

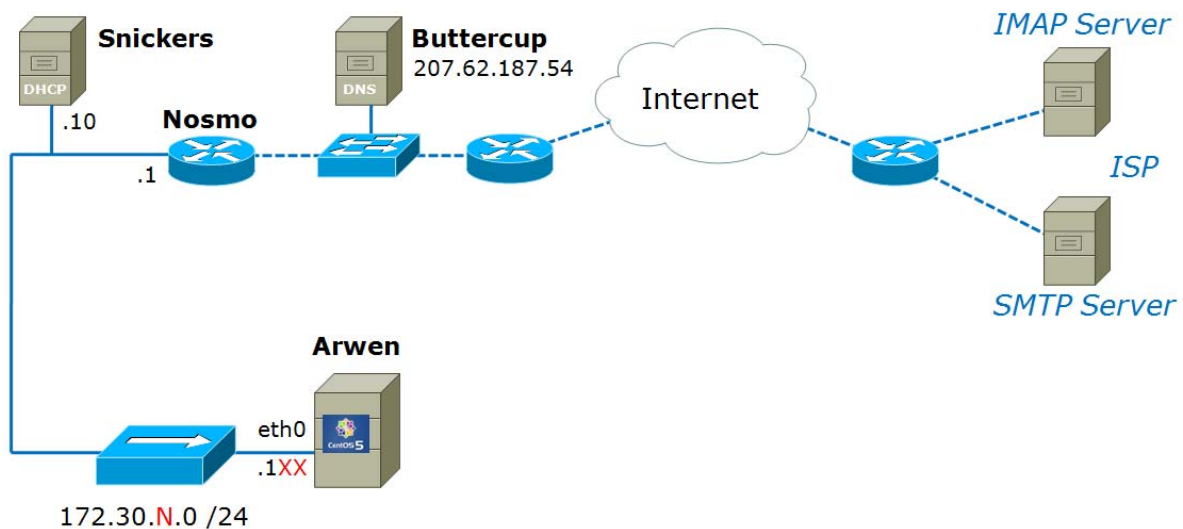
Linux Howtos

SquirrelMail Reference Implementation (132)

CIS 192 – Spring 2009

SquirrelMail Reference Implementation (132)

This Howto documents the implementation of the SquirrelMail MUA (Mail User Agent) on a CentOS 5.2 Virtual Machine. SquirrelMail will use the Apache web server to serve up the MUA user interface and a MySQL database to store the address book and user preferences. phpMyAdmin is installed for viewing the MySQL database.

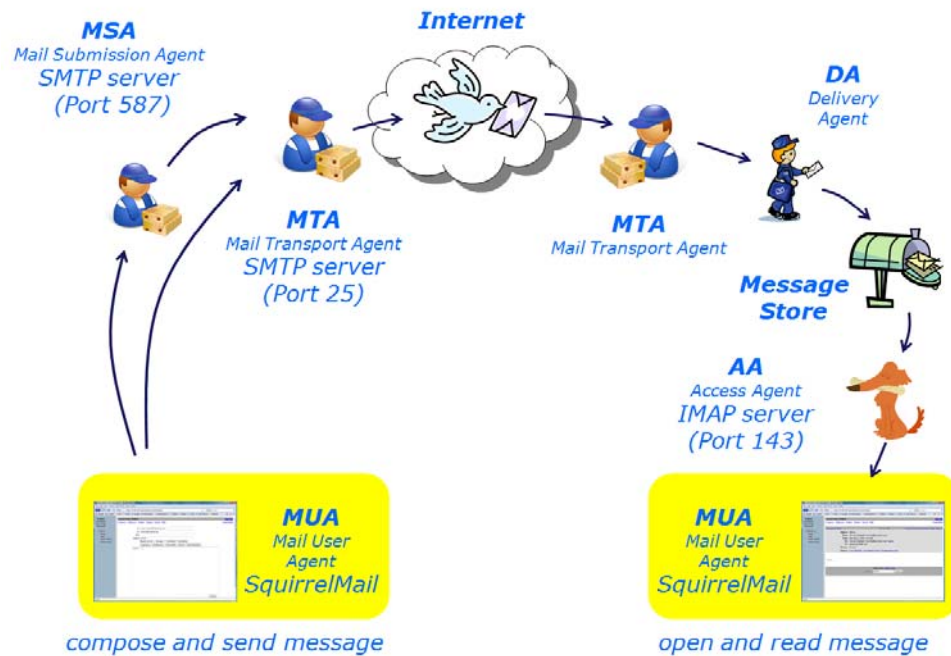


.1XX is based on your station number and the IP Table in the Appendix
 N=1 for the classroom and N=4 for the CIS lab or CTC

Supplies

VM: Arwen
 OS: CentOS 5.2
 Virtualization: VMWare Server 1.08

Arwen should be created with a default installation of CentOS 5.2 and configured to start in run level 3. VMware Tools should be installed.



Prerequisites

You must have access to a SMTP and IMAP server with a working mail user/password. This information is available from your ISP

IMAP server: _____
 username: _____
 password: _____
 SMTP server: _____

Verify the information above with the Evolution MUA (Mail User Agent) on the Arwen VM or any other MUA of your choice.

References

SquirrelMail

- <http://squirrelmail.org/index.php>

IMAP Protocol

- <http://networking.ringofsaturn.com/Protocols/imap.php>
- http://bobpeers.com/technical/telnet_imap.php

MySQL

- <http://www.opensourcehowto.org/how-to/mysql/squirrelmail-mysql-userprefs--mysql-address-book.html>
- <http://www.nparikh.org/unix/mysql.php>

phpMyAdmin

- <http://www.campworld.net/thewiki/pmwiki.php/LinuxServers/FC4BaseServer>

NIC Configuration

```
[root@arwen ~]# cat /etc/sysconfig/network
```

```
NETWORKING=yes
NETWORKING_IPV6=no
HOSTNAME=arwen.localdomain
GATEWAY=172.30.4.1
```

```
[root@arwen ~]# cat /etc/sysconfig/network-scripts/ifcfg-eth0
```

```
# Advanced Micro Devices [AMD] 79c970 [PCnet32 LANCE]
DEVICE=eth0
ONBOOT=yes
BOOTPROTO=static
HWADDR=00:0c:29:70:d5:71
IPADDR=172.30.4.107
NETMASK=255.255.255.0
BROADCAST=172.30.4.255
```

```
[root@arwen ~]# route -n
```

```
Kernel IP routing table
```

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
172.30.4.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
0.0.0.0	172.30.4.1	0.0.0.0	UG	0	0	0	eth0

```
[root@arwen ~]# ifconfig
```

```
eth0      Link encap:Ethernet  HWaddr 00:0C:29:70:D5:71
          inet addr:172.30.4.107  Bcast:172.30.4.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe70:d571/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:191 errors:0 dropped:0 overruns:0 frame:0
          TX packets:163 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:16760 (16.3 KiB)  TX bytes:21935 (21.4 KiB)
          Interrupt:177 Base address:0x1400
```

```
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:8 errors:0 dropped:0 overruns:0 frame:0
          TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:560 (560.0 b)  TX bytes:560 (560.0 b)
```

```
[root@arwen ~]# cat /etc/resolv.conf
```

```
nameserver 207.62.187.54
```

```
[root@arwen ~]# ping -c2 google.com
```

```
PING google.com (74.125.45.100) 56(84) bytes of data.
64 bytes from yx-in-f100.google.com (74.125.45.100): icmp_seq=1 ttl=244
time=53.8 ms
```

64 bytes from yx-in-f100.google.com (74.125.45.100): icmp_seq=2 ttl=244 time=92.5 ms

--- google.com ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 53.890/73.230/92.571/19.342 ms

Dreamhost.com ISP Mail server used for IMAP server:

```
[root@arwen ~]# host mail.hayrocket.com
mail.hayrocket.com has address 208.113.200.50
mail.hayrocket.com mail is handled by 0
mx2.balanced.spacey.mail.dreamhost.com.
mail.hayrocket.com mail is handled by 0
mx1.balanced.spacey.mail.dreamhost.com.
[root@arwen ~]#
```

Cruzio ISP server used for SMTP server:

```
[root@arwen ~]# host mx.cruzio.com
mx.cruzio.com is an alias for mail.cruzio.com.
mail.cruzio.com has address 63.249.95.37
[root@arwen ~]#
```

DreamHost Web Panel > Mail: Manage Email - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://panel.dreamhost.com/index.cgi?tree=mail.addresses&

Hi, Richard! (Member since March 2007) System Status | Our Blog | Support Wiki | Newsletter

Discussion Forum | Edit Profile | Logout

Current DreamHost Time: 13:01 Pacific Time

Manage Email

HELP IS ON Account Status

Email Management

Create, edit, or delete any email addresses hosted on your DreamHost account.

Note: You should always have a valid postmaster@yourdomain.com address or some domains may not accept email from you.

Email addresses

Create New Email Address Bulk-Edit Forwarding-Only Addresses

Show these domains: acsgames.com hayrocket.com simms-teach.com

Control-click for multiple
[enlarge select box](#)
[shrink select box](#)

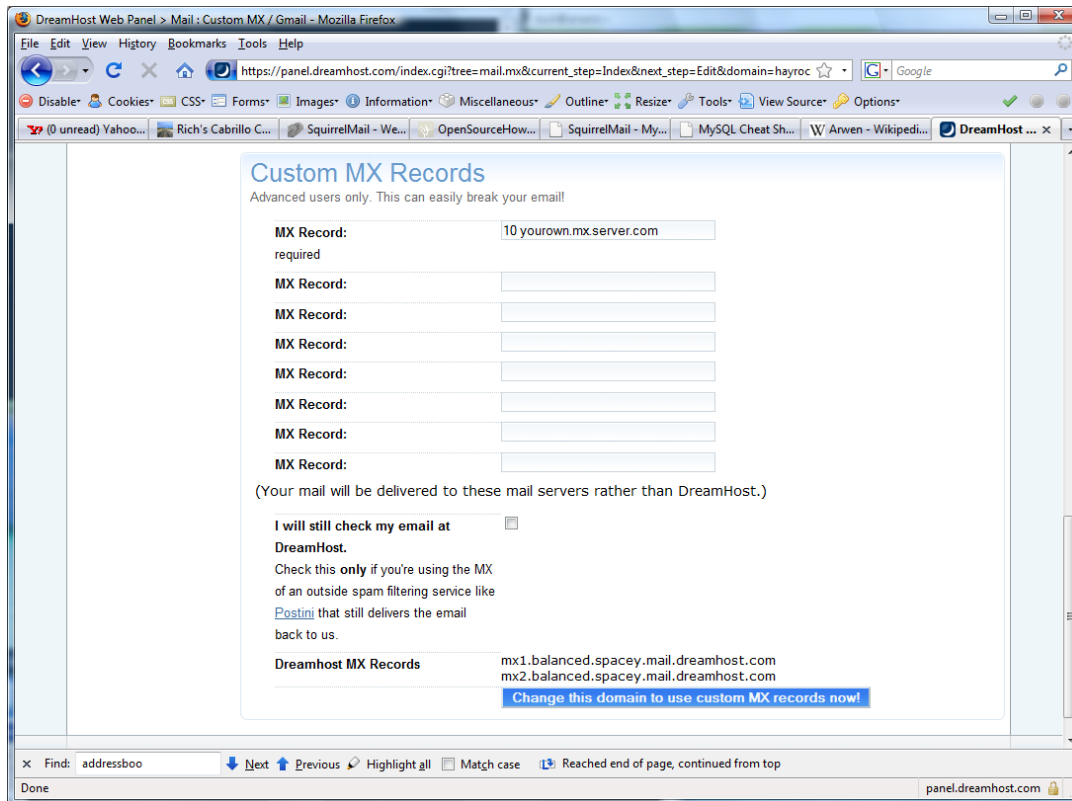
Show Selected Domains

Mailbox	Also forwards to:	Actions
arwen@hayrocket.com "Arwen" mailbox manager <10 MB / 200 MB (0%)	There are no additional forwards; messages are only delivered to this mailbox.	Edit Delete
rich@hayrocket.com "Rich Simms" mailbox manager 20689 MB / 398336 MB (5%)*	There are no additional forwards; messages are only delivered to this mailbox.	Edit Disable Delete

* includes website disk usage

Find: addressboo Next Previous Highlight all Match case Reached end of page, continued from top

Done panel.dreamhost.com



IMAP Server Test

server = mail.hayrocket.com
user = arwen@hayrocket.com
pw = **Secret**

```
[root@arwen ~]# telnet mail.hayrocket.com 143
Trying 208.113.200.50...
Connected to mail.hayrocket.com (208.113.200.50).
Escape character is '^'.
* OK [CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT
THREAD=REFERENCES SORT QUOTA IDLE STARTTLS] Courier-IMAP ready. Copyright
1998-2005 Double Precision, Inc. See COPYING for distribution information.
a001 login arwen@hayrocket.com Secret
a001 OK LOGIN Ok.
a002 list "Mail" ""
a002 OK LIST completed
a003 SELECT INBOX
* FLAGS (\Draft \Answered \Flagged \Deleted \Seen \Recent)
* OK [PERMANENTFLAGS (\* \Draft \Answered \Flagged \Deleted \Seen)] Limited
* 2 EXISTS
* 0 RECENT
* OK [UIDVALIDITY 1241196931] Ok
* OK [MYRIGHTS "acdilrsw"] ACL
a003 OK [READ-WRITE] Ok
a004 FETCH 1 full
```

```
* 1 FETCH (FLAGS () INTERNALDATE "01-May-2009 09:57:02 -0700" RFC822.SIZE
1171 ENVELOPE ("Fri, 1 May 2009 09:57:02 -0700 (PDT)" "Salsa at the Palomar"
((NIL NIL "arwen" "hayrocket.com")) ((NIL NIL "arwen" "hayrocket.com")) ((NIL
NIL "arwen" "hayrocket.com")) ((NIL NIL "arwen" "hayrocket.com")) NIL NIL NIL
"<5d005d3ae56798364bdc396b730538ea.squirrel@webmail.hayrocket.com>") BODY
("text" "plain" ("charset" "iso-8859-1") NIL NIL "8bit" 71 6))
```

a004 OK FETCH completed.

a005 FETCH 1 body[text]

```
* 1 FETCH (BODY[TEXT] {71})
```

Hi Arwen,

Interested in going Salsa dancing tonight?

- Elrond

)

```
* 1 FETCH (FLAGS (\Seen))
```

a005 OK FETCH completed.

a006 list "" ""

```
* LIST (\HasNoChildren) "." "INBOX.Drafts"
```

```
* LIST (\HasNoChildren) "." "INBOX.Trash"
```

```
* LIST (\HasNoChildren) "." "INBOX.Sent"
```

```
* LIST (\Marked \HasChildren) "." "INBOX"
```

a006 OK LIST completed

a007 status INBOX (messages)

```
* STATUS "INBOX" (MESSAGES 2)
```

a007 OK STATUS Completed.

a008 examine INBOX

```
* FLAGS (\Draft \Answered \Flagged \Deleted \Seen \Recent)
```

```
* OK [PERMANENTFLAGS ()] No permanent flags permitted
```

```
* 2 EXISTS
```

```
* 0 RECENT
```

```
* OK [UIDVALIDITY 1241196931] Ok
```

```
* OK [MYRIGHTS "acdilrsw"] ACL
```

a008 OK [READ-ONLY] Ok

a009 logout

```
* BYE Courier-IMAP server shutting down
```

a009 OK LOGOUT completed

Connection closed by foreign host.

