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Setup Local Mail Server Using Postfix, Dovecot An Squirrelmail On CentOS 6.5/6.4	d
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<b>Postfix</b> is a free open source mail transfer agent (MTA). It is easy to administer, fast and as well as the secure MTA. It's a alternative to Sendmail, which is the default MTA for RHEL.	n
Well, let us see how to setup a basic local mail server using Postfix, Dovecot and Squirrelmail On CentOS 6.5, although it sh on RHEL, Scientific Linux 6.x series.	ould work
For this tutorial, I use CentOS 6.5 32 bit minimal installation, with SELinux disabled. My test box details are given below.	
OS : CentOS 6.5 32 bit Minimal Installation (fresh installation) IP Address : 192.168.1.101/24 Hostname: server.unixmen.local	
Prerequisites 1. Remove default MTA sendmail first if it's already installed. Sendmail will not be installed by default in minimal installation, skip this step.	so you can
# yum remove sendmail	
2. Setup DNS server and add the Mail server MX records in the forward and reverse zone files. To install and configure DNS navigate to this link. And you'll need to contact your ISP to point your external static IP to your mail domain	server,

3. Add hostname entries in /etc/hosts file as shown below:

```
# vi /etc/hosts
```

127.0.0.1localhost localhost.localdomainlocalhost4localhost4.localdomain4::1localhost localhost.localdomainlocalhost6localhost6.localdomain6192.168.1.101server.unixmen.localserver

4. I disabled SELinux to reduce complexity in postfix configuration.

If you want to keep SELinux on, enter the following command in Terminal:

# togglesebool httpd\_can\_network\_connect

Note: I didn't check it and disabled SELinux completely. It was suggested by one of the unixmen regular reader Mr. Bob. I appreciate and thank him for the helpful tip.

5. Install EPEL Repository:

We will use Squirrelmail for webmail client. Squirrelmail will not be found on CentOS official repositories, so let us enable EPEL repository. Follow the below link to install and enable EPEL repository.

- Install EPEL Repository On CentOS / RHEL / Scientific Linux 6

6. Allow the Apache default port **80** through your firewall/router:

# vi /etc/sysconfig/iptables

[...]
-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
[...]

#### **Install Postfix**

Let us install postfix package using the command:

# yum install postfix -y

#### **Configuring Postfix**

Edit /etc/postfix/main.cf,

# vi /etc/postfix/main.cf

find and edit the following lines:

```
## Line no 75 - Uncomment and set your mail server FQDN ##
myhostname = server.unixmen.local
 ## Line 83 - Uncomment and Set domain name ##
 mvdomain = unixmen.local
 ## Line 99 - Uncomment ##
myorigin = $mydomain
 ## Line 116 - Set ipv4 ##
 inet_interfaces = all
 ## Line 119 - Change to all ##
inet_protocols = all
 ## Line 164 - Comment ##
 #mydestination = $myhostname, localhost.$mydomain, localhost,
 ## Line 165 - Uncomment ##\
 mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain
 ## Line 264 - Uncomment and add IP range ##
mynetworks = 192.168.1.0/24, 127.0.0.0/8
 ## Line 419 - Uncomment ##
home_mailbox = Maildir/
Save and exit the file. Start/restart Postfix service now:
```



<sup>#</sup> service postfix restart
# chkconfig postfix on

#### **Testing Postfix mail server**

First, create a test user called "SK".

# useradd sk

# passwd sk

Access the server via Telnet and enter the commands manually shown in red colored text.

