Setup mail server on ubuntu 14.04 (Postfix – dovecot)

Posted (http://www.krizna.com/ubuntu/setup-mail-server-ubuntu-14-04/)   👤 krizna (http://www.krizna.com/author/krizna/)   🗁 Ubuntu (http://www.krizna.com/category/ubuntu/),
Ubuntu 14.04 (http://www.krizna.com/category/ubuntu/ubuntu-14-04/)

This tutorial explains how to setup mail server on ubuntu 14.04 using postfix,dovecot and squirrelmail.
» Postfix (http://www.postfix.org/BASIC_CONFIGURATION_README.html) (for sending)
» Dovecot (http://www.dovecot.org/) (for receiving)
» Squirrelmail (http://squirrelmail.org/) (for webmail access).
Here i have used mail.krizna.com for hostname and krizna.com for Domain . please replace with your
domain .

Setup mail server on ubuntu 14.04

» Installing and configuring postfix
» Installing and configuring dovecot
» Installing and configuring squirrelmail

» Installing and configuring postfix

Step 1 » Assign static IP and hostname and add a host entry for the host name .
Assign hostname in /etc/hostname

 mail.krizna.com

Add a hostentry in /etc/hosts

 192.168.1.10 mail.krizna.com

Step 2 » Update the repositories.

 krizna@mail:~$ sudo apt-get update

Step 3 » Install postfix and dependencies . Press enter for all prompted questions during installation. we will do that in the next step.

 krizna@mail:~$ sudo apt-get install postfix

Step 4 » After installation issue the below command to configure postfix.

 krizna@mail:~$ sudo dpkg-reconfigure postfix

Now you will be prompted for set of details . choose the following values and replace krizna.com with your domain name.

1. Internet Site
2. krizna.com
3. krizna
4. krizna.com, localhost.localdomain, localhost
5. No
6. 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 192.168.0.0/24
7. 0
8. +
9. all

Step 5 » Now configure Postfix for SMTP-AUTH using Dovecot SASL by adding the below lines to postfix config file /etc/postfix/main.cf .

 home_mailbox = Maildir/
 smtpd_sasl_type = dovecot
 smtpd_sasl_path = private/auth
 smtpd_sasl_local_domain =
 smtpd_sasl_security_options = noanonymous
 broken_sasl_auth_clients = yes
 smtpd_sasl_auth_enable = yes

```
smtpd_recipient_restrictions = permit_sasl_authenticated,permit_mynetworks,reject_unauth_destination
smtp_tls_security_level = may
smtpd_tls_security_level = may
smtp_tls_note_starttls_offer = yes
smtpd_tls_loglevel = 1
smtpd_tls_received_header = yes
```

Step 6 » Now generate a digital certificate for tls. Issue the commands one by one and provide details as per your domain.

```
krizna@mail:~$ openssl genrsa -des3 -out server.key 2048
krizna@mail:~$ openssl rsa -in server.key -out server.key.insecure
krizna@mail:~$ mv server.key server.key.secure
krizna@mail:~$ mv server.key.insecure server.key
krizna@mail:~$ openssl req -new -key server.key -out server.csr
krizna@mail:~$ openssl x509 -req -days 365 -in server.csr -signkey server.key -out server.crt
krizna@mail:~$ sudo cp server.crt /etc/ssl/certs
krizna@mail:~$ sudo cp server.key /etc/ssl/private
```

Step 7 » Now configure certificate path

```
krizna@mail:~$ sudo postconf -e 'smtpd_tls_key_file = /etc/ssl/private/server.key'
krizna@mail:~$ sudo postconf -e 'smtpd_tls_cert_file = /etc/ssl/certs/server.crt'
```