You have new mail in /var/spool/mail/root

[root@arwen ~]#

Install Squirrel Mail

```
[root@arwen ~]# yum install squirrelmail
Loading "fastestmirror" plugin
Loading mirror speeds from cached hostfile
 * base: mirror.steadfast.net
 * updates: centos.cogentcloud.com
 * addons: mirrors.versaweb.com
 * extras: mirrors.usc.edu
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package squirrelmail.noarch 0:1.4.8-5.el5.centos.3 set to be updated
--> Processing Dependency: php >= 4.0.4 for package: squirrelmail
--> Processing Dependency: php-mbstring for package: squirrelmail
--> Running transaction check
---> Package php.i386 0:5.1.6-23.2.el5_3 set to be updated
--> Processing Dependency: php-cli = 5.1.6-23.2.el5_3 for package: php
--> Processing Dependency: libgmp.so.3 for package: php
--> Processing Dependency: php-common = 5.1.6-23.2.el5_3 for package: php
---> Package php-mbstring.i386 0:5.1.6-23.2.el5_3 set to be updated
--> Running transaction check
---> Package php-common.i386 0:5.1.6-23.2.el5_3 set to be updated
---> Package php-cli.i386 0:5.1.6-23.2.el5_3 set to be updated
---> Package gmp.i386 0:4.1.4-10.el5 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                Arch      Version           Repository        Size
=====
Installing:
 squirrelmail          noarch    1.4.8-5.el5.centos.3  updates          4.2 M
Installing for dependencies:
 gmp                   i386     4.1.4-10.el5      base              664 k
 php                   i386     5.1.6-23.2.el5_3  updates          1.1 M
 php-cli               i386     5.1.6-23.2.el5_3  updates          2.1 M
 php-common            i386     5.1.6-23.2.el5_3  updates          151 k
 php-mbstring          i386     5.1.6-23.2.el5_3  updates          994 k
=====
```

Transaction Summary

```
=====
Install      6 Package(s)
Update      0 Package(s)
Remove      0 Package(s)
=====
```

Total download size: 9.2 M

Is this ok [y/N]: y

Downloading Packages:

```
(1/6): gmp-4.1.4-10.el5.i 100% |=====| 664 kB    00:06
(2/6): php-cli-5.1.6-23.2 100% |=====| 2.1 MB   00:11
(3/6): php-common-5.1.6-2 100% |=====| 151 kB   00:00
(4/6): php-5.1.6-23.2.el5 100% |=====| 1.1 MB   00:06
```

```
(5/6): squirrelmail-1.4.8 100% |=====| 4.2 MB    00:22
(6/6): php-mbstring-5.1.6 100% |=====| 994 kB     00:05
```

```
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
```

```
Installing: php-common          ##### [1/6]
Installing: gmp                 ##### [2/6]
Installing: php-cli             ##### [3/6]
Installing: php                 ##### [4/6]
Installing: php-mbstring        ##### [5/6]
Installing: squirrelmail        ##### [6/6]
```

```
Installed: squirrelmail.noarch 0:1.4.8-5.el5.centos.3
Dependency Installed: gmp.i386 0:4.1.4-10.el5 php.i386 0:5.1.6-23.2.el5_3
php-cli.i386 0:5.1.6-23.2.el5_3 php-common.i386 0:5.1.6-23.2.el5_3 php-
mbstring.i386 0:5.1.6-23.2.el5_3
Complete!
```

```
[root@arwen ~]# rpm -qa | grep http
httpd-2.2.3-11.el5_2.centos.4
```

Check /etc/php.ini settings (<http://squirrelmail.org/docs/admin/admin-3.html>)

- **register_globals off** - This is a dangerous setting when enabled, and is not generally needed for most recent PHP applications. We no longer release security advisories for issues only exploitable with this setting turned on because it has long been a well-known weakness in PHP (and has been removed from PHP 6). Note that you can easily enable it only for a single legacy application that may require it while keeping the default off for the rest of your applications.
- **magic_quotes_{runtime, gpc, sybase} off** - SquirrelMail may work with any of these turned on, but if you experience stray backslashes in your mail or other strange behaviour, it may be advisable to turn them off.
- **file_uploads on** - This is needed if your users want to attach files to their emails.
- **safe_mode on or off** - Turning safe mode on in SquirrelMail's case is not much more secure than having it off. When it is enabled, incompatibilities with some functionality may arise (see our [safe mode notes](#)).

Check php.ini settings:

```
[root@arwen ~]# cat /etc/php.ini | grep "register_globals "
; - register_globals = Off          [Security, Performance]
; Note that register_globals is going to be deprecated (i.e., turned off
by
; register_globals to be on; Using form variables as globals can easily lead
register_globals = Off
```

```
[root@arwen ~]# cat /etc/php.ini | grep magic_quotes
; - magic_quotes_gpc = Off          [Performance]
magic_quotes_gpc = Off
```



```
magic_quotes_runtime = Off
magic_quotes_sybase = Off
```

```
[root@arwen ~]# cat /etc/php.ini | grep file_uploads
file_uploads = On
```

```
[root@arwen ~]# cat /etc/php.ini | grep "safe_mode "
safe_mode = Off
; When safe_mode is on, UID/GID checks are bypassed when
; When safe_mode is on, only executables located in the safe_mode_exec_dir
sql.safe_mode = Off
```

```
[root@arwen ~]# ls -ld /var/spool/squirrelmail/ /var/spool/squirrelmail/attach/
drwxr-xr-x 3 root root 4096 Apr 28 10:03 /var/spool/squirrelmail/
drwx----- 2 apache apache 4096 Apr 28 12:58 /var/spool/squirrelmail/attach/
[root@arwen ~]#
```

/etc/httpd/conf/httpd.conf:

Add:

```
<IfModule mod_php5.c>
    AddType application/x-httpd-php .php
</IfModule>
```

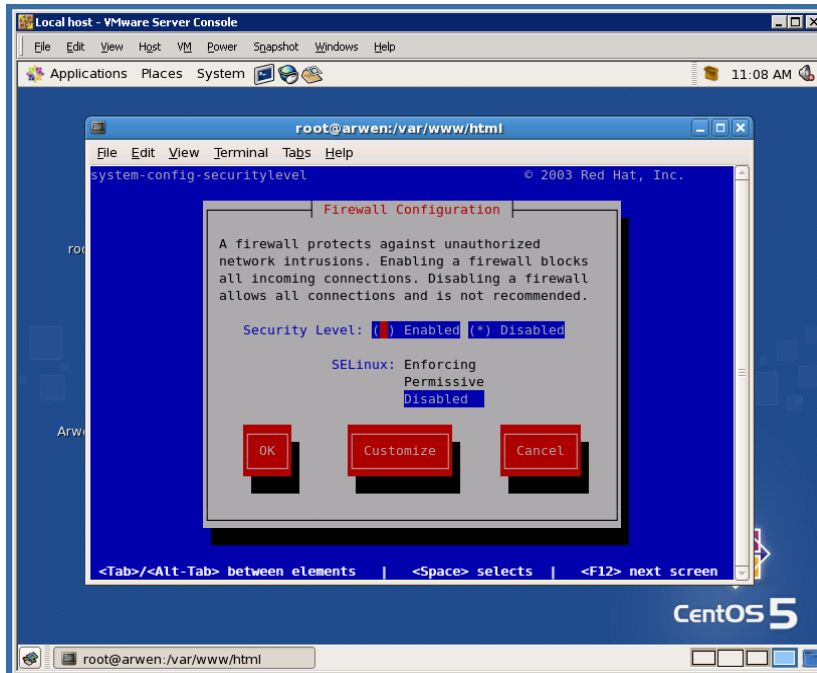
Modify the ServerName:

```
[root@arwen html]# cat /etc/httpd/conf/httpd.conf | grep "ServerName arwen"
ServerName arwen.localdomain:80
```

Restart httpd service:

```
[root@arwen html]# service httpd restart
Stopping httpd: [ OK ]
Starting httpd: [ OK ]
[root@arwen html]#
```

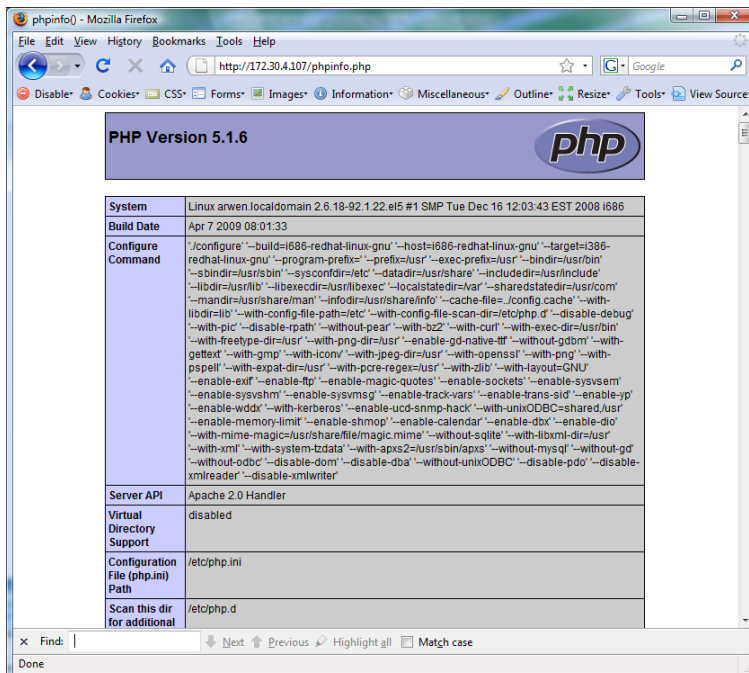
Disable firewall and SELinux with lokkit command for now:



Verify PHP is working:

```
[root@arwen html]# cat /var/www/html/phpinfo.php  
<?php phpinfo(); ?>
```

Browse to <http://172.30.4.102/phpinfo.php>



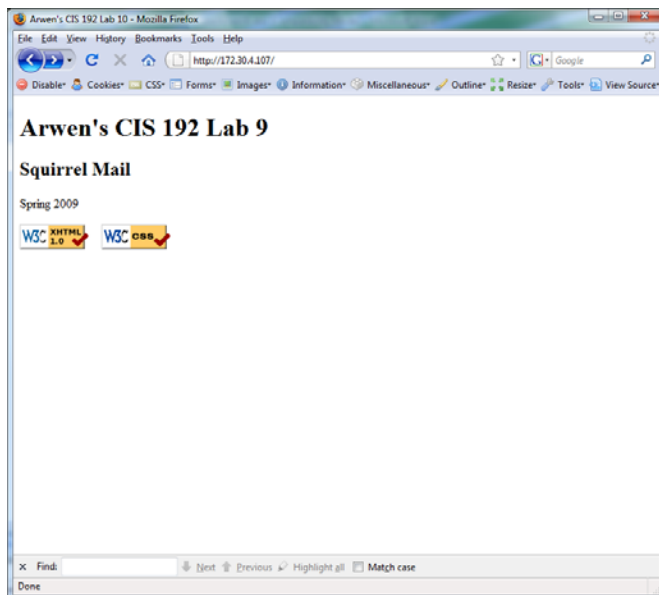
Create a sample web page in /var/www/html:

```
[root@arwen html]# cat /var/www/html/index.html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<title>Arwen's CIS 192 Lab 10</title>
</head>
<body>
<h1>Arwen's CIS 192 Lab 9</h1>
<h2>Squirrel Mail</h2>
<div>
<!--  -->
</div>

<p>Spring 2009</p>

<div>
<a href="http://validator.w3.org/check/referer"
style="background-color: transparent">
</a>
&nbsp;&nbsp;&nbsp;
<a href="http://jigsaw.w3.org/css-validator/check/referer"
style="background-color: transparent">
</a>
</div>

</body>
</html>
```



```
[root@arwen html]#
```

Add the following to the Alias section of /etc/httpd/conf/httpd.conf:

```
Alias /squirrelmail /usr/share/squirrelmail/  
<Directory /usr/share/squirrelmail/ >  
  Options None  
  AllowOverride None  
  DirectoryIndex index.php  
  Order Allow,Deny  
  Allow from all  
</Directory>
```

```
[root@arwen cgi-bin]# service httpd restart
```

```
Stopping httpd:
```

```
[ OK ]
```

```
Starting httpd:
```

```
[ OK ]
```

```
[root@arwen cgi-bin]#
```

Configure /etc/squirrelmail/config.php

```
[root@arwen cgi-bin]# cat /etc/squirrelmail/config.php
```

```
<?php
```

```
/**
```

```
 * SquirrelMail Configuration File  
 * Created using the configure script, conf.pl  
 */
```

```
global $version;
```

```
$config_version = '1.4.0';
```

```
$config_use_color = 1;
```

```
$org_name      = "SquirrelMail";
```

```
$org_logo      = SM_PATH . 'images/sm_logo.png';
```

```
$org_logo_width = '308';
```

```
$org_logo_height = '111';
```

```
$org_title     = "SquirrelMail $version";
```

```
$signout_page  = '';
```

```
$frame_top     = '_top';
```

```
$provider_uri  = 'http://www.squirrelmail.org/';
```

```
$provider_name = 'SquirrelMail';
```

```
$motd = "";
```

```
$squirrelmail_default_language = 'en_US';
```

```
$domain          = 'hayrocket.com'; // RJS
```

```
$imapServerAddress = 'mail.hayrocket.com'; //RJS
```

```
$imapPort        = 143;
```

```
/*
```

```
$useSendmail      = true;
```

```
$smtpServerAddress = 'mail.hayrocket.com'; //RJS
```

```
$smtpPort         = 25;
```

```

*/

// Use these setting on Cruzio network
$useSendmail          = false; // RJS
$smtpServerAddress    = 'mx.cruzio.com'; // RJS
$smtpPort             = 587; //RJS 25 blocked by cruzio

$sendmail_path        = '/usr/sbin/sendmail';
$pop_before_smtp     = false;
$imap_server_type     = 'other'; //RJS
$invert_time         = false;
$optional_delimiter   = 'detect'; //RJS

$default_folder_prefix = ''; //RJS
$trash_folder         = 'INBOX.Trash';
$sent_folder          = 'INBOX.Sent';
$draft_folder         = 'INBOX.Drafts';
$default_move_to_trash = true;
$default_move_to_sent = true;
$default_save_as_draft = true;
$show_prefix_option   = false; //RJS
$list_special_folders_first = true;
$use_special_folder_color = true;
$auto_expunge         = true;
$default_sub_of_inbox = true; //RJS
$show_contain_subfolders_option = false; //RJS
$default_unseen_notify = 2;
$default_unseen_type  = 1;
$auto_create_special  = true;
$delete_folder        = false;
$noselect_fix_enable  = false;

$default_charset      = 'iso-8859-1';
$data_dir              = '/var/lib/squirrelmail/prefs/';
$attachment_dir       = '/var/spool/squirrelmail/attach/';
$dir_hash_level        = 0;
$default_left_size     = '150';
$force_username_lowercase = false;
$default_use_priority  = true;
$hide_sm_attributions  = false;
$default_use_mdn       = true;
$edit_identity         = true;
$edit_name             = true;
$allow_thread_sort     = true;
$allow_server_sort     = true;
$allow_charset_search  = true;
$uid_support           = true;

$plugins[0] = 'delete_move_next';
$plugins[1] = 'squirrelspell';
$plugins[2] = 'newmail';

$theme_css = '';
$theme_default = 0;
$theme[0]['PATH'] = SM_PATH . 'themes/default_theme.php';
$theme[0]['NAME'] = 'Default';
$theme[1]['PATH'] = SM_PATH . 'themes/plain_blue_theme.php';