# telnet localhost smtp

```
Trying ::1...
Connected to localhost.
Escape character is '^]'.
220 server.unixmen.local ESMTP Postfix
ehlo localhost
                ## type this command ##
250-server.unixmen.local
250-PIPELINING
250-SIZE 10240000
250-VRFY
250-ETRN
250-ENHANCEDSTATUSCODES
250-8BITMIME
250 DSN
mail from:<sk>
                ## Type this - mail sender address##
250 2.1.0 Ok
rcpt to:<sk>
                ## Type this - mail receiver address ##
250 2.1.5 Ok
data ## Type this to input email message ##
354 End data with <CR><LF>.<CR><LF>
welcome to unixmen mail server
                                ## Enter the boddy of the email ##.
     ## type dot (.) to complete message ##
250 2.0.0 Ok: queued as B822221522
       ## type this to quit from mail ##
quit
221 2.0.0 Bye
Connection closed by foreign host.
```

Now navigate to the user "sk" mail directory and check for the new mail:

```
# ls /home/sk/Maildir/new/
```

Sample output:

1390215275.Vfd00Ie04f8M357080.server.unixmen.local

A new mail is received to the user "sk". To read the mail, enter the following command:

# cat /home/sk/Maildir/new/1390215275.Vfd00Ie04f8M357080.server.unixmen.local

Sample output:

```
Return-Path: <sk@unixmen.local>
X-Original-To: sk
Delivered-To: sk@unixmen.local
Received: from localhost (localhost [IPv6:::1])
    by server.unixmen.local (Postfix) with ESMTP id B822221522
    for <sk>; Mon, 20 Jan 2014 16:23:54 +0530 (IST)
Message-Id: <20140120105404.B822221522@server.unixmen.local>
Date: Mon, 20 Jan 2014 16:23:54 +0530 (IST)
From: sk@unixmen.local
To: undisclosed-recipients:;
```



#### **Installing Dovecot**

**Dovecot** is an open source IMAP and POP3 mail server for Unix/Linux systems. To install:

# yum install dovecot

#### **Configuring Dovecot**

Edit the file /etc/dovecot/dovecot.conf file,

# vi /etc/dovecot/dovecot.conf

Uncomment the following line:

## Line 20 - umcomment ##
protocols = imap pop3 lmtp

#### Edit file /etc/dovecot/conf.d/10-mail.conf file

# vi /etc/dovecot/conf.d/10-mail.conf

Make the changes as shown below:

```
## Line 24 - uncomment ##
mail_location = maildir:~/Maildir
```

#### Edit /etc/dovecot/conf.d/10-auth.conf

# vi /etc/dovecot/conf.d/10-auth.conf

And make the changes as shown below:

```
## line 9 - uncomment##
disable_plaintext_auth = yes
```

```
## Line 97 - Add a letter "login" ##
auth_mechanisms = plain login
```

Edit file /etc/dovecot/conf.d/10-master.conf,

```
# vi /etc/dovecot/conf.d/10-master.conf
```

Make changes as shown below:

```
## Line 83, 84 - Uncomment and add "postfix"
#mode = 0600
user = postfix
group = postfix
```

Start Dovecot service:

```
# service dovecot start
# chkconfig dovecot on
```

#### **Testing Dovecot**

It's time to test Dovecot configuration. Enter the following command in Terminal:

# telnet localhost pop3

Enter the commands manually marked in red color:

Trying ::1...



```
Connected to localhost.
Escape character is '^]'.
+OK Dovecot ready.
         ## log in as user sk ##
user sk
+OK
pass centos
               ## input user password ##
+OK Logged in.
retr 1
+OK 439 octets
Return-Path: <sk@unixmen.local>
X-Original-To: sk
Delivered-To: sk@unixmen.local
Received: from localhost (localhost [IPv6:::1])
    by server.unixmen.local (Postfix) with ESMTP id B822221522
    for <sk>; Mon, 20 Jan 2014 16:23:54 +0530 (IST)
Message-Id: <20140120105404.B822221522@server.unixmen.local>
Date: Mon, 20 Jan 2014 16:23:54 +0530 (IST)
From: sk@unixmen.local
To: undisclosed-recipients:;
welcome to unixmen mail server
```

#### quit

+OK Logging out. Connection closed by foreign host.

As you see in the above, Dovecot is working!

Working with mail in command modes little bit difficult for us. So we will install a webmail client called Squirrelmail to send/receive emails via a web browser.