Step 8 » Open /etc/postfix/master.cf file and uncomment below lines to enable smtps (465) and submission (587) .

```
submission inet n      -     -     -     -        smtpd
  -o syslog_name=postfix/submission
  -o smtpd_tls_security_level=encrypt
  -o smtpd_sasl_auth_enable=yes
  -o smtpd_relay_restrictions=permit_sasl_authenticated,reject
  -o milter_macro_daemon_name=ORIGINATING
smtps    inet n     -     n     -     -        smtpd
  -o syslog_name=postfix/smtps
  -o smtpd_tls_wrappermode=yes
  -o smtpd_sasl_auth_enable=yes
  -o smtpd_relay_restrictions=permit_sasl_authenticated,reject
  -o milter_macro_daemon_name=ORIGINATING
```

Step 9 » Now install Dovecot SASL by typing the below command.

```
krizna@mail:~$ sudo apt-get install dovecot-common
```

Issue the following values for the prompts during installation.

1. yes

2. mail.krizna.com

Step 10 » Make changes to the files as follows.

Open /etc/dovecot/conf.d/10-master.conf file and find *# Postfix smtp-auth* line (line no:95) and add the below lines .

```
# Postfix smtp-auth
unix_listener /var/spool/postfix/private/auth {
mode = 0660
user = postfix
group = postfix
}
```

Open /etc/dovecot/conf.d/10-auth.conf file and find (line no:100)

```
auth_mechanisms = plain
```

and replace

```
auth_mechanisms = plain login
```

Step 11 » Restart postfix and dovecot services

krizna@mail:~$ sudo service postfix restart

krizna@mail:~$ sudo service dovecot restart

Step 12 » Now test SMTP-AUTH and smtp/pop3 port access .

Type the below command and should get below response.

krizna@mail:~$ telnet mail.krizna.com smtp

Trying 127.0.0.1...

Connected to localhost.

Escape character is '^]'.

220 mail.kriznaa.com ESMTP Postfix (Ubuntu)

now type ehlo mail.krizna.com and should get below response , please make sure you get those bolded lines .

ehlo mail.krizna.com

250-mail.krizna.com

250-STARTTLS

250-AUTH PLAIN LOGIN

250-AUTH=PLAIN LOGIN

----

250 DSN

and try the same with port 587 (telnet mail.krizna.com 587).

Postfix configuration is over, continue for dovecot installation.

» Installing and configuring dovecot

Step 12 » Install dovecot using the below command

krizna@mail:~$ sudo apt-get install dovecot-imapd dovecot-pop3d

Step 13 » Now configure mailbox. Open /etc/dovecot/conf.d/10-mail.conf file and find (Line no:30)

mail_location = mbox:~/mail:INBOX=/var/mail/%u

Replace with

mail_location = maildir:~/Maildir

Step 14 » Now change pop3_uidl_format . Open /etc/dovecot/conf.d/20-pop3.conf file and find and uncomment the below line (Line no : 50)

pop3_uidl_format = %08Xu%08Xv

Step 15 » Now enable SSL . Open /etc/dovecot/conf.d/10-ssl.conf file and find and uncomment the below line (Line no : 6)

ssl = yes

Step 16 »Restart dovecot service.

krizna@mail:~$ sudo service dovecot restart

Step 17 » Now test pop3 and imap port access using the telnet command.

krizna@mail:~$ telnet mail.krizna.com 110

Trying 127.0.0.1...

Connected to localhost.

Escape character is '^]'.

+OK Dovecot (Ubuntu) ready.

Repeat the same for 995,993,143 ports.