```

```
$theme[1]['NAME'] = 'Plain Blue';
$theme[2]['PATH'] = SM_PATH . 'themes/sandstorm_theme.php';
$theme[2]['NAME'] = 'Sand Storm';
$theme[3]['PATH'] = SM_PATH . 'themes/deepocean_theme.php';
$theme[3]['NAME'] = 'Deep Ocean';
$theme[4]['PATH'] = SM_PATH . 'themes/slashdot_theme.php';
$theme[4]['NAME'] = 'Slashdot';
$theme[5]['PATH'] = SM_PATH . 'themes/purple_theme.php';
$theme[5]['NAME'] = 'Purple';
$theme[6]['PATH'] = SM_PATH . 'themes/forest_theme.php';
$theme[6]['NAME'] = 'Forest';
$theme[7]['PATH'] = SM_PATH . 'themes/ice_theme.php';
$theme[7]['NAME'] = 'Ice';
$theme[8]['PATH'] = SM_PATH . 'themes/seaspray_theme.php';
$theme[8]['NAME'] = 'Sea Spray';
$theme[9]['PATH'] = SM_PATH . 'themes/bluesteel_theme.php';
$theme[9]['NAME'] = 'Blue Steel';
$theme[10]['PATH'] = SM_PATH . 'themes/dark_grey_theme.php';
$theme[10]['NAME'] = 'Dark Grey';
$theme[11]['PATH'] = SM_PATH . 'themes/high_contrast_theme.php';
$theme[11]['NAME'] = 'High Contrast';
$theme[12]['PATH'] = SM_PATH . 'themes/black_bean_burrito_theme.php';
$theme[12]['NAME'] = 'Black Bean Burrito';
$theme[13]['PATH'] = SM_PATH . 'themes/serververy_theme.php';
$theme[13]['NAME'] = 'Serververy';
$theme[14]['PATH'] = SM_PATH . 'themes/maize_theme.php';
$theme[14]['NAME'] = 'Maize';
$theme[15]['PATH'] = SM_PATH . 'themes/bluesnews_theme.php';
$theme[15]['NAME'] = 'BluesNews';
$theme[16]['PATH'] = SM_PATH . 'themes/deepocean2_theme.php';
$theme[16]['NAME'] = 'Deep Ocean 2';
$theme[17]['PATH'] = SM_PATH . 'themes/blue_grey_theme.php';
$theme[17]['NAME'] = 'Blue Grey';
$theme[18]['PATH'] = SM_PATH . 'themes/dompie_theme.php';
$theme[18]['NAME'] = 'Dompie';
$theme[19]['PATH'] = SM_PATH . 'themes/methodical_theme.php';
$theme[19]['NAME'] = 'Methodical';
$theme[20]['PATH'] = SM_PATH . 'themes/greenhouse_effect.php';
$theme[20]['NAME'] = 'Greenhouse Effect (Changes)';
$theme[21]['PATH'] = SM_PATH . 'themes/in_the_pink.php';
$theme[21]['NAME'] = 'In The Pink (Changes)';
$theme[22]['PATH'] = SM_PATH . 'themes/kind_of_blue.php';
$theme[22]['NAME'] = 'Kind of Blue (Changes)';
$theme[23]['PATH'] = SM_PATH . 'themes/monostochastic.php';
$theme[23]['NAME'] = 'Monostochastic (Changes)';
$theme[24]['PATH'] = SM_PATH . 'themes/shades_of_grey.php';
$theme[24]['NAME'] = 'Shades of Grey (Changes)';
$theme[25]['PATH'] = SM_PATH . 'themes/spice_of_life.php';
$theme[25]['NAME'] = 'Spice of Life (Changes)';
$theme[26]['PATH'] = SM_PATH . 'themes/spice_of_life_lite.php';
$theme[26]['NAME'] = 'Spice of Life - Lite (Changes)';
$theme[27]['PATH'] = SM_PATH . 'themes/spice_of_life_dark.php';
$theme[27]['NAME'] = 'Spice of Life - Dark (Changes)';
$theme[28]['PATH'] = SM_PATH . 'themes/christmas.php';
$theme[28]['NAME'] = 'Holiday - Christmas';
$theme[29]['PATH'] = SM_PATH . 'themes/darkness.php';
$theme[29]['NAME'] = 'Darkness (Changes)';
```

```
$theme[30]['PATH'] = SM_PATH . 'themes/random.php';
$theme[30]['NAME'] = 'Random (Changes every login)';
$theme[31]['PATH'] = SM_PATH . 'themes/midnight.php';
$theme[31]['NAME'] = 'Midnight';
$theme[32]['PATH'] = SM_PATH . 'themes/alien_glow.php';
$theme[32]['NAME'] = 'Alien Glow';
$theme[33]['PATH'] = SM_PATH . 'themes/dark_green.php';
$theme[33]['NAME'] = 'Dark Green';
$theme[34]['PATH'] = SM_PATH . 'themes/penguin.php';
$theme[34]['NAME'] = 'Penguin';

$default_use_javascript_addr_book = false;
$addrbook_dsn = '';
$addrbook_table = 'address';

$prefs_dsn = '';
$prefs_table = 'userprefs';
$prefs_user_field = 'user';
$prefs_key_field = 'prefkey';
$prefs_val_field = 'prefval';
$no_list_for_subscribe = false;
$smtp_auth_mech = 'none';
$imap_auth_mech = 'login';
$use_imap_tls = false;
$use_smtp_tls = false;
$session_name = 'SQMSESSID';

@include SM_PATH . 'config/config_local.php';

/**
 * Make sure there are no characters after the PHP closing
 * tag below (including newline characters and whitespace).
 * Otherwise, that character will cause the headers to be
 * sent and regular output to begin, which will majorly screw
 * things up when we try to send more headers later.
 */
?>
[root@arwen mqueue]#
```

SquirrelMail configtest - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/squirrelmail/src/configtest.php

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resizer Tools View Source

SquirrelMail configtest

This script will try to check some aspects of your SquirrelMail configuration and point you to errors wherever it can find them. You need to go run `conf.pl` in the `config/` directory first before you run this script.

SquirrelMail version: **1.4.8-5.el5.centos.3**
Config file version: **1.4.0**
Config file last modified: **28 April 2009 13:02:31**

Checking PHP configuration...
PHP version 5.1.6 OK.
PHP extensions OK.

Checking paths...
Data dir OK.
Attachment dir OK.
Plugins OK.
Themes OK.
Default language OK.
Base URL detected as: `http://172.30.4.107/squirrelmail/src` (location base autodetected)

Checking outgoing mail service....
sendmail OK

Checking IMAP service....
IMAP server ready (+ OK [CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT THREAD=REFERENCES SORT QUOTA IDLE STARTTLS] Courier-IMAP ready. Copyright 1998-2005 Double Precision, Inc. See COPYING for distribution information.)
Capabilities: * CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT THREAD=REFERENCES SORT QUOTA IDLE STARTTLS

Checking internationalization (i18n) settings...
gettext - Gettext functions are available. You must have appropriate system locales compiled.
mbstring - Mbstring functions are available.
recode - Recode functions are unavailable.
iconv - Iconv functions are available.
timezone - Webmail users can change their time zone settings.

Checking database functions...
not using database functionality.

Congratulations, your SquirrelMail setup looks fine to me!

[Login now](#)

Done


Taskbar: 2 Wind, Yahoo! M, Microsoft, 2 Remo, cic182lab, 2 Adob, Firefox

SquirrelMail - Login - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/squirrelmail/src/login.php

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source



SquirrelMail
webmail
for
nuts

SquirrelMail version 1.4.8-5.el5.centos.3
By the SquirrelMail Project Team

SquirrelMail Login

Name:

Password:

Done

SquirrelMail 1.4.8-5.el5.centos.3 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/squirrelmail/src/webmail.php

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source

Folders
Last Refresh: Tue, 11:49 am (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:

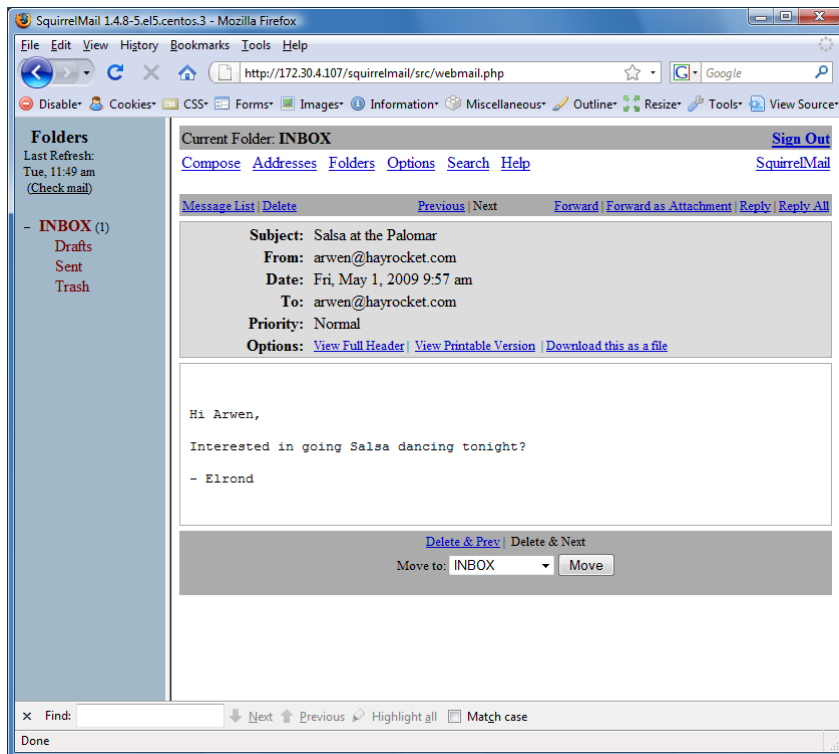
[Thread View](#)

From	Date	Subject
<input type="checkbox"/> arwen@hayrocket.com	May 1, 2009	Bring some nuts
<input type="checkbox"/> arwen@hayrocket.com	May 1, 2009	Salsa at the Palomar

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

Find: Match case

Done



Adding mysql database to solution

```
[root@arwen ~]# rpm -qa | grep mysql
[root@arwen ~]# rpm -qa | grep squirrelmail
squirrelmail-1.4.8-5.el5.centos.3
[root@arwen ~]# rpm -qa | grep apache
[root@arwen ~]# rpm -qa | grep httpd
httpd-2.2.3-11.el5_2.centos.4
```

```
[root@arwen ~]# yum install mysql
Loading "fastestmirror" plugin
Loading mirror speeds from cached hostfile
* base: mirror.steadfast.net
* updates: centos.cogentcloud.com
* addons: mirrors.versaweb.com
* extras: mirrors.usc.edu
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package mysql.i386 0:5.0.45-7.el5 set to be updated
--> Processing Dependency: perl(DBI) for package: mysql
--> Running transaction check
---> Package perl-DBI.i386 0:1.52-2.el5 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

```

=====
Package                Arch      Version      Repository    Size
=====
Installing:
mysql                  i386      5.0.45-7.el5  base          4.1 M
Installing for dependencies:
perl-DBI              i386      1.52-2.el5   base          600 k

```

Transaction Summary

```

=====
Install      2 Package(s)
Update      0 Package(s)
Remove      0 Package(s)

```

Total download size: 4.7 M

Is this ok [y/N]: y

Downloading Packages:

```

(1/2): mysql-5.0.45-7.el5 100% |=====| 4.1 MB    00:28
(2/2): perl-DBI-1.52-2.el 100% |=====| 600 kB    00:04

```

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

```

  Installing: perl-DBI          ##### [1/2]
  Installing: mysql            ##### [2/2]

```

Installed: mysql.i386 0:5.0.45-7.el5

Dependency Installed: perl-DBI.i386 0:1.52-2.el5

Complete!

[root@arwen ~]# service httpd status

httpd (pid 4747 4744 4743 4742 4740 4739 4738 4737 4703) is running...

[root@arwen ~]# **yum install mysql-server**

Loading "fastestmirror" plugin

Loading mirror speeds from cached hostfile

- * base: mirror.steadfast.net
- * updates: centos.cogentcloud.com
- * addons: mirrors.versaweb.com
- * extras: mirrors.usc.edu

Setting up Install Process

Parsing package install arguments

Resolving Dependencies

--> Running transaction check

---> Package mysql-server.i386 0:5.0.45-7.el5 set to be updated

--> Processing Dependency: perl-DBD-MySQL for package: mysql-server

--> Running transaction check

---> Package perl-DBD-MySQL.i386 0:3.0007-2.el5 set to be updated

--> Finished Dependency Resolution

Dependencies Resolved

```

=====
Package                Arch      Version      Repository    Size
=====

```

```
Installing:
mysql-server          i386          5.0.45-7.el5      base          9.7 M
Installing for dependencies:
perl-DBD-MySQL       i386          3.0007-2.el5      base          148 k
```

Transaction Summary

```
=====
Install      2 Package(s)
Update      0 Package(s)
Remove      0 Package(s)
```

Total download size: 9.8 M

Is this ok [y/N]: y

Downloading Packages:

```
(1/2): mysql-server-5.0.4 100% |=====| 9.7 MB    01:15
(2/2): perl-DBD-MySQL-3.0 100% |=====| 148 kB    00:01
```

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Installing: perl-DBD-MySQL ##### [1/2]

Installing: mysql-server ##### [2/2]

Installed: mysql-server.i386 0:5.0.45-7.el5

Dependency Installed: perl-DBD-MySQL.i386 0:3.0007-2.el5

Complete!

[root@arwen ~]# **service mysqld start**

Initializing MySQL database: Installing MySQL system tables...

OK

Filling help tables...

OK

To start mysqld at boot time you have to copy
support-files/mysql.server to the right place for your system

PLEASE REMEMBER TO SET A PASSWORD FOR THE MySQL root USER !

To do so, start the server, then issue the following commands:

```
/usr/bin/mysqladmin -u root password 'new-password'
```

```
/usr/bin/mysqladmin -u root -h arwen.localdomain password 'new-password'
```

See the manual for more instructions.

You can start the MySQL daemon with:

```
cd /usr ; /usr/bin/mysqld_safe &
```

You can test the MySQL daemon with mysql-test-run.pl

```
cd mysql-test ; perl mysql-test-run.pl
```

Please report any problems with the /usr/bin/mysqlbug script!

The latest information about MySQL is available on the web at

<http://www.mysql.com>

Support MySQL by buying support/licenses at <http://shop.mysql.com>

[OK]

Starting MySQL:

[OK]

[root@arwen ~]#

Add password to mysql

```
[root@arwen ~] mysqladmin -u root password 'Secret'
```

```
[root@arwen ~]# rpm -qa | grep php-mysql
```

```
[root@arwen ~]# yum install php-mysql
```

```
Loading "fastestmirror" plugin
Loading mirror speeds from cached hostfile
* base: mirror.steadfast.net
* updates: centos.cogentcloud.com
* addons: mirrors.versaweb.com
* extras: mirrors.usc.edu
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package php-mysql.i386 0:5.1.6-23.2.el5_3 set to be updated
--> Processing Dependency: php-pdo for package: php-mysql
--> Running transaction check
---> Package php-pdo.i386 0:5.1.6-23.2.el5_3 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                Arch      Version              Repository           Size
=====
Installing:
php-mysql               i386     5.1.6-23.2.el5_3    updates              85 k
Installing for dependencies:
php-pdo                 i386     5.1.6-23.2.el5_3    updates              64 k
=====
```

Transaction Summary

```
=====
Install      2 Package(s)
Update      0 Package(s)
Remove      0 Package(s)
=====
```

Total download size: 148 k

Is this ok [y/N]: y

Downloading Packages:

```
(1/2): php-pdo-5.1.6-23.2 100% |=====| 64 kB 00:00
(2/2): php-mysql-5.1.6-23 100% |=====| 85 kB 00:00
```

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

```
Installing: php-pdo ##### [1/2]
```

```
Installing: php-mysql ##### [2/2]
```

Installed: php-mysql.i386 0:5.1.6-23.2.el5_3

Dependency Installed: php-pdo.i386 0:5.1.6-23.2.el5_3

Complete!