#### **Installing Squirrelmail**

Make sure that you've installed and enabled EPEL repository. Now install Squirrelmail using the following command:

# yum install squirrelmail -y

#### **Configuring Squirrelmail**

Navigate to /usr/share/squirrelmail/config/ directory and run the command conf.pl:

```
# cd /usr/share/squirrelmail/config/
```

# ./conf.pl

The following wizard will open. Enter choice "1" to set your organization details:

```
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
С
  Turn color off
S
  Save data
Q
   Quit
Command >> 1
```



The following wizard will open. Enter "1" again to modify your organization details:

SquirrelMail Configuration : Read: config.php (1.4.0)

- 0			
1.	Organization Name	:	SquirrelMail
2.	Organization Logo	:	/images/sm_logo.png
3.	Org. Logo Width/Height	:	(308/111)
4.	Organization Title	:	SquirrelMail \$version
5.	Signout Page	:	
6.	Top Frame	:	_top
7.	Provider link	:	<pre>http://squirrelmail.org/</pre>
8.	Provider name	:	SquirrelMail

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

```
Command >> 1
```

Set your Organization name and press Enter:

We have tried to make the name SquirrelMail as transparent as possible. If you set up an organization name, most places where SquirrelMail would take credit will be credited to your organization.

If your Organization Name includes a '\$', please precede it with a \.
Other '\$' will be considered the beginning of a variable that
must be defined before the \$org\_name is printed.
\$version, for example, is included by default, and will print the
string representing the current SquirrelMail version.

#### [SquirrelMail]: Unixmen

By this way, setup all the details such as organization title, logo, provider name in the above wizard. Once you done, press "S" to save changes and press "R" to return back to your main menu:

SquirrelMail Configuration : Read: config.php (1.4.0) \_\_\_\_\_ Organization Preferences 1. Organization Name : Unixmen 2. Organization Logo : ../images/sm\_logo.png Org. Logo Width/Height : (308/111) 3. 4. Organization Title : SquirrelMail \$version : 5. Signout Page : \_top 6. Top Frame : http://squirrelmail.org/ 7. Provider link : Unixmen Mail 8. Provider name R Return to Main Menu С Turn color off S Save data Quit 0 Command >> s Now enter "2" to setup mail Server settings such as domain name and mail agent etc.: 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 >> 2

Enter "1", Enter your mail domain (ex. unixmen. local) and press Enter key.

```
SquirrelMail Configuration : Read: config.php (1.4.0)
 _____
 Server Settings
 General
 -----
                : localhost
: false
 1. Domain
 2. Invert Time
3. Sendmail or SMTP
                       : Sendmail
A. Update IMAP Settings : localhost:143 (uw)
B. Change Sendmail Config : /usr/sbin/sendmail
R Return to Main Menu
 C Turn color off
S Save data
 Q Quit
Command >> 1
The domain name is the suffix at the end of all email addresses. If
 for example, your email address is \mathsf{jdoe}@\mathsf{example.com}, then your domain
would be example.com.
 [localhost]: unixmen.local
Enter "3" and change from sendmail to Postfix MTA (i.e. SMTP):
SquirrelMail Configuration : Read: config.php (1.4.0)
 -----
Server Settings
 General
 -----
                  : unixmen.local
: false
1. Domain
 2. Invert Time
3. Sendmail or SMTP
                      : Sendmail
A. Update IMAP Settings : localhost:143 (uw)
B. Change Sendmail Config : /usr/sbin/sendmail
 R Return to Main Menu
 С
    Turn color off
S
    Save data
 Q Quit
Command >> 3
```

Enter "2" to switch from sendmail MTA to postfix.



You now need to choose the method that you will use for sending messages in SquirrelMail. You can either connect to an SMTP server or use sendmail directly.

- 1. Sendmail
- 2. SMTP

Your choice [1/2] [1]: 2

Now enter ``S'' followed by ``Q'' to save and exit Squirrelmail configuration.