OR check for listening ports using netstat command .

krizna@mail:~$ netstat -nl4

you should get the result like below.

```
krizna@mail:~$ netstat -nl4
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address        Foreign Address    State
tcp       0      0 0.0.0.0:22            0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:25            0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:993           0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:995           0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:587           0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:110           0.0.0.0:*          LISTEN
tcp       0      0 0.0.0.0:143           0.0.0.0:*          LISTEN
```

(http://cdn.krizna.com/wp-content/uploads/2014/05/setup-mail-server-ubuntu-14-04.png)

Step 18 » Create some users and check using mail clients like thunderbird or outlook

```
krizna@mail:~$ sudo useradd -m bobby -s /sbin/nologin
krizna@mail:~$ sudo passwd bobby
```

			Server hostname	Port	SSL	Authentication
Your name:	bobby		Your name, as shown to others			
Email address:	bobby@krizna.com					
Password:	Password					
	☑ Remember password					
Incoming:	POP3		mail.krizna.com	110	STARTTLS	Normal password
Outgoing:	SMTP		mail.krizna.com	587	STARTTLS	Normal password
Username:			bobby			

(http://cdn.krizna.com/wp-content/uploads/2014/05/setup-mail-server-ubuntu-14-04-1.png)

Now mail server is ready, you can send and receive mail using the server. Continue for squirrelmail ..

» Installing and configuring squirrelmail

Step 19 » Install squirrelmail using the below command. This will install apache and PHP packages.

```
krizna@mail:~$ sudo apt-get install squirrelmail
```

Step 20 » Configure squirrelmail

```
krizna@mail:~$ sudo squirrelmail-configure
```

Everything is pre-configured , we just need to change Organization name .

» Press 1 (Organization Preferences) » again press 1 (Organization Name) » Organization Name » Press S » Press Q to quit

Step 19 » Now configure apache to enable squirrelmail .

```
krizna@mail:~$ sudo cp /etc/squirrelmail/apache.conf /etc/apache2/sites-available/squirrelmail.conf
krizna@mail:~$ sudo a2ensite squirrelmail
```

Step 20 » Restart Apache service

```
krizna@mail:~$ sudo service apache2 restart
```

Step 21 » Now open http://serverIP/squirrelmail in your browser and login using username (bobby) . you can send and receive mail using squirrelmail.

Okay .. its over now ..

Please note when you decide to move server to the production, it is very important to implement Spam filter and antivirus . please check this post for more detail Postfix spamfilter and antivirus implementation (https://help.ubuntu.com/community/PostfixAmavisNew)
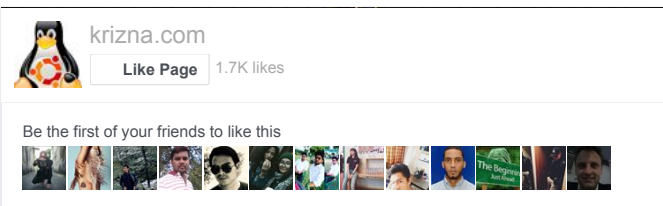
Also see :

» Setup mail server on centos 7 (http://www.krizna.com/centos/setup-mail-server-centos-7/)

» Setup mail server on centos 6 (http://www.krizna.com/centos/setup-mail-server-in-centos-6/)

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                    Name

laptrinhphp • 2 years ago
Hello, i have error.

/usr/sbin/postconf: warning: /etc/postfix/master.cf: undefined parameter: mua_helo_restrictions

/usr/sbin/postconf: warning: /etc/postfix/master.cf: undefined parameter: mua_sender_restrictions

/usr/sbin/postconf: warning: /etc/postfix/master.cf: undefined parameter: mua_client_restrictions

/usr/sbin/postconf: warning: /etc/postfix/master.cf: undefined parameter: mua_helo_restrictions

So how can i fix it? thanks.
2 ∧ | ∨ • Reply • Share ›

Carlos • 3 years ago
there two are missing:

250-AUTH PLAIN LOGIN
250-AUTH=PLAIN LOGIN
what should I do
2 ∧ | ∨ • Reply • Share ›

Matthew • a year ago
Hey Krizna, thanks for the tutorial! Easy to follow but I am having some issues. When I do the telnet mail.example.com 110 step, it connects to my static
ip that I setup in /etc/hosts and tells me that I am connected but then it is closed by foreign host. I did netsat and the ports are listening, but when I went
back into the dovecot config files and set "ssl = no" and commented the pop3_uidl_format back out. It works fine.   ∧
1 ∧ | ∨ • Reply • Share ›