```
[root@arwen ~]#
```

```
[root@arwen bin]# service mysqld restart
Stopping MySQL: [ OK ]
Starting MySQL: [ OK ]
```

```
[root@arwen bin]# mysql -V --password="Secret"
mysql Ver 14.12 Distrib 5.0.45, for redhat-linux-gnu (i686) using readline
5.0
[root@arwen bin]#
```

Create squirrelmail database and tables

```
[root@arwen bin]#
[root@arwen bin]# mysql --password="Secret"
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.0.45 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> CREATE DATABASE squirrelmail;
Query OK, 1 row affected (0.00 sec)

mysql> GRANT select,insert,update,delete ON squirrelmail.*
  -> TO Anonymous@localhost IDENTIFIED BY '';
Query OK, 0 rows affected (0.05 sec)

mysql>
mysql> USE squirrelmail;
Database changed
mysql> CREATE TABLE address (
  -> owner varchar(128) DEFAULT '' NOT NULL,
  -> nickname varchar(16) DEFAULT '' NOT NULL,
  -> firstname varchar(128) DEFAULT '' NOT NULL,
  -> lastname varchar(128) DEFAULT '' NOT NULL,
  -> email varchar(128) DEFAULT '' NOT NULL,
  -> label varchar(255),
  -> PRIMARY KEY (owner,nickname),
  -> KEY firstname (firstname,lastname)
  -> );
Query OK, 0 rows affected (0.06 sec)

mysql>
mysql> CREATE TABLE userprefs (
  -> user varchar(128) DEFAULT '' NOT NULL,
  -> prefkey varchar(64) DEFAULT '' NOT NULL,
  -> prefval blob DEFAULT '' NOT NULL,
  -> PRIMARY KEY (user,prefkey)
  -> );
Query OK, 0 rows affected, 1 warning (0.05 sec)

mysql>
mysql> quit
Bye
[root@arwen bin]#
```

```
[root@arwen bin]# /usr/share/squirrelmail/config/conf.pl
```

```
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
7. Message of the Day (MOTD)
8. Plugins
9. Database
10. Languages

D. Set pre-defined settings for specific IMAP servers

- C Turn color off
S Save data
Q Quit

```
Command >> 9
```

```
SquirrelMail Configuration : Read: config.php (1.4.0)
```

```
-----  
Database
```

1. DSN for Address Book :
2. Table for Address Book : address

3. DSN for Preferences :
4. Table for Preferences : userprefs
5. Field for username : user
6. Field for prefs key : prefkey
7. Field for prefs value : prefval

8. DSN for Global Address Book :
9. Table for Global Address Book : global_aobook
10. Allow writing into Global Address Book : false
11. Allow listing of Global Address Book : false

- R Return to Main Menu
C Turn color off
S Save data
Q Quit

```
Command >> 1
```

If you want to store your users address book details in a database then you need to set this DSN to a valid value. The format for this is:

```
mysql://user:pass@hostname/dbname
```

Where mysql can be one of the databases PHP supports, the most common of these are mysql, msql and pgsq.

Please ensure proper permissions for config.php when including

sensitive passwords.

If the DSN is left empty (hit space and then return) the database related code for address books will not be used.

```
[ ]: mysql://root:Secret@localhost/squirrelmail
```

```
SquirrelMail Configuration : Read: config.php (1.4.0)
```

```
-----  
Database
```

1. DSN for Address Book : mysql://root:Secret@localhost/squirrelmail
2. Table for Address Book : address

3. DSN for Preferences :
4. Table for Preferences : userprefs
5. Field for username : user
6. Field for prefs key : prefkey
7. Field for prefs value : prefval

8. DSN for Global Address Book :
9. Table for Global Address Book : global_abook
10. Allow writing into Global Address Book : false
11. Allow listing of Global Address Book : false

R Return to Main Menu
C Turn color off
S Save data
Q Quit

Command >> 3

If you want to store your users preferences in a database then you need to set this DSN to a valid value. The format for this is:
mysql://user:pass@hostname/dbname

Where mysql can be one of the databases PHP supports, the most common of these are mysql, msql and pgsq.

Please ensure proper permissions for config.php when including sensitive passwords.

If the DSN is left empty (hit space and then return) the database related code for address books will not be used.

```
[ ]: mysql://root:Secret@localhost/squirrelmail
```

```
SquirrelMail Configuration : Read: config.php (1.4.0)
```

```
-----  
Database
```

1. DSN for Address Book : mysql://root:Secret@localhost/squirrelmail
2. Table for Address Book : address

3. DSN for Preferences : mysql://root:Secret@localhost/squirrelmail
4. Table for Preferences : userprefs
5. Field for username : user
6. Field for prefs key : prefkey
7. Field for prefs value : prefval


```
8. DSN for Global Address Book      :
9. Table for Global Address Book    : global_abook
10. Allow writing into Global Address Book : false
11. Allow listing of Global Address Book  : false
```

```
R Return to Main Menu
C Turn color off
S Save data
Q Quit
```

Command >> Q

You have not saved your data.

Save? [Y/n]: Y

Data saved in config.php

Exiting conf.pl.

You might want to test your configuration by browsing to

<http://your-squirrelmail-location/src/configtest.php>

Happy SquirrelMailing!

[root@arwen bin]#

[root@arwen bin]# **yum install php-pear-DB**

Loading "fastestmirror" plugin

Loading mirror speeds from cached hostfile

```
* base: mirror.steadfast.net
* updates: centos.cogentcloud.com
* addons: mirrors.versaweb.com
* extras: mirrors.usc.edu
```

Setting up Install Process

Parsing package install arguments

Resolving Dependencies

--> Running transaction check

---> Package php-pear-DB.noarch 0:1.7.13-1.el5.centos set to be updated

--> Processing Dependency: php-pear(PEAR) for package: php-pear-DB

--> Processing Dependency: /usr/bin/pear for package: php-pear-DB

--> Running transaction check

---> Package php-pear.noarch 1:1.4.9-4.el5.1 set to be updated

--> Finished Dependency Resolution

Dependencies Resolved

```
=====
Package                Arch      Version           Repository        Size
=====
Installing:
php-pear-DB            noarch   1.7.13-1.el5.centos  extras
142 k
Installing for dependencies:
php-pear               noarch   1:1.4.9-4.el5.1    base               356 k
=====
```

Transaction Summary

```
=====
Install      2 Package(s)
Update      0 Package(s)
Remove      0 Package(s)
=====
```

```
Total download size: 498 k
Is this ok [y/N]: y
Downloading Packages:
(1/2): php-pear-DB-1.7.13 100% |=====| 142 kB    00:01
(2/2): php-pear-1.4.9-4.e 100% |=====| 356 kB    00:04
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing: php-pear                    ##### [1/2]
  Installing: php-pear-DB                 ##### [2/2]

Installed: php-pear-DB.noarch 0:1.7.13-1.el5.centos
Dependency Installed: php-pear.noarch 1:1.4.9-4.el5.1
Complete!
[root@arwen bin]#

[root@arwen bin]# service mysqld restart
Stopping MySQL:                [ OK ]
Starting MySQL:                [ OK ]
[root@arwen bin]#

[root@arwen bin]# service httpd restart
Stopping httpd:                [ OK ]
Starting httpd:                [ OK ]
[root@arwen bin]#

[root@arwen bin]# chkconfig httpd on

[root@arwen bin]# chkconfig mysqld on
```

SquirrelMail configtest - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/squirrelmail/src/configtest.php

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resizer Tools View Sou

SquirrelMail configtest

This script will try to check some aspects of your SquirrelMail configuration and point you to errors wherever it can find them. You need to go run `conf.pl` in the `config/` directory first before you run this script.

SquirrelMail version: **1.4.8-5.el5.centos.3**
Config file version: **1.4.0**
Config file last modified: **29 April 2009 00:38:20**

Checking PHP configuration...
PHP version 5.1.6 OK.
PHP extensions OK.

Checking paths...
Data dir OK.
Attachment dir OK.
Plugins OK.
Themes OK.
Default language OK.
Base URL detected as: `http://172.30.4.107/squirrelmail/src` (location base autodetected)

Checking outgoing mail service...
SMTP server OK (220 mail.crusio.com ESMTP ready at Sat, 2 May 2009 09:04:05 -0700 (PDT))

Checking IMAP service...
IMAP server ready (* OK [CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT THREAD=REFERENCES SORT QUOTA IDLE STARTTLS] Courier-IMAP ready. Copyright 1998-2005 Double Precision, Inc. See COPYING for distribution information.)
Capabilities: * CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT THREAD=REFERENCES SORT QUOTA IDLE STARTTLS

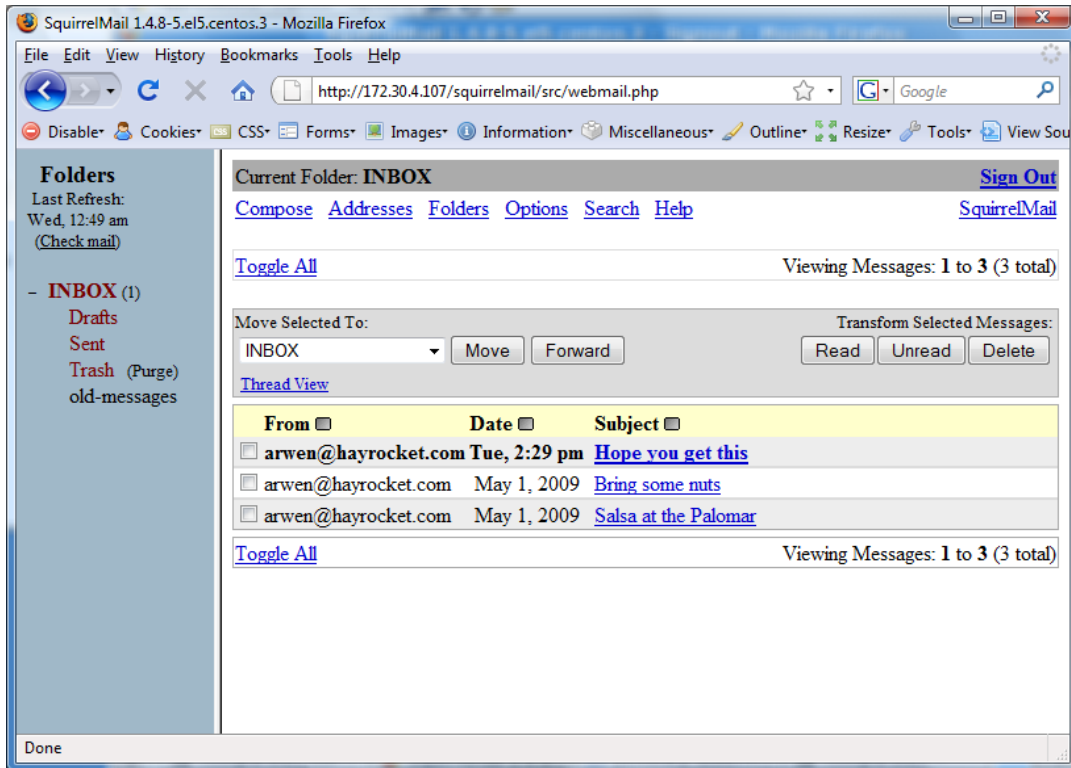
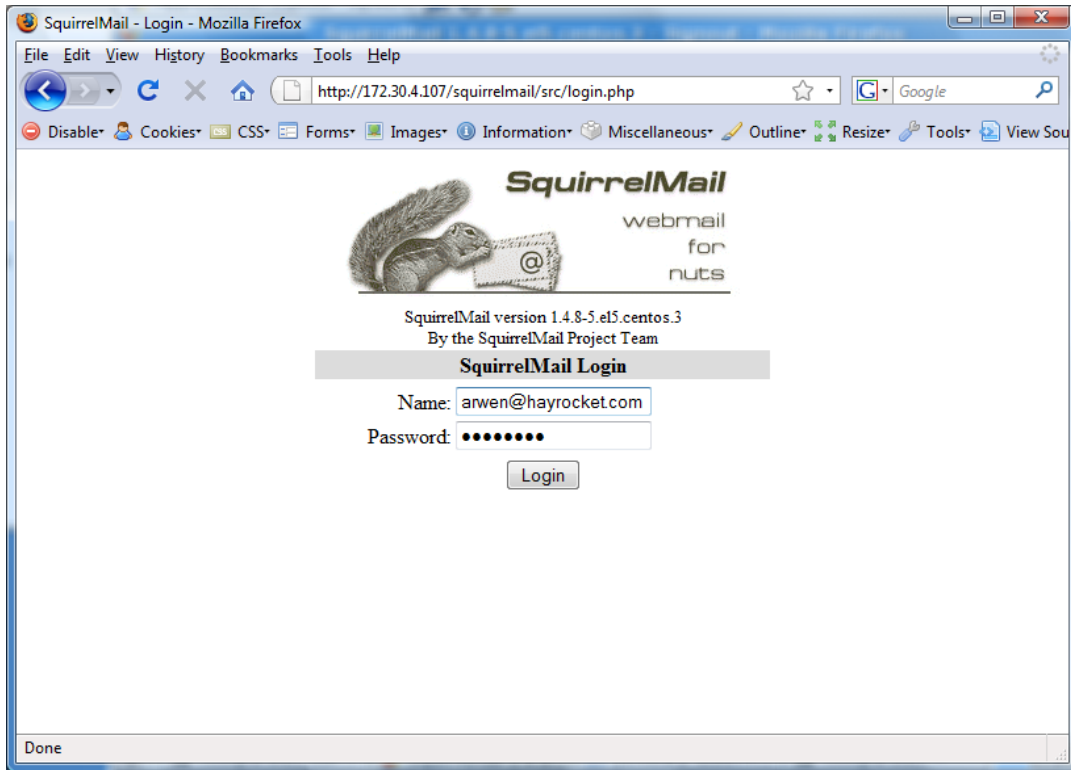
Checking internationalization (i18n) settings...
gettext - Gettext functions are available. You must have appropriate system locales compiled.
mbstring - Mbstring functions are available.
recode - Recode functions are unavailable.
iconv - Iconv functions are available.
timezone - Webmail users can change their time zone settings.

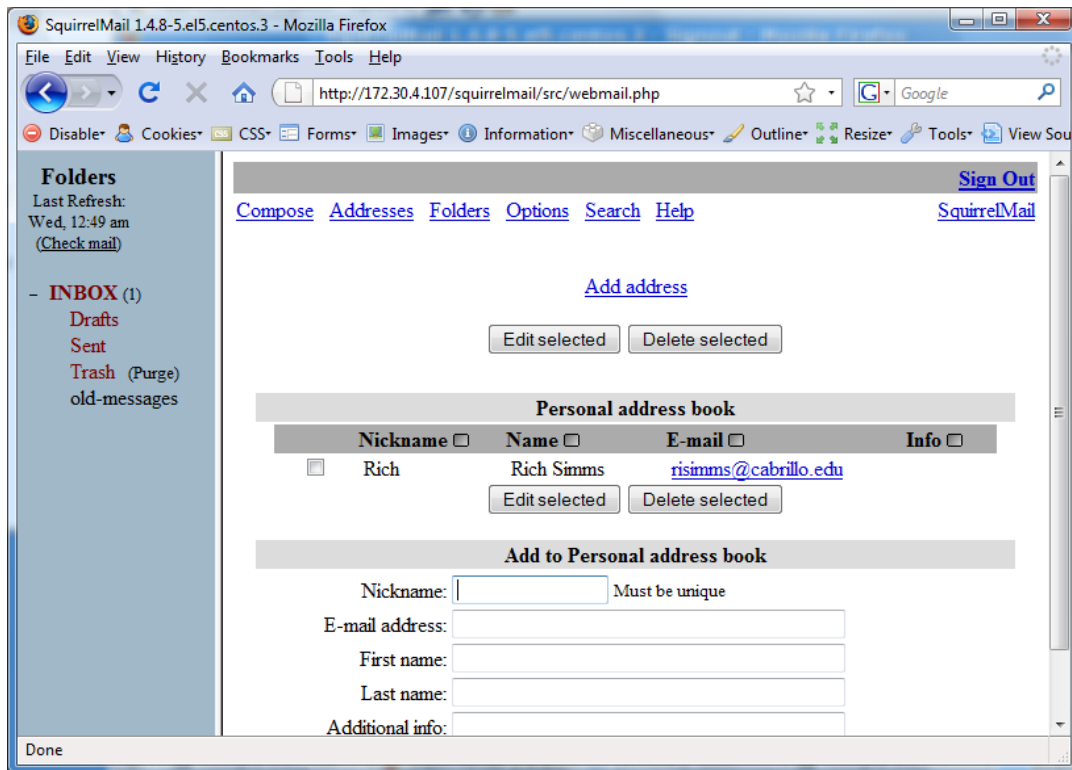
Checking database functions...
PHP Pear DB support is present.
mysql database support present.
preferences database connect successful.
mysql database support present.
addressbook database connect successful.