Create a squirrelmail vhost in apache config file:

# vi /etc/httpd/conf/httpd.conf

Add the following lines at the end:

Alias /squirrelmail /usr/share/squirrelmail <Directory /usr/share/squirrelmail> Options Indexes FollowSymLinks RewriteEngine On AllowOverride All DirectoryIndex index.php Order allow,deny Allow from all </Directory>

Restart the Apache service:

# service httpd restart

#### **Create users**

Create some users for testing. In my case i create two users called "senthil" and "kumar" respectively.

# useradd senthil

- # useradd kumar
- # passwd senthil
- # passwd kumar

#### **Access Webmail**

Now navigate to **http://ip-address/webmail** or **http://domain-name/webmail** from your browser. The following screen should appear. Enter the username and password of the user.

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File Edit View History Bookmarks Tools Help			
Unixmen-Login +			
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	SquirrelMail		
	webmail		
	for		
	nuts		
	SquirrelMail version 1.4.22-3.el6		
	By the SquirrelMail Project Team		
	Neme Login		
	Name: senthil		
	Password:		
	Login		
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to access the user sentini main		an non user sem	



		share Dashmashs Task Hale			
	SquirrelMail 1.4.2	2-3.el6			
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ser "	senthil <sup>™</sup> a SquirrelMail 1.4.2 ← ⇒ Ø @ 19 Folders Last Rofrwsh: Mon, 512 pm (Check mail) INBOX (1) Drafts Sent Trash	Attach: E	rowse No file selected.	Add (max. 2 M) c for any new mail ox ( د ک) کې د Coogle	- + × Q Q Q V C Sign Out Unixmen Mail Viewing Message: 1 (1 total) Transform Selected Message: Read Unread Delete

Hurrah! We have got a new mail from **senthil@unixmen.local** mail id. To read the mail, click on it. You'll now be able to read, reply, delete or compose a new mail.

	SquirrelMail 1.4.22-3	.el6 - Mozilla Firefox	- + x			
File Edit View H	istory Bookmarks Tools Help					
← ⇒ 2 3 19	2.168.1.101/webmail/src/webmail.php	ି <b>-</b> ୯	🔀 - Google 🔍 😓 🥖 🛆			
Folders Last Rofresh: Mon, 5:12 pm (Check mail) INBOX (1) Drafts Sent Trash	Current Folder: INBOX Compose Addresses Folders Options Search Help		Sign_Out Unixmen Mail			
	Message List   Unread   Delete	Previous   Next	Forward   Forward as Attachment   Reply   Reply All			
	Subject: Reg. Test mail From: senthl@unkmen.local Date: Mon. January 20, 2014 5:11 To: kumar@unkmen.local Priority: Normal Options: View Full Header! View Printable Hello kumar! Greetings! Wilcom to unixmen mail system Regards, Senthil.	pm Version   Download this as a file ixmen.com				
	Delete & Prov   Delete & Next					
	Move to: INBOX * Move					

That's it for now. We've successfully configured a local mail server that will serve in/out mails within a local area network. But i want to configure a public mail server to send and receive mails to outside of our LAN, what should i do? That's not that difficult either.

You should configure mail server with a public IP and request your ISP to put the MX record of your mail server into their DNS server and you're done! Everything will be same as i described above.







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### Florian Miesenberger

Hello, is there a start script for ... /opt/graphite/bin/carbon-cache.py start and for ... ? /opt/graphite/bin/run-graphite-devel-server.py /opt/graphite/ Or is there a...



### WarumLinuxBesserIst

For German speaking people, here is my YouTube video how to update from 14.04 to...



## linuxnewbie

zip.org/download.html...

Suggest me an alternative of winzip(windows) for linux



## qgi

SK

Thanks !!! Just "Now you can access the phpmyadmin console by navigating to http://server-ip-address/phpmyadmin/ from your...

Peazip and 7-zip are good.. http://peazip.sourceforge.net/peazip-linux.html http://www.7-



## **darkangelights** How do i get this on chromebook?



#### hussam the php

SK

test is fail



# Enter the following commands from Terminal: sudo dpkg -i skype.deb sudo apt-get install -f That's it....







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