MD.Rakib Hossen • 2 years ago

Please help anybody
I can't receive mail from Gmail , yahoo , But i send mail yahoo, Gmail . But is go to spam
1 ∧ | ∨ • Reply • Share ›

DubbaThony → MD.Rakib Hossen • 8 months ago
change your dns records, so it contains text that you can grab directly from google for example.
∧ | ∨ • Reply • Share ›

Aaron Brooks • 2 years ago
What should be the output for the telnet with port 587? I dont have those bolded lines for 587. Is this okay?
1 ∧ | ∨ • Reply • Share ›

Florian-Thomas Wickenburg • 2 years ago
I'm having a problem where my e-mails are not being received by dovecot.

Has anybody an idea for solve this problem?
1 ∧ | ∨ • Reply • Share ›

Italo Maia • 3 years ago
Lovely tutorial! Right now I'm having a problem where my e-mails are not being received by dovecot. They never make it to maildir. DNS seems fine. Is there a way to test if dovecot is really working?
1 ∧ | ∨ • Reply • Share ›

Adolfo Meneses → Italo Maia • 2 years ago
same here
1 ∧ | ∨ • Reply • Share ›

Hariharan Gopal → Italo Maia • 2 years ago
ya I am also facing the same problem
1 ∧ | ∨ • Reply • Share ›

Guest • 3 years ago
What is the expected output for ehlo in port 587? Which lines I'm looking for?
1 ∧ | ∨ • Reply • Share ›

MD.Rakib Hossen → Guest • 2 years ago
ehlo 587
250-RemittranceUk
250-PIPELINING
250-SIZE 10240000
250-VRFY
250-ETRN
250-STARTTLS
250-AUTH PLAIN LOGIN
250-AUTH=PLAIN LOGIN
250-ENHANCEDSTATUSCODES
250-8BITMIME
250 DSN
∧ | ∨ • Reply • Share ›

joe → MD.Rakib Hossen • 2 years ago
I'm not getting AUTH PLAIN LOGIN and AUTH=PLAIN LOGIN on port 587 but i am getting it on smtp
3 ∧ | ∨ • Reply • Share ›

mgr9500 → joe • 5 months ago
my recommendation to you is to remove the comment mark at the start of the line #submission
∧ | ∨ • Reply • Share ›

DubbaThony → joe • 8 months ago
same, figured it out?
∧ | ∨ • Reply • Share ›

A Shahin • 3 months ago
STARTTLS command required, how to solve this?
it is giving error like this, how to solve this?
∧ | ∨ • Reply • Share ›

mgr9500 • 5 months ago

if you have this problem: MTP server response: 530 5.7.0 Must issue a STARTTLS command first
then my recommendation to you is to remove the comment mark at the start of the line

#submission
good luck
@mgr9500

∧ | ∨ • Reply • Share ›

siantarcybercom • 8 months ago
on video ubuntu 16.10 with courier-pop courier-imap

∧ | ∨ • Reply • Share ›

geoB • 9 months ago
KUDOS! After trying postfix/dovecot documentation from Ubuntu & DigitalOcean over more days than I care to count, your tutorial is the one that worked. Great work.

∧ | ∨ • Reply • Share ›

19621205 • 10 months ago
I'm done but on the last part

krizna@mail:~$ sudo a2ensite squirrelmail

it says 'Site squirrelmail does not exist'

Need your help Krizna.

Thanks.

** issue already solved and I can be able to open the squirrelmail but I got
"Unknown user or password incorrect."

Is there any problem with the authentication? I simply followed the steps above. Please assist me. Thanks.

∧ | ∨ • Reply • Share ›

charles • a year ago
Best tutorial for setting up postfix and dovecot. I refer this page each and every time I setup a new server. Thanks a lot.