Congratulations, your SquirrelMail setup looks fine to me!

[Login now](#)

Done





```
[root@arwen ~]# mysql --password='Secret'
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 5.0.45 Source distribution
```

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

```
mysql> use squirrelmail;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
mysql> show tables;
```

```
+-----+
| Tables_in_squirrelmail |
+-----+
| address                 |
| userprefs               |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE address;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| owner      | varchar(128)  | NO   | PRI |          |       |
| nickname   | varchar(16)   | NO   | PRI |          |       |
| firstname  | varchar(128)  | NO   | MUL |          |       |
+-----+-----+-----+-----+-----+-----+
```

lastname	varchar(128)	NO			
email	varchar(128)	NO			
label	varchar(255)	YES		NULL	

6 rows in set (0.05 sec)

```
mysql> DESCRIBE userprefs;
```

Field	Type	Null	Key	Default	Extra
user	varchar(128)	NO	PRI		
prefkey	varchar(64)	NO	PRI		
prefval	blob	NO			

3 rows in set (0.01 sec)

```
mysql> SELECT * FROM address;
```

owner	nickname	firstname	lastname	email	label
arwen@hayrocket.com	Rich	Rich	Simms	risimms@cabrillo.edu	

1 row in set (0.00 sec)

```
mysql> SELECT * FROM userprefs;
```

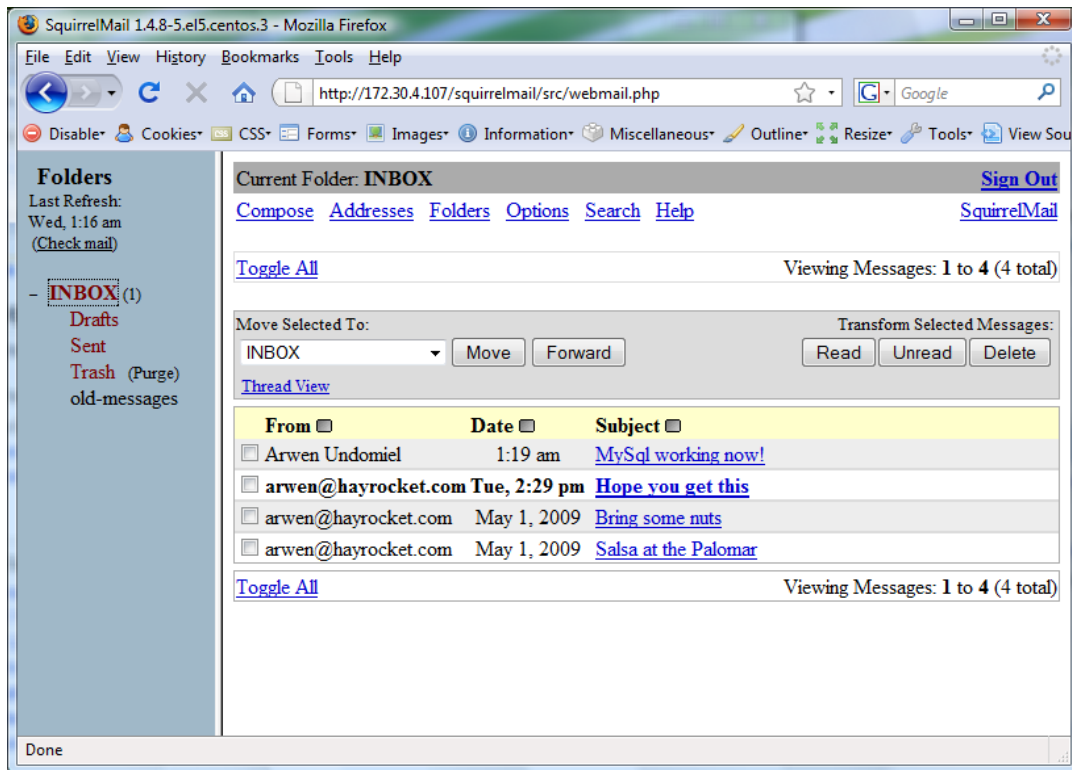
user	prefkey	prefval
arwen@hayrocket.com	javascript_on	1
arwen@hayrocket.com	hililist	a:0:{{}
arwen@hayrocket.com	full_name	Arwen Undomiel
arwen@hayrocket.com	email_address	arwen@hayrocket.com
arwen@hayrocket.com	reply_to	Arwen
arwen@hayrocket.com	prefix_sig	0

6 rows in set (0.00 sec)

```
mysql> quit
```

Bye

[root@arwen ~]#



Final config.php settings

```
[root@arwen ~]# cat /etc/squirrelmail/config.php
<?php

/**
 * SquirrelMail Configuration File
 * Created using the configure script, conf.pl
 */

global $version;
$config_version = '1.4.0';
$config_use_color = 1;

$org_name      = "SquirrelMail";
$org_logo     = SM_PATH . 'images/sm_logo.png';
$org_logo_width  = '308';
$org_logo_height = '111';
$org_title    = "SquirrelMail $version";
$signout_page = '';
$frame_top   = '_top';

$provider_uri    = 'http://www.squirrelmail.org/';

$provider_name   = 'SquirrelMail';

$motd = "";
```

```
$squirrelmail_default_language = 'en_US';
$default_charset              = 'iso-8859-1';
$lossy_encoding               = false;

$domain                       = 'hayrocket.com'; // RJS';
$imapServerAddress            = 'mail.hayrocket.com'; //RJS';
$imapPort                     = 143;
$useSendmail                  = false; //RJS
$smtpServerAddress            = 'mx.cruzio.com'; // RJS';

$smtpPort                     = 587; //RJS;
$sendmail_path                = '/usr/sbin/sendmail';
$sendmail_args                = '-i -t';
$pop_before_smtp              = false;
$imap_server_type              = 'other'; //RJS';
$invert_time                   = false;
$optional_delimiter           = 'detect'; //RJS';
$encode_header_key            = '';

$default_folder_prefix        = ''; //RJS';
$trash_folder                  = 'INBOX.Trash';
$sent_folder                   = 'INBOX.Sent';
$draft_folder                  = 'INBOX.Drafts';
$default_move_to_trash        = true;
$default_move_to_sent          = true;
$default_save_as_draft         = true;
$show_prefix_option           = false; //RJS;
$list_special_folders_first    = true;
$use_special_folder_color      = true;
$auto_expunge                  = true;
$default_sub_of_inbox          = true; //RJS;
$show_contain_subfolders_option = false; //RJS;
$default_unseen_notify        = 2;
$default_unseen_type           = 1;
$auto_create_special           = true;
$delete_folder                 = false;
$noselect_fix_enable           = false;

$data_dir                      = '/var/lib/squirrelmail/prefs/';
$attachment_dir                = '/var/spool/squirrelmail/attach/';
$dir_hash_level                 = 0;
$default_left_size              = '150';
$force_username_lowercase       = false;
$default_use_priority           = true;
$hide_sm_attributions           = false;
$default_use_mdn                = true;
$edit_identity                  = true;
$edit_name                      = true;
$hide_auth_header               = false;
$allow_thread_sort              = true;
$allow_server_sort              = true;
$allow_charset_search           = true;
$suid_support                   = true;

$plugins[0] = 'delete_move_next';
$plugins[1] = 'squirrelspell';
$plugins[2] = 'newmail';
```



```
$theme_css = '';
$theme_default = 0;
$theme[0]['PATH'] = SM_PATH . 'themes/default_theme.php';
$theme[0]['NAME'] = 'Default';
$theme[1]['PATH'] = SM_PATH . 'themes/plain_blue_theme.php';
$theme[1]['NAME'] = 'Plain Blue';
$theme[2]['PATH'] = SM_PATH . 'themes/sandstorm_theme.php';
$theme[2]['NAME'] = 'Sand Storm';
$theme[3]['PATH'] = SM_PATH . 'themes/deepocean_theme.php';
$theme[3]['NAME'] = 'Deep Ocean';
$theme[4]['PATH'] = SM_PATH . 'themes/slashdot_theme.php';
$theme[4]['NAME'] = 'Slashdot';
$theme[5]['PATH'] = SM_PATH . 'themes/purple_theme.php';
$theme[5]['NAME'] = 'Purple';
$theme[6]['PATH'] = SM_PATH . 'themes/forest_theme.php';
$theme[6]['NAME'] = 'Forest';
$theme[7]['PATH'] = SM_PATH . 'themes/ice_theme.php';
$theme[7]['NAME'] = 'Ice';
$theme[8]['PATH'] = SM_PATH . 'themes/seaspray_theme.php';
$theme[8]['NAME'] = 'Sea Spray';
$theme[9]['PATH'] = SM_PATH . 'themes/bluesteel_theme.php';
$theme[9]['NAME'] = 'Blue Steel';
$theme[10]['PATH'] = SM_PATH . 'themes/dark_grey_theme.php';
$theme[10]['NAME'] = 'Dark Grey';
$theme[11]['PATH'] = SM_PATH . 'themes/high_contrast_theme.php';
$theme[11]['NAME'] = 'High Contrast';
$theme[12]['PATH'] = SM_PATH . 'themes/black_bean_burrito_theme.php';
$theme[12]['NAME'] = 'Black Bean Burrito';
$theme[13]['PATH'] = SM_PATH . 'themes/serververy_theme.php';
$theme[13]['NAME'] = 'Serververy';
$theme[14]['PATH'] = SM_PATH . 'themes/maize_theme.php';
$theme[14]['NAME'] = 'Maize';
$theme[15]['PATH'] = SM_PATH . 'themes/bluesnews_theme.php';
$theme[15]['NAME'] = 'BluesNews';
$theme[16]['PATH'] = SM_PATH . 'themes/deepocean2_theme.php';
$theme[16]['NAME'] = 'Deep Ocean 2';
$theme[17]['PATH'] = SM_PATH . 'themes/blue_grey_theme.php';
$theme[17]['NAME'] = 'Blue Grey';
$theme[18]['PATH'] = SM_PATH . 'themes/dompie_theme.php';
$theme[18]['NAME'] = 'Dompie';
$theme[19]['PATH'] = SM_PATH . 'themes/methodical_theme.php';
$theme[19]['NAME'] = 'Methodical';
$theme[20]['PATH'] = SM_PATH . 'themes/greenhouse_effect.php';
$theme[20]['NAME'] = 'Greenhouse Effect (Changes)';
$theme[21]['PATH'] = SM_PATH . 'themes/in_the_pink.php';
$theme[21]['NAME'] = 'In The Pink (Changes)';
$theme[22]['PATH'] = SM_PATH . 'themes/kind_of_blue.php';
$theme[22]['NAME'] = 'Kind of Blue (Changes)';
$theme[23]['PATH'] = SM_PATH . 'themes/monostochastic.php';
$theme[23]['NAME'] = 'Monostochastic (Changes)';
$theme[24]['PATH'] = SM_PATH . 'themes/shades_of_grey.php';
$theme[24]['NAME'] = 'Shades of Grey (Changes)';
$theme[25]['PATH'] = SM_PATH . 'themes/spice_of_life.php';
$theme[25]['NAME'] = 'Spice of Life (Changes)';
$theme[26]['PATH'] = SM_PATH . 'themes/spice_of_life_lite.php';
$theme[26]['NAME'] = 'Spice of Life - Lite (Changes)';
```

```
$theme[27]['PATH'] = SM_PATH . 'themes/spice_of_life_dark.php';
$theme[27]['NAME'] = 'Spice of Life - Dark (Changes)';
$theme[28]['PATH'] = SM_PATH . 'themes/christmas.php';
$theme[28]['NAME'] = 'Holiday - Christmas';
$theme[29]['PATH'] = SM_PATH . 'themes/darkness.php';
$theme[29]['NAME'] = 'Darkness (Changes)';
$theme[30]['PATH'] = SM_PATH . 'themes/random.php';
$theme[30]['NAME'] = 'Random (Changes every login)';
$theme[31]['PATH'] = SM_PATH . 'themes/midnight.php';
$theme[31]['NAME'] = 'Midnight';
$theme[32]['PATH'] = SM_PATH . 'themes/alien_glow.php';
$theme[32]['NAME'] = 'Alien Glow';
$theme[33]['PATH'] = SM_PATH . 'themes/dark_green.php';
$theme[33]['NAME'] = 'Dark Green';
$theme[34]['PATH'] = SM_PATH . 'themes/penguin.php';
$theme[34]['NAME'] = 'Penguin';

$default_use_javascript_addr_book = false;
$abook_global_file = '';
$abook_global_file_writeable = false;

$addrbook_dsn = 'mysql://root:Secret@localhost/squirrelmail';
$addrbook_table = 'address';

$prefs_dsn = 'mysql://root:Secret@localhost/squirrelmail';
$prefs_table = 'userprefs';
$prefs_user_field = 'user';
$prefs_key_field = 'prefkey';
$prefs_val_field = 'prefval';
$addrbook_global_dsn = '';
$addrbook_global_table = 'global_abook';
$addrbook_global_writeable = false;
$addrbook_global_listing = false;

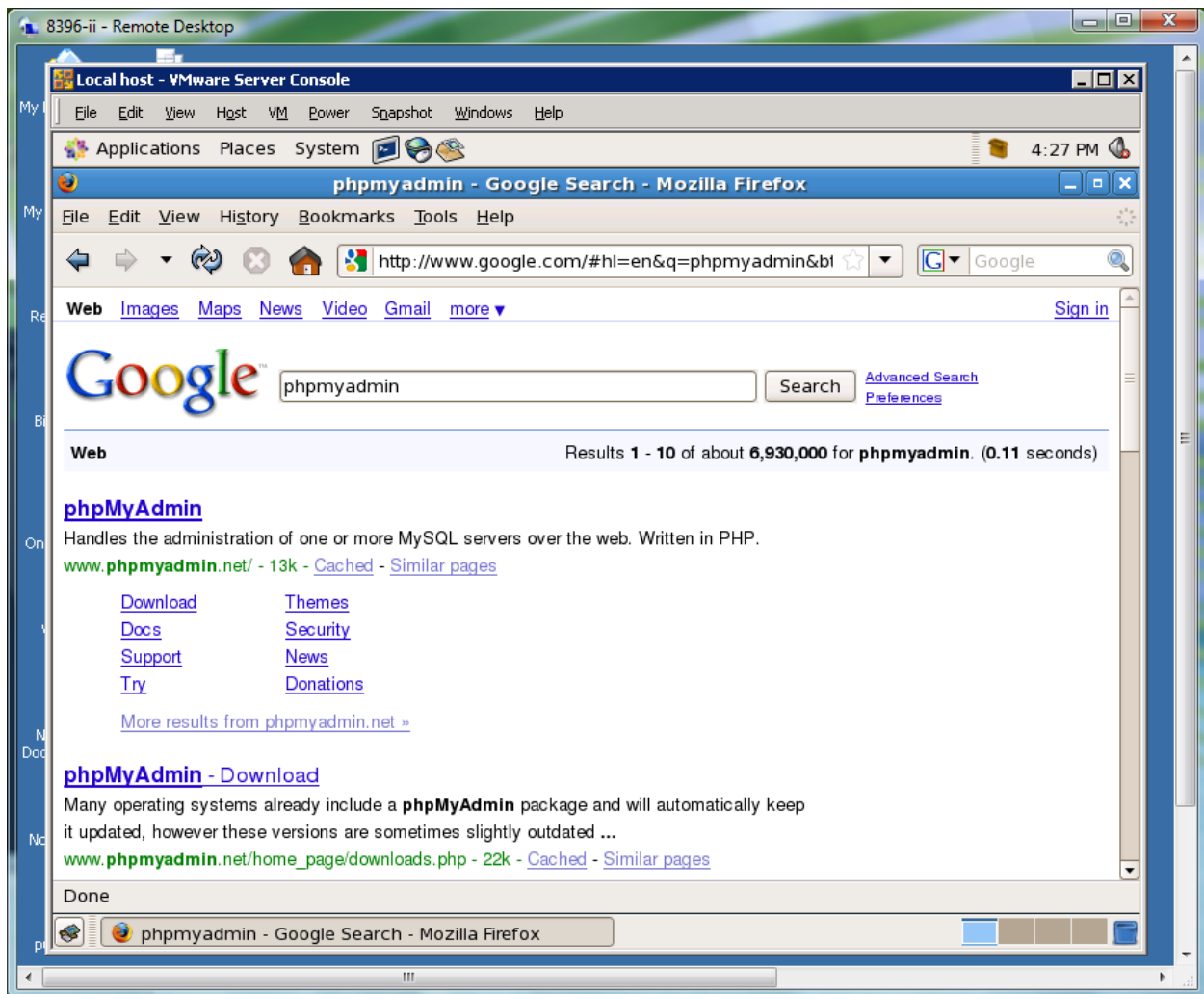
$no_list_for_subscribe = false;
$smtp_auth_mech = 'none';
$imap_auth_mech = 'login';
$use_imap_tls = false;
$use_smtp_tls = false;
$session_name = 'SQMSESSID';
$only_secure_cookies = true;

$config_location_base = '';

@include SM_PATH . 'config/config_local.php';

/**
 * Make sure there are no characters after the PHP closing
 * tag below (including newline characters and whitespace).
 * Otherwise, that character will cause the headers to be
 * sent and regular output to begin, which will majorly screw
 * things up when we try to send more headers later.
 */
?>
[root@arwen ~]#
```

phpMyAdmin installation



8396-ii - Remote Desktop

Local host - VMware Server Console

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Applications Places System 5:01 PM

