirrelMail

Now that SquirrelMail is installed we can configure it.

5.1. Change ownership of the files

When defining a web site in the WebTool you are required to enter a user as the "webmaster" and assign a "group" to the web site. Those identities are needed for the following. When running the following commands replace WEBMASTER with the user that has been defined as the "webmaster" and replace GROUP with the group that was use.

```
# chown -R WEBMASTER.GROUP webmail
# cd webmail
# chgrp -R webd config data
```

5.2. Create config.php with proper permissions

```
# cd config
# cp -p config_default.php config.php
```

5.3. Edit config.php

There are many options that can be modified in this file. These are the suggested bare minimum variables to change.

- Change this to your organization's name.

```
$org_name = 'YOUR_ORGANIZATION';
```

- Change this to the title you would like shown on the SquirrelMail web page.

```
$org_title = 'YOUR_TITLE $version';
```

- Change this to the mail domain that is being served by SquirrelMail.

```
$domain = 'YOUR_MAIL_DOMAIN.com';
```

- Define your SMTP server. This is the name of the server running the Postfix MTA for your mail domain. If Postfix is running on the same server as SquirrelMail then this would be 'localhost'. If it is another server then enter 'SERVERNAME.com'.

```
$smtpServerAddress = 'localhost';
```

- Define your IMAP server. We always have SquirrelMail running on the same server as IMAP so this will always be 'localhost'.

```
$imapServerAddress = 'localhost';
```

- Define the IMAP server type. The IMAP package in EnGarde Secure Community 3.0 is 'Washington University' so use 'wu' here.

```
$imap_server_type = 'wu';
```

- The only PHP configuration that will be mentioned here is the maximum allowable file size to upload. This is defined in /etc/php.ini with the variable 'upload_max_filesize' and the default is 2M. If you need to

5.4. Add Directory Index

The next step is to configure the web server to use the index.php file for indexes. To do this, log into WebTool, click the *System* menu, choose *World Wide Web Management*, then select *Edit Virtual Hosts* from the *Module* menu. Select your virtual host and you will be presented with a screen like the one in Figure 5-1.

Figure 5-1. Edit Virtual Host

EDIT VIRTUAL HOST

Here you can edit your virtual host options. You can change basic settings like the hostname, address, webmaster email, alternate server names, and the default index documents directly below.

You can create a MySQL database for this virtual host if one does not already exist, and change the password of an existing database.

Aliases will automatically map one directory to another, and redirects can be created to redirect certain URLs to another server entirely.

Finally, you can also set customized error documents for your virtual host.

Hostname	<input type="text" value="hostname"/>	Alternate Virtual Server Names	<input type="text"/>
Address	<input type="text" value="192.168.1.XX"/> ...		
Admin Email	<input type="text" value="test@test.com"/>	Directory Index Files	<input type="text" value="index.php"/>

As you can see we added *index.php* to the *Directory Index* field. After adding *index.php* click the *Save This Virtual Host* button to commit your changes.

5.5. Verify operation

Now access SquirrelMail by going to the URL <https://SERVERNAME/webmail/> and you should be presented with a SquirrelMail login page where a user with a local IMAP mail account can login and access mail.