∧ | ∨ • Reply • Share ›

Marcelo Melo • a year ago
Obrigado, parabéns esse tutorial foi único que deu certo para configura Outlook recebe e enviar ...

∧ | ∨ • Reply • Share ›

bumeshrai • a year ago
Thank you! Superb article.

Everything went on as instructed. I have one query. After setting up the mail server, what values you enter in MX records of the domain hosting service.

∧ | ∨ • Reply • Share ›

sudarsun • a year ago
Amazing tutorial. Saved a lot of time for me. Thanks very much.

∧ | ∨ • Reply • Share ›

linuxlover • a year ago
Thanks a lot

∧ | ∨ • Reply • Share ›

Ted Collins • a year ago
AWESOME Post -- Thanks!!

∧ | ∨ • Reply • Share ›

Bala • a year ago
Hi Krizna, how to communicate with two different domains(Local) in postfix with dovecot like i want send and receive from xxx@tc.abc.in and yyy@local.xyz.in

∧ | ∨ • Reply • Share ›

    kathir vel.m ↱ Bala • a year ago
    same i have dout

    ∧ | ∨ • Reply • Share ›

bwhite • a year ago

Dwhite • a year ago

works fine. thanks a lot.

∧ | ∨ • Reply • Share ›

Viet Le • a year ago

Great tutorial

∧ | ∨ • Reply • Share ›

guebre • a year ago

i have the error : error connecting to imap server: localhost. 111: connection refused

∧ | ∨ • Reply • Share ›

Andrew Saxton • a year ago

ERROR: Could not complete request.

Query: SELECT "INBOX"

Reason Given: [SERVERBUG] Internal error occurred. Refer to server log for more information. [2016-01-28 18:58:56]

everything else works in squirrelmail just inbox not working checked everything wice

any ideas please

∧ | ∨ • Reply • Share ›

Asep Dadan • a year ago

why my problem?
telnet: Unable to connect to remote host: Connection refused

∧ | ∨ • Reply • Share ›

naqash sattar • 2 years ago

ERROR: Connection dropped by IMAP server.
http://52.5.117.240/squirrelmail/src/redirect.php
getting this error on squirrelmail .. please helppppp
i am using amazon aws ec2 instance with ubuntu 14.04

∧ | ∨ • Reply • Share ›

Maxmah Technology • 2 years ago

The best tutorial I ever had online. Absolutely genius work Krizn. Many Many Thanks

∧ | ∨ • Reply • Share ›

MD.Rakib Hossen • 2 years ago

root@mail:~# netstat -tap
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
tcp 0 0 *:ssh *:* LISTEN 880/sshd
tcp 0 0 *:smtp *:* LISTEN 27536/master
tcp 0 0 *:imaps *:* LISTEN 26864/dovecot
tcp 0 0 *:pop3s *:* LISTEN 26864/dovecot
tcp 0 0 *:mysql *:* LISTEN 977/mysqld
tcp 0 0 *:submission *:* LISTEN 27536/master
tcp 0 0 *:pop3 *:* LISTEN 26864/dovecot
tcp 0 0 *:imap2 *:* LISTEN 26864/dovecot
tcp 0 0 *:urd *:* LISTEN 27536/master
tcp 0 464 mail.remittanceuk.c:ssh 103.41.213.170:50156 ESTABLISHED 4997/0
tcp 0 1691 mail.remittanceuk.c:ssh 222.186.21.208:4956 ESTABLISHED 6745/sshd: [accepte
tcp6 0 0 [::]:ssh [::]:* LISTEN 880/sshd
tcp6 0 0 [::]:smtp [::]:* LISTEN 27536/master
tcp6 0 0 [::]:imaps [::]:* LISTEN 26864/dovecot
tcp6 0 0 [::]:pop3s [::]:* LISTEN 26864/dovecot
tcp6 0 0 [::]:submission [::]:* LISTEN 27536/master
tcp6 0 0 [::]:pop3 [::]:* LISTEN 26864/dovecot
tcp6 0 0 [::]:imap2 [::]:* LISTEN 26864/dovecot
tcp6 0 0 [::]:http [::]:* LISTEN 26842/apache2
tcp6 0 0 [::]:urd [::]:* LISTEN 27536/master