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http://www.phpmyadmin.net/home_page/index.pt

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phpMyAdmin

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About

phpMyAdmin is a free software tool written in **PHP** intended to handle the administration of **MySQL** over the World Wide Web. phpMyAdmin supports a wide range of operations with MySQL. The most frequently used operations are supported by the user interface (managing databases, tables, fields, relations, indexes, users, permissions, etc), while you still have the ability to directly execute any SQL statement.

phpMyAdmin comes with a wide range of **documentation** and users are welcome to update **our wiki pages** to share ideas and howtos for various operations. The **phpMyAdmin team** will try to help you if you face any problem, you can use **variety of support channels** to get help.

Download 3.1.4:
.zip .gz .bz2 .7z

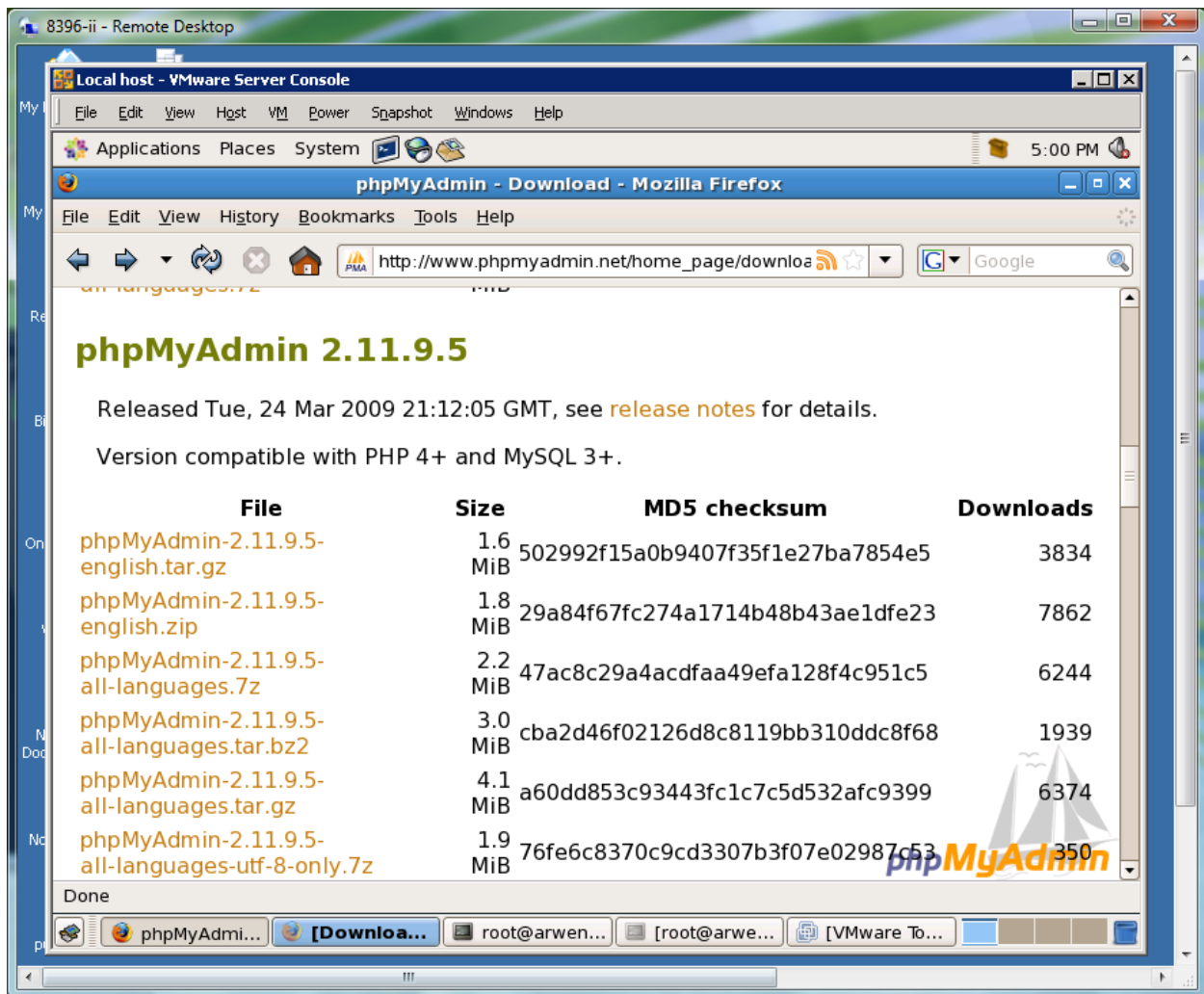
Try phpMyAdmin

Donate to phpMyAdmin



Download phpMyAdmin

Not the latest version, but one that will work with the version of php we have on Arwen



Install phpMyAdmin files

```
[root@arwen ~]# mv Desktop/phpMyAdmin-2.11.9.5-english.tar.gz depot/
[root@arwen ~]# cd depot/
[root@arwen depot]# tar xzvf phpMyAdmin-2.11.9.5-english.tar.gz
phpMyAdmin-2.11.9.5-english/
phpMyAdmin-2.11.9.5-english/scripts/
< snipped – see Appendix >
phpMyAdmin-2.11.9.5-english/pmd_relation_new.php
phpMyAdmin-2.11.9.5-english/Documentation.txt
phpMyAdmin-2.11.9.5-english/pdf_pages.php
[root@arwen depot]#
```

Move phpMyAdmin directory to /usr/share

```
[root@arwen depot]# mv phpMyAdmin-2.11.9.5-english /usr/share/
```

Make and edit phpMyAdmin config.inc.php file

```
[root@arwen depot]# cp /usr/share/phpMyAdmin-2.11.9.5-english/config.sample.inc.php /usr/share/phpMyAdmin-2.11.9.5-english/config.inc.php
```

```
[root@arwen depot]# vi /usr/share/phpMyAdmin-2.11.9.5-english/config.inc.php
[root@arwen depot]# cat /usr/share/phpMyAdmin-2.11.9.5-english/config.inc.php
<?php
/* vim: set expandtab sw=4 ts=4 sts=4: */
/**
 * phpMyAdmin sample configuration, you can use it as base for
 * manual configuration. For easier setup you can use scripts/setup.php
 *
 * All directives are explained in Documentation.html and on phpMyAdmin
 * wiki <http://wiki.phpmyadmin.net>.
 *
 * @version $Id: config.sample.inc.php 12304 2009-03-24 12:56:58Z nijel $
 */

/*
 * This is needed for cookie based authentication to encrypt password in
 * cookie
 */
$cfg['blowfish_secret'] = 'Secret'; /* YOU MUST FILL IN THIS FOR COOKIE AUTH!
*/

/*
 * Servers configuration
 */
$i = 0;

/*
 * First server
 */
$i++;
/* Authentication type */
$cfg['Servers'][$i]['auth_type'] = 'cookie';
/* Server parameters */
$cfg['Servers'][$i]['host'] = 'localhost';
$cfg['Servers'][$i]['connect_type'] = 'tcp';
$cfg['Servers'][$i]['compress'] = false;
/* Select mysqli if your server has it */
$cfg['Servers'][$i]['extension'] = 'mysqli';
/* User for advanced features */
// $cfg['Servers'][$i]['controluser'] = 'root';
// $cfg['Servers'][$i]['controlpass'] = 'Secret';
/* Advanced phpMyAdmin features */
// $cfg['Servers'][$i]['pmadb'] = 'phpmyadmin';
// $cfg['Servers'][$i]['bookmarktable'] = 'pma_bookmark';
// $cfg['Servers'][$i]['relation'] = 'pma_relation';
// $cfg['Servers'][$i]['table_info'] = 'pma_table_info';
// $cfg['Servers'][$i]['table_coords'] = 'pma_table_coords';
```

```
// $cfg['Servers'][$i]['pdf_pages'] = 'pma_pdf_pages';
// $cfg['Servers'][$i]['column_info'] = 'pma_column_info';
// $cfg['Servers'][$i]['history'] = 'pma_history';
// $cfg['Servers'][$i]['designer_coords'] = 'pma_designer_coords';

/*
 * End of servers configuration
 */

/*
 * Directories for saving/loading files from server
 */
$cfg['UploadDir'] = '';
$cfg['SaveDir'] = '';

?>
[root@arwen depot]#
```

Add phpmyadmin alias to httpd configuration file

Add right below the SquirrelMail alias

```
[root@arwen depot]# cat -n /etc/httpd/conf/httpd.conf | head -557 | tail -10
 548 Alias /squirrelmail /usr/share/squirrelmail/
 549 <Directory /usr/share/squirrelmail/ >
 550     Options None
 551     AllowOverride None
 552     DirectoryIndex index.php
 553     Order Allow,Deny
 554     Allow from all
 555 </Directory>
 556
 557 Alias /phpmyadmin /usr/share/phpMyAdmin-2.11.9.5-english/
[root@arwen depot]#
```

```
[root@arwen depot]# vi /etc/httpd/conf/httpd.conf
[root@arwen depot]# service httpd restart
```

```
Stopping httpd:           [ OK ]
Starting httpd:          [ OK ]
```

Install php-mcrypt with is used by phpMyAdmin

```
[root@arwen depot]# yum install php-mcrypt
Loading "fastestmirror" plugin
Loading mirror speeds from cached hostfile
 * base: mirror.steadfast.net
 * updates: mirror.steadfast.net
 * addons: mirror.hmc.edu
 * extras: mirrors.xmission.com
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package php-mcrypt.i386 0:5.1.6-15.el5.centos.1 set to be updated
--> Processing Dependency: libmcrypt.so.4 for package: php-mcrypt
```

--> Running transaction check
---> Package libmccrypt.i386 0:2.5.8-4.el5.centos set to be updated
--> Finished Dependency Resolution

Dependencies Resolved

```
=====
Package                Arch          Version          Repository        Size
=====
Installing:
php-mcrypt             i386          5.1.6-15.el5.centos.1  extras           16 k
Installing for dependencies:
libmccrypt             i386          2.5.8-4.el5.centos  extras           116 k
=====
```

Transaction Summary

```
=====
Install      2 Package(s)
Update       0 Package(s)
Remove       0 Package(s)
=====
```

Total download size: 132 k

Is this ok [y/N]: y

Downloading Packages:

```
(1/2): php-mcrypt-5.1.6-1 100% |=====| 16 kB 00:00
(2/2): libmccrypt-2.5.8-4. 100% |=====| 116 kB 00:00
```

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

```
Installing: libmccrypt          ##### [1/2]
Installing: php-mcrypt          ##### [2/2]
```

Installed: php-mcrypt.i386 0:5.1.6-15.el5.centos.1

Dependency Installed: libmccrypt.i386 0:2.5.8-4.el5.centos

Complete!

[root@arwen depot]#


phpMyAdmin - Mozilla Firefox

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http://172.30.4.107/phpmyadmin/index.php?token=78917916f38289aa199ef8e87e7124aa&old_usi
realtor.com

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phpMyAdmin PHP: Mcrypt - Manual



Welcome to phpMyAdmin

Language
English (utf-8)

Log in
Username: root
Password: ●●●●●●

Go

Done

172.30.4.107 / localhost | phpMyAdmin 2.11.9.5 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/phpmyadmin/index.php?lang=en-utf-8&token=a4aabd3bc5206d298872fae6c

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

172.30.4.107 / localhost | phpMy... PHP: Mcrypt - Manual

Do you want Firefox to remember this password? Remember Never for This Site Not Now

phpMyAdmin

- information_schema (17)
- mysql (17)
- squirrelmail (2)
- test (0)


Please select a database

localhost

- Server version: 5.0.45
 - Protocol version: 10
 - Server: Localhost via UNIX socket
 - User: root@localhost
- MySQL charset: UTF-8 Unicode (utf8)
- MySQL connection collation: utf8_unicode_ci
- Create new database Collation
- Show MySQL runtime information
- Show MySQL system variables
- Processes
- Character Sets and Collations
- Storage Engines
- Reload privileges
- Privileges
- Databases
- Export
- Import
- Log out

phpMyAdmin - 2.11.9.5

- MySQL client version: 5.0.45
- Used PHP extensions: mysql
- Language: English
- Theme / Style: Original
- Font size: 82%
- phpMyAdmin documentation
- phpMyAdmin wiki
- Official phpMyAdmin Homepage
- [ChangeLog] [Subversion] [Lists]



Done

172.30.4.107 / localhost / squirrelmail | phpMyAdmin 2.11.9.5 - Mozilla Firefox

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http://172.30.4.107/phpmyadmin/index.php?db=squirrelmail&token=738f420930296cecd986ab

phpMyAdmin

Database: squirrelmail (2)

squirrelmail (2)

- address
- userprefs

Server: localhost Database: squirrelmail

Structure SQL Search Query Export Import Operations Privileges Drop

Table	Action	Records	Type	Collation	Size	Overhead
<input type="checkbox"/> address		2	MyISAM	latin1_swedish_ci	4.1 KiB	-
<input type="checkbox"/> userprefs		6	MyISAM	latin1_swedish_ci	2.3 KiB	-
2 table(s) Sum		8	MyISAM	latin1_swedish_ci	6.4 KiB	0 B

Check All / Uncheck All With selected: ▾

Print view Data Dictionary

Create new table on database squirrelmail

Name: Number of fields:

Go

Open new phpMyAdmin window

Done

172.30.4.107 / localhost / squirrelmail / address | phpMyAdmin 2.11.9.5 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.30.4.107/phpmyadmin/index.php?db=squirrelmail&token=738f420930296cecd986ab

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

phpMyAdmin

Database: squirrelmail (2)

squirrelmail (2)

address (selected)

userprefs

Server: localhost Database: squirrelmail Table: address

Browse Structure SQL Search Insert Export Import Operations Empty Drop

Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> owner	varchar(128)	latin1_swedish_ci		No			[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]
<input type="checkbox"/> nickname	varchar(16)	latin1_swedish_ci		No			[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]
<input type="checkbox"/> firstname	varchar(128)	latin1_swedish_ci		No			[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]
<input type="checkbox"/> lastname	varchar(128)	latin1_swedish_ci		No			[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]
<input type="checkbox"/> email	varchar(128)	latin1_swedish_ci		No			[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]
<input type="checkbox"/> label	varchar(255)	latin1_swedish_ci		Yes	NULL		[edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]

Check All / Uncheck All With selected: [edit] [delete] [add] [refresh] [lock] [unlock] [copy] [paste]

Print view Propose table structure

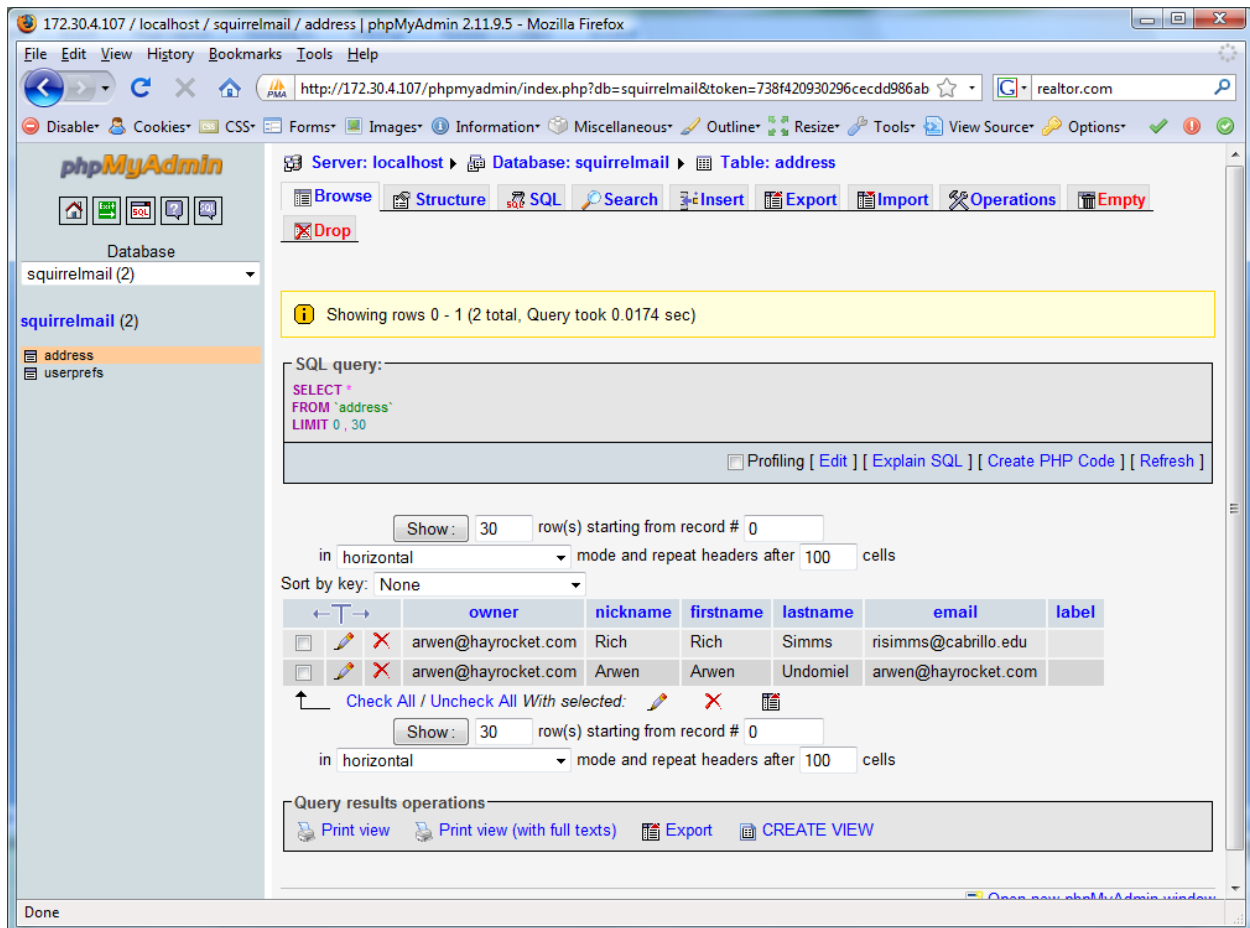
Add 1 field(s) At End of Table At Beginning of Table After owner Go

Indexes: ?					Space usage	
Keyname	Type	Cardinality	Action	Field	Type	Usage
PRIMARY	PRIMARY	2	[edit] [delete]	owner nickname	Data	132 B
firstname	INDEX	None	[edit] [delete]	firstname lastname	Index	4,096 B
					Total	4,228 B

Create an index on 1 columns Go

Row Statistics	
Statements	Value
Format	dynamic
Collation	latin1_swedish_ci
Rows	2
Row length ø	66
Row size ø	2,114 B

Done



Troubleshooting

Arwen /var/log/maillog:

```
Apr 28 13:19:32 arwen sendmail[4665]: starting daemon (8.13.8):
SMTP+queueing@01:00:00
Apr 28 13:19:32 arwen sm-msp-queue[4673]: starting daemon (8.13.8):
queueing@01:00:00
Apr 28 13:23:33 arwen sendmail[4666]: n3SJtuGX013377:
to=<arwen@hayrocket.com>, delay=00:27:37, xdelay=00:04:00, mailer=esmtpt,
pri=211104, relay=mx1.balanced.spacey.mail.dreamhost.com. [208.113.200.51],
dsn=4.0.0, stat=Deferred: Connection timed out with
mx1.balanced.spacey.mail.dreamhost.com.
Apr 28 13:23:33 arwen sendmail[4666]: n3SJV9Kb013382:
to=<arwen@hayrocket.com>, delay=00:26:24, xdelay=00:00:00, mailer=esmtpt,
pri=211104, relay=mx1.balanced.spacey.mail.dreamhost.com., dsn=4.0.0,
stat=Deferred: Connection timed out with
mx1.balanced.spacey.mail.dreamhost.com.
```

Solution: changed Squirrelmail config.php to use smtp rather than sendmail

```
[root@arwen bin]# host mx.cruzio.com
mx.cruzio.com is an alias for mail.cruzio.com.
mail.cruzio.com has address 63.249.95.37
```

```
[root@arwen bin]# host mail.hayrocket.com
mail.hayrocket.com has address 208.113.200.50
mail.hayrocket.com mail is handled by 0
mx1.balanced.spacey.mail.dreamhost.com.
mail.hayrocket.com mail is handled by 0
mx2.balanced.spacey.mail.dreamhost.com.
[root@arwen bin]#
```

http://localhost/squirrelmail/src/configtest.php:

ERROR: Required PHP PEAR DB support is not available. Is PEAR installed and is the include path set correctly to find DB.php? The include path is now: ".:usr/share/pear:/usr/share/php".

Solution: yum install php-pear-DB

http://localhost/squirrelmail/src/configtest.php:

ERROR: mysql database support is not present

Solution: service mysqld restart and service httpd restart

http://localhost/squirrelmail/src/configtest.php:

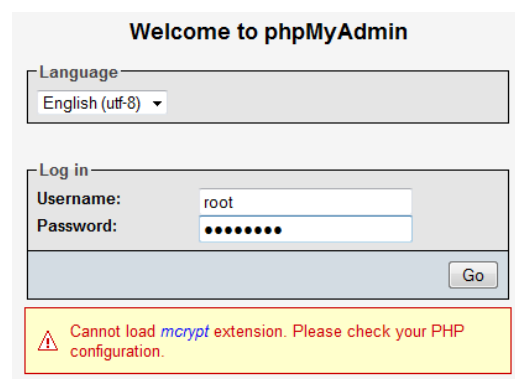
ERROR: Database error: connect failed in addressbook DSN.

Solution: Using:

```
    /usr/share/squirrelmail/config/conf.pl
Had a typo with lowercase c on password in
    /etc/squirrelmail/config.php:
$addrbook_dsn = 'mysql://root:Secret@localhost/squirrelmail';
```

phpMyAdmin:

Warning on login page: Cannot load mcrypt extension

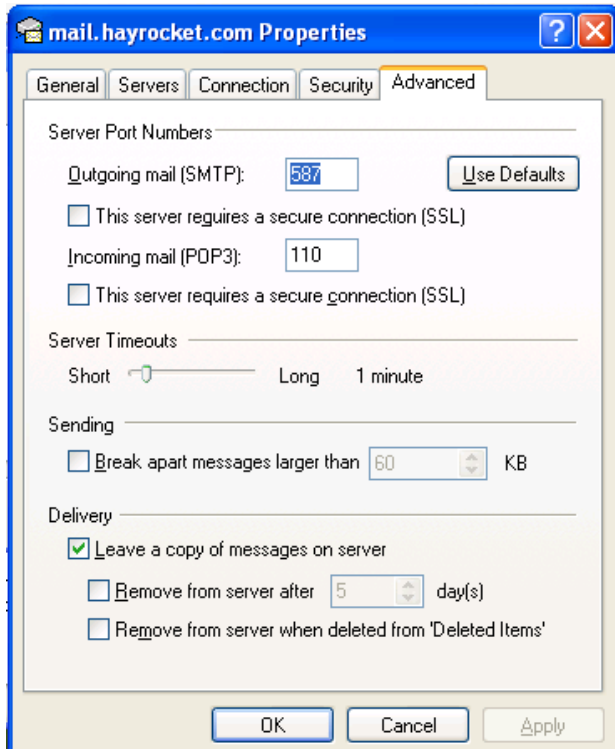
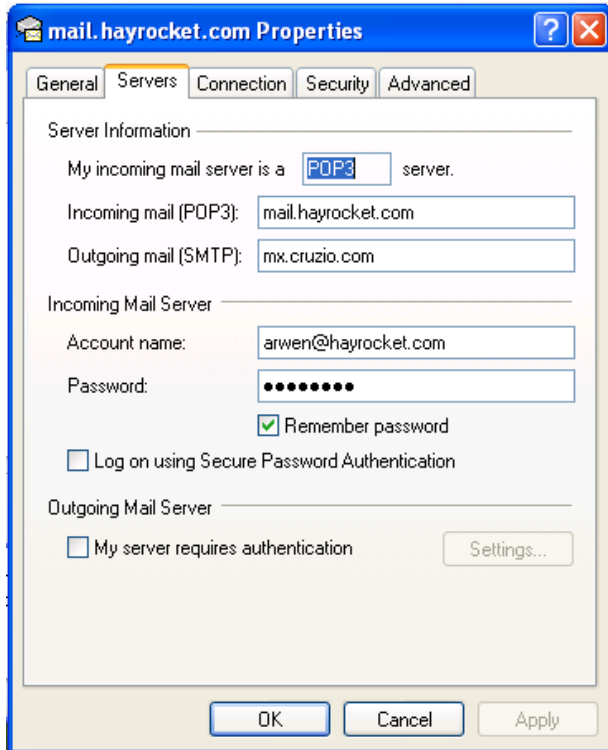


The screenshot shows the phpMyAdmin login interface. At the top, it says "Welcome to phpMyAdmin". Below that is a "Language" dropdown menu set to "English (utf-8)". Underneath is a "Log in" section with "Username:" and "Password:" labels, input fields containing "root" and "*****" respectively, and a "Go" button. At the bottom, there is a red-bordered warning box with a triangle icon and the text: "Cannot load mcrypt extension. Please check your PHP configuration."

Solution: `yum install php-mcrypt`

Appendix - William's Configuration

Used Outlook Express on William to troubleshoot smtp send problem. Could not access the smtp server mail.hayrocket.com port 25. Had to switch to mx.cruzio.com port 587. This may be done by Cruzio to put a lid on spammers.



No. .	Time	SIP	SP	DIP	DP	Protocol	Info
1	0.000000	Vmware_d4:38:ad		Broadcast		ARP	Who has 172.30.4.1? Tell 172.30.4.193
2	0.000563	Vmware_30:16:94		Vmware_d4:38:ad		ARP	172.30.4.1 is at 00:0c:29:30:16:94
3	0.004064	172.30.4.193	60486	207.62.187.54	53	DNS	Standard query A mx.cruzio.com
4	0.040443	207.62.187.54	53	172.30.4.193	60486	DNS	Standard query response CNAME mail.cruzio.com A 63.249.95.37
5	0.076667	172.30.4.193	1211	63.249.95.37	587	TCP	groove-dpp > submission [SYN] Seq=0 Win=65535 Len=0 MSS=1460
6	0.118109	63.249.95.37	587	172.30.4.193	1211	TCP	submission > groove-dpp [SYN, ACK] Seq=0 Ack=1 Win=57344 Len=0 MSS=1
7	0.118132	172.30.4.193	1211	63.249.95.37	587	TCP	groove-dpp > submission [ACK] Seq=1 Ack=1 Win=65535 Len=0
8	0.215436	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 220 mail.cruzio.com ESMTP ready at Fri, 1 May 2009 16:16:1
9	0.221450	172.30.4.193	1211	63.249.95.37	587	SMTP	Command: HELO william
10	0.270768	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 250 mail.cruzio.com Hello dsl-63-249-103-107.dhcp.cruzio.c
11	0.278412	172.30.4.193	1211	63.249.95.37	587	SMTP	Command: MAIL FROM: <arwen@hayrocket.com>
12	0.334837	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 250 2.1.0 <arwen@hayrocket.com>... Sender ok
13	0.335876	172.30.4.193	1211	63.249.95.37	587	SMTP	Command: RCPT TO: <arwen@hayrocket.com>
14	0.391946	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 250 2.1.5 <arwen@hayrocket.com>... Recipient ok
15	0.393036	172.30.4.193	1211	63.249.95.37	587	SMTP	Command: DATA
16	0.439680	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 354 Enter mail, end with "." on a line by itself
17	0.442693	172.30.4.193	1211	63.249.95.37	587	SMTP	DATA fragment, 1239 bytes
18	0.626332	63.249.95.37	587	172.30.4.193	1211	TCP	submission > groove-dpp [ACK] Seq=319 Ack=1326 Win=58400 Len=0
19	0.627636	172.30.4.193	1211	63.249.95.37	587	IMF	from: "Arwen" <arwen@hayrocket.com>, subject: William 587 to mx, (t
20	0.709203	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 250 2.0.0 n41NGCjR056013 Message accepted for delivery
21	0.710193	172.30.4.193	1211	63.249.95.37	587	SMTP	Command: QUIT
22	0.778188	63.249.95.37	587	172.30.4.193	1211	SMTP	Response: 221 2.0.0 mail.cruzio.com closing connection
23	0.778232	63.249.95.37	587	172.30.4.193	1211	TCP	submission > groove-dpp [FIN, ACK] Seq=421 Ack=1337 Win=58400 Len=0
24	0.778245	172.30.4.193	1211	63.249.95.37	587	TCP	groove-dpp > submission [ACK] Seq=1337 Ack=422 Win=65115 Len=0
25	0.778257	172.30.4.193	1211	63.249.95.37	587	TCP	groove-dpp > submission [FIN, ACK] Seq=1337 Ack=422 Win=65115 Len=0
26	0.855050	63.249.95.37	587	172.30.4.193	1211	TCP	submission > groove-dpp [ACK] Seq=422 Ack=1338 Win=58400 Len=0
27	5.032224	Vmware_30:16:94		Vmware_d4:38:ad		ARP	Who has 172.30.4.193? Tell 172.30.4.1
28	5.033008	Vmware_d4:38:ad		Vmware_30:16:94		ARP	172.30.4.193 is at 00:0c:29:d4:38:ad

William send error

The connection to the server has failed. Account: 'mail.hayrocket.com', Server: 'mail.hayrocket.com', Protocol: SMTP, Port: 25, Secure(SSL): No, Socket Error: 10060, Error Number: 0x800CCC0E

You are on an ISP that blocks their users using any SMTP server other than their own. Your solution is as follows:

To set up your ISP's SMTP servers for your outgoing email you must click on your account settings in the email client you are using (Outlook Express, Eudora, Netscape etc.)