∧ | ∨ • Reply • Share ›

MD.Rakib Hossen • 2 years ago

I can't receive mail from Gmail , yahoo , But i send mail yahoo, Gmail . But is go to spam

∧ | ∨ • Reply • Share ›

XiaoGuang Wang ➜ MD.Rakib Hossen • 10 months ago

You probably also wrongly did step-13 where mail_location is set to mbox:~/Maildir instead of maildir:~/Maildir. As mentioned in Lion's post.

∧ | ∨ • Reply • Share ›

Lion • 2 years ago

Thanks for the tutorial.

Finally it works in Ubuntu 15 but it took me 2 days to figure out an issue where the incoming email is not available in POP nor IMAP although from the log seen that the SMTP nicely accept the email. I wrongly do step-13 where mail_location is set to mbox:~/Maildir instead of maildir:~/Maildir.

∧ | ∨ • Reply • Share ›

XiaoGuang Wang ➜ Lion • 10 months ago

That is exactly the problem what I had. Thank you for letting us know this tiny but important difference.

∧ | ∨ • Reply • Share ›

PD • 2 years ago

Oh crap! It seems most of all posted "Squirrel works" Uhmm, I have done everything no errors, but may I ask, how do I know what is my "URL" for squirrelmail?

"http://serverIP/squirrelmail" don't work for me :3 HELP PLS

∧ | ∨ • Reply • Share ›

Mayank Gupta • 2 years ago

Excellent tutorial ! I did everything. The squirrel mail is up. I can login but the messages I send are going nowhere. I created an email id as bobby@subdomain.com and I tried sending mail to itself, to gmail - nothing seems to be working. What did I miss ?

∧ | ∨ • Reply • Share ›

MN • 2 years ago

Really Great guidance........Thanks for it........Can i send mail from gmail to the server i made and vice versa............If yes......please tell how?

∧ | ∨ • Reply • Share ›

MN • 2 years ago

My server is configured and i am able to send and receive mail using squirrelmail but when i try to send and receive mails through thunderbird from other PC in network it doesn't find the server although it is in the same network and i am able to ping the server ip also........pls guide

∧ | ∨ • Reply • Share ›

omsi ➜ MN • a year ago

Check if both computers are in the same domain or workgroup

∧ | ∨ • Reply • Share ›

Yutthaphum Sriwino • 2 years ago

Thank. It's work. Very good.

∧ | ∨ • Reply • Share ›

Captain • 2 years ago

Great post, everything worked perfectly for me... Thank you very much and i will keep visiting your site for different installs

∧ | ∨ • Reply • Share ›

webs • 2 years ago

help i can't login,what i get is ERROR:
ERROR: Connection dropped by IMAP server.

∧ | ∨ • Reply • Share ›

Nian Ying Toh • 2 years ago

unable to telnet to mail server at step17 above need help

∧ | ∨ • Reply • Share ›

Anthony Brown • 2 years ago

I had a problem receving email with squirrelmail. I resolved this by running the /etc/squirrelmail/conf.pl script. Select 2.Server Settings, then A. Update IMAP Settings 8. Server Software = dovecot. When I installed it was set to other instead of dovecot.

∧ | ∨ • Reply • Share ›

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6 comments • 3 years ago•

Avat jatin — thanks for this tutorial ....:-)

3 comments • 3 years ago•

Avat fhffh — rtyrtyrrt

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2 comments • 4 months ago•

Avat **Сергей Михальцов** — Все работает, спасибо, я правда обычный авторизованный доступ настроил!All work, thanks!!!

Setup DHCP server on ubuntu 14.04

4 comments • 3 years ago•

Avat adnna — ok

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