In the SMTP (outgoing mail server) field you will enter whatever your dial up or direct access ISP's SMTP server is as your SMTP server. You must then enter your ISP's username and password for that mail server.

In Outlook Express it is at the bottom of that same tab. You must uncheck 'My server requires authentication' and click on 'settings' to enter your ISP's username and password.

Your email will still be from your own domain name, the only difference is in the way it is routed throughout the Internet. Instead of being sent through our servers it is processed through your ISP's servers. This allows your ISP to monitor its users.

Source: <http://www.ehosting.ca/faq/faq.php?display=faq&nr=187&catnr=6&prog=1&lang=en>

Solution: I had to use Cruzio's smtp server with port 587 instead of hayrocket smtp server port 25 to fix this.

Appendix - Used 'Other' settings from file below for dreamhost IMAP server

Note: 'hmailserver' works with dreamhost.com imap server

```
[root@arwen cgi-bin]# cat /usr/share/doc/squirrelmail-1.4.8/presets.txt
$Date: 2005/11/09 17:53:43 $
```

This file lists squirrelmail options set by D option in conf.pl

It can be used if user can't run conf.pl and changes options manually.
Settings can be different if IMAP server uses shared folders.

Possible server values are:

```
bincimap      = Binc IMAP server
courier       = Courier IMAP server
cyrus         = Cyrus IMAP server
dovecot       = Dovecot Secure IMAP server
exchange     = Microsoft Exchange IMAP server
hmailserver  = hMailServer
macosx        = Mac OS X Mailserver
mercury32    = Mercury/32
uw            = University of Washington's IMAP server
```

default settings:

```
imap_server_type = other
default_folder_prefix =
trash_folder = INBOX.Trash
sent_folder = INBOX.Sent
draft_folder = INBOX.Drafts
show_prefix_option = false
default_sub_of_inbox = true
show_contain_subfolders_option = false
optional_delimiter = detect
delete_folder = false
force_username_lowercase = false
```

'cyrus' settings:

```
imap_server_type = cyrus
default_folder_prefix = <none> (is not set)
trash_folder = INBOX.Trash
sent_folder = INBOX.Sent
draft_folder = INBOX.Drafts
show_prefix_option = false
default_sub_of_inbox = true
show_contain_subfolders_option = false
optional_delimiter = .
delete_folder = true
force_username_lowercase = false
```

'uw' settings:

```
-----  
imap_server_type = uw  
default_folder_prefix = mail/  
trash_folder = Trash  
sent_folder = Sent  
draft_folder = Drafts  
show_prefix_option = true  
default_sub_of_inbox = false  
show_contain_subfolders_option = true  
optional_delimiter = /  
delete_folder = true  
force_username_lowercase = true
```

'exchange' settings:

```
-----  
imap_server_type = exchange  
default_folder_prefix = <none> (is not set)  
trash_folder = INBOX/Deleted Items  
sent_folder = INBOX/Sent Items  
draft_folder = Drafts  
show_prefix_option = false  
default_sub_of_inbox = true  
show_contain_subfolders_option = false  
optional_delimiter = detect  
delete_folder = true  
force_username_lowercase = true
```

'courier' settings:

```
-----  
imap_server_type = courier  
default_folder_prefix = INBOX.  
trash_folder = Trash  
sent_folder = Sent  
draft_folder = Drafts  
show_prefix_option = false  
default_sub_of_inbox = false  
show_contain_subfolders_option = false  
optional_delimiter = .  
delete_folder = true  
force_username_lowercase = false
```

'macosx' settings:

```
-----  
imap_server_type = macosx  
default_folder_prefix = INBOX/  
trash_folder = Trash  
sent_folder = Sent  
draft_folder = Drafts  
show_prefix_option = false  
default_sub_of_inbox = true  
show_contain_subfolders_option = false  
optional_delimiter = detect  
delete_folder = true
```

```
force_username_lowercase = false
```

```
-----  
'hmailserver' settings:  
-----
```

```
imap_server_type = hmailserver    (used in imap_search.php)  
default_folder_prefix =  
trash_folder = INBOX.Trash  
sent_folder = INBOX.Sent  
draft_folder = INBOX.Drafts  
show_prefix_option = false  
default_sub_of_inbox = true  
show_contain_subfolders_option = false  
optional_delimiter = detect  
delete_folder = false  
force_username_lowercase = false
```

```
-----  
'mercury32' settings:  
-----
```

Preset is used for Mercury Mail Transport System. Available since 1.5.0 and 1.4.6

Free email server for Win32 and Netware.

Tested Win32 v.4.01b

CAPABILITY IMAP4rev1 X-MERCURY

PERMANENTFLAGS (\Deleted \Draft \Seen \Answered)

Comments:

- * Server side sorting and threading are not supported.
- * Message flags are not supported.
- * IMAP folders can store messages _or_ other folders.
- * Supports STARTTLS, if configured.
- * May have issues with 8bit IMAP folder names.

Site URL: <http://www.pmail.com>

```
imap_server_type = mercury32  
default_folder_prefix = <none> (is set to empty string)  
trash_folder = Trash  
sent_folder = Sent  
draft_folder = Drafts  
show_prefix_option = false  
default_sub_of_inbox = true  
show_contain_subfolders_option = true  
optional_delimiter = detect  
delete_folder = true  
force_username_lowercase = true
```

```
-----  
'dovecot' settings:  
-----
```

Preset used for Dovecot Secure IMAP server. Available since 1.5.1 and 1.4.6.

There is no code specific to Dovecot IMAP server. Preset provides only a quick

way to set correct folder settings.

Tested v.0.99.14

```
CAPABILITY IMAP4rev1 SORT THREAD=REFERENCES MULTIAPPEND UNSELECT LITERAL+
IDLE
```

```
CHILDREN LISTTEXT LIST-SUBSCRIBED NAMESPACE
```

```
PERMANENTFLAGS (\Answered \Flagged \Deleted \Seen \Draft \*)
```

IMAP server supports server side sorting and threading.

Site URL: <http://www.dovecot.org>

```
imap_server_type = dovecot
default_folder_prefix = <none> (is set to empty string)
trash_folder = Trash
sent_folder = Sent
draft_folder = Drafts
show_prefix_option = false
default_sub_of_inbox = false
show_contain_subfolders_option = false
optional_delimiter = detect
delete_folder = false
force_username_lowercase = true
```

'bincimap' settings:

Preset is used with Binc IMAP server. Available since 1.5.1 and 1.4.6.
Tested v.1.2.13 and 1.3.4

```
CAPABILITY IMAP4rev1 STARTTLS AUTH=LOGIN AUTH=PLAIN (1.2.13)
CAPABILITY IMAP4rev1 STARTTLS AUTH=LOGIN AUTH=PLAIN IDLE LITERAL+ NAMESPACE
CHILDREN (1.3.4)
```

```
PERMANENTFLAGS (\Answered \Flagged \Deleted \Seen \Draft) - 1.2.13
PERMANENTFLAGS (\Answered \Flagged \Deleted \Seen \Draft \*) - 1.3.4
```

IMAP server does not support server side sorting and threading. Plain text logins are disabled by default. Due to available storage backend configuration options it is impossible to create single preset, which covers all setups.

Site URL: <http://www.bincimap.org>

```
* Default (1.2.13) configuration with Maildir++ depot and / delimiter
imap_server_type = bincimap (is used to handle INBOX in folder
management)
default_folder_prefix = INBOX/
trash_folder = Trash
sent_folder = Sent
draft_folder = Drafts
show_prefix_option = false
default_sub_of_inbox = false
show_contain_subfolders_option = false
optional_delimiter = / (can be set to 'detect')
delete_folder = true
```

```

force_username_lowercase = false (depends on checkpassword)

* Default (1.3.4) configuration with IMAPdir depot - same as dovecot ?
imap_server_type = bincimap
default_folder_prefix = <none> (is set to empty string)
trash_folder = Trash
sent_folder = Sent
draft_folder = Drafts
show_prefix_option = false
default_sub_of_inbox = false
show_contain_subfolders_option = false
optional_delimiter = / (can be set to 'detect')
delete_folder = true
force_username_lowercase = false (depends on checkpassword)

* Configuration with Maildir++ depot and . delimiter - use courier preset.
[root@arwen cgi-bin]#

```

phpMyAdmin files

```

[root@arwen depot]# tar xzvf phpMyAdmin-2.11.9.5-english.tar.gz
phpMyAdmin-2.11.9.5-english/
phpMyAdmin-2.11.9.5-english/scripts/
phpMyAdmin-2.11.9.5-english/scripts/find_unused_messages.sh
phpMyAdmin-2.11.9.5-english/scripts/remove_control_m.sh
phpMyAdmin-2.11.9.5-english/scripts/lang-cleanup.sh
phpMyAdmin-2.11.9.5-english/scripts/create_tables_mysql_4_1_2+.sql
phpMyAdmin-2.11.9.5-english/scripts/upgrade.pl
phpMyAdmin-2.11.9.5-english/scripts/signon.php
phpMyAdmin-2.11.9.5-english/scripts/setup.php
phpMyAdmin-2.11.9.5-english/scripts/create-release.sh
phpMyAdmin-2.11.9.5-english/scripts/upgrade_tables_mysql_4_1_2+.sql
phpMyAdmin-2.11.9.5-english/scripts/check_lang.php
phpMyAdmin-2.11.9.5-english/scripts/decode_bug.php
phpMyAdmin-2.11.9.5-english/scripts/convertcfg.pl
phpMyAdmin-2.11.9.5-english/scripts/create_tables.sql
phpMyAdmin-2.11.9.5-english/show_config_errors.php
phpMyAdmin-2.11.9.5-english/error.php
phpMyAdmin-2.11.9.5-english/db_printview.php
phpMyAdmin-2.11.9.5-english/pdf_schema.php
phpMyAdmin-2.11.9.5-english/js/
phpMyAdmin-2.11.9.5-english/js/user_password.js
phpMyAdmin-2.11.9.5-english/js/keyhandler.js
phpMyAdmin-2.11.9.5-english/js/tbl_change.js
phpMyAdmin-2.11.9.5-english/js/functions.js
phpMyAdmin-2.11.9.5-english/js/dom-drag.js
phpMyAdmin-2.11.9.5-english/js/tooltip.js
phpMyAdmin-2.11.9.5-english/js/querywindow.js
phpMyAdmin-2.11.9.5-english/js/indexes.js
phpMyAdmin-2.11.9.5-english/js/navigation.js
phpMyAdmin-2.11.9.5-english/js/server_privileges.js
phpMyAdmin-2.11.9.5-english/lang/
phpMyAdmin-2.11.9.5-english/lang/add_message.sh
phpMyAdmin-2.11.9.5-english/lang/sync_lang.sh

```

phpMyAdmin-2.11.9.5-english/lang/english-utf-8.inc.php
phpMyAdmin-2.11.9.5-english/lang/sort_lang.sh
phpMyAdmin-2.11.9.5-english/lang/check_lang.sh
phpMyAdmin-2.11.9.5-english/lang/remove_message.sh
phpMyAdmin-2.11.9.5-english/lang/translatecount.sh
phpMyAdmin-2.11.9.5-english/lang/add_message_file.sh
phpMyAdmin-2.11.9.5-english/tbl_addfield.php
phpMyAdmin-2.11.9.5-english/phpmyadmin.css.php
phpMyAdmin-2.11.9.5-english/server_import.php
phpMyAdmin-2.11.9.5-english/tbl_structure.php
phpMyAdmin-2.11.9.5-english/server_export.php
phpMyAdmin-2.11.9.5-english/tbl_create.php
phpMyAdmin-2.11.9.5-english/chk_rel.php
phpMyAdmin-2.11.9.5-english/pmd_save_pos.php
phpMyAdmin-2.11.9.5-english/db_import.php
phpMyAdmin-2.11.9.5-english/tbl_operations.php
phpMyAdmin-2.11.9.5-english/tbl_select.php
phpMyAdmin-2.11.9.5-english/main.php
phpMyAdmin-2.11.9.5-english/contrib/
phpMyAdmin-2.11.9.5-english/contrib/packaging/
phpMyAdmin-2.11.9.5-english/contrib/packaging/Fedora/
phpMyAdmin-2.11.9.5-english/contrib/packaging/Fedora/phpMyAdmin-http.conf
phpMyAdmin-2.11.9.5-english/contrib/packaging/Fedora/phpMyAdmin.spec
phpMyAdmin-2.11.9.5-english/contrib/README
phpMyAdmin-2.11.9.5-english/db_qbe.php
phpMyAdmin-2.11.9.5-english/pmd_relation_upd.php
phpMyAdmin-2.11.9.5-english/db_export.php
phpMyAdmin-2.11.9.5-english/Documentation.html
phpMyAdmin-2.11.9.5-english/docs.css
phpMyAdmin-2.11.9.5-english/test/
phpMyAdmin-2.11.9.5-english/test/Environment_test.php
phpMyAdmin-2.11.9.5-english/test/PMA_pow_test.php
phpMyAdmin-2.11.9.5-english/test/AllTests.php
phpMyAdmin-2.11.9.5-english/test/FailTest.php
phpMyAdmin-2.11.9.5-english/test/PMA_STR_sub_test.php
phpMyAdmin-2.11.9.5-english/test/PMA_transformation_getOptions_test.php
phpMyAdmin-2.11.9.5-english/test/theme.php
phpMyAdmin-2.11.9.5-english/test/PMA_escapeJsString_test.php
phpMyAdmin-2.11.9.5-english/test/PMA_get_real_size_test.php
phpMyAdmin-2.11.9.5-english/test/PMA_sanitize_test.php
phpMyAdmin-2.11.9.5-english/test/PMA_isValid_test.php
phpMyAdmin-2.11.9.5-english/tbl_change.php
phpMyAdmin-2.11.9.5-english/changelog.php
phpMyAdmin-2.11.9.5-english/server_variables.php
phpMyAdmin-2.11.9.5-english/translators.html
phpMyAdmin-2.11.9.5-english/server_binlog.php
phpMyAdmin-2.11.9.5-english/navigation.php
phpMyAdmin-2.11.9.5-english/pmd_display_field.php
phpMyAdmin-2.11.9.5-english/tbl_indexes.php
phpMyAdmin-2.11.9.5-english/user_password.php
phpMyAdmin-2.11.9.5-english/ChangeLog
phpMyAdmin-2.11.9.5-english/db_sql.php
phpMyAdmin-2.11.9.5-english/tbl_row_action.php
phpMyAdmin-2.11.9.5-english/index.php
phpMyAdmin-2.11.9.5-english/tbl_alter.php
phpMyAdmin-2.11.9.5-english/tbl_printview.php
phpMyAdmin-2.11.9.5-english/calendar.php

phpMyAdmin-2.11.9.5-english/config.sample.inc.php
phpMyAdmin-2.11.9.5-english/db_datadict.php
phpMyAdmin-2.11.9.5-english/server_sql.php
phpMyAdmin-2.11.9.5-english/themes/
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/css/
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/css/theme_right.css.php
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_dbstatistics.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/logo_right.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_print.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/window-new.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_host.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_tblanalyse.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_sql.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_lastpage.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_bookmark.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_notice.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_tblops.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_drop.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_prevpage.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_cancel.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_index.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_tbloptimize.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/bd_deltbl.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/arrow_rtl.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/arrow_ltr.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/spacer.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/error.ico
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_views.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/bd_nextpage.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_rights.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_sbrowse.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_edit.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/bd_insrow.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/bd_primary.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/s_vars.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/item.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/b_empty.png
phpMyAdmin-2.11.9.5-english/themes/darkblue_orange/img/bd_ftext.png
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