

FreeBSD Administration - Support #537

Install a Mail Server With iRedMail 0.9.0 on FreeBSD

01/20/2015 04:10 PM - Daniel Curtis

Status:	Closed	Start date:	11/12/2014
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Mail Server	Estimated time:	3.00 hours
Target version:	FreeBSD 9	Spent time:	7.00 hours

Description

One of the core services of the Internet is email, and as such I needed to setup a mail server for one of my projects. Rather than setting up postfix, dovecot, spamassassin, etc. by hand, I found the useful open source project iRedMail. Unfortunately, this project currently is not in the port tree, however the install script uses the ports tree to install each of the necessary packages. This guide uses a FreeBSD 9.2 jail created using FreeNAS, so it should work on a bare metal setup as well; also this guide assumes that SSH has been enabled and a separate user used to run administrative commands has been created.

Update the system

- Login as root:

```
su -
```

- Update the ports tree

```
portsnap fetch extract
```

- Install portmaster

```
pkg install portmaster
```

- Upgrade the base system

```
pkg update && pkg upgrade
```

- Check the current hostname:

```
hostname -f
```

- The output should look similar to the following:

```
mx.example.com
```

On FreeBSD, hostname is set in two files: **/etc/rc.conf**, **/etc/hosts**.

- Add or modify the **/etc/rc.conf** file:

```
hostname="mx.example.com"
```

- Add or modify the **/etc/hosts** file:

```
127.0.0.1 mx.example.com mx localhost localhost.localdomain
```

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## Install iRedMail

- Install bash

```
pkg install shells/bash
```

- Fetch and extract the iRedMail stable installer:

```
cd
fetch https://bitbucket.org/zhb/iredmail/downloads/iRedMail-0.9.0.tar.bz2
tar xjf iRedMail-0.9.0.tar.bz2
cd iRedMail-0.9.0
```

- Run the iRedMail Installer:

```
bash iRedMail.sh
```

## Configure iRedMail

The install process will pull in all the required packages during installation. Since each mail server is a little different, my setup uses the following parameters:

- Default mail storage path: **/var/vmail**
- Default web server: **nginx**
- Preferred backend used to store mail accounts: **MariaDB**
- First virtual domain name: **example.com**
- Optional components:
  - DKIM signing/verification
  - iRedAdmin
  - Roundcubemail
  - phpMyAdmin
  - Awstats

When the installation finishes, all the login information and URLs will be placed in the **iRedMail.tips** file.

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## Securing iRedMail with SSL/TLS

The default location for the self-signed certificate is in `/etc/ssl/certs/iRedMail.crt` and the key is in `/etc/ssl/private/iRedMail.key`; I am going to change these to `/usr/local/etc/ssl/mx.example.com.crt` and `/usr/local/etc/ssl/mx.example.com.key`, respectively.

- Start by create a dhparam file:

```
cd /usr/local/etc/ssl
openssl openssl dhparam -out dhparams.pem 2048
```

- Next, generate a nice strong SSL key and CSR:

```
openssl req -sha512 -out mx.example.com.csr -new -newkey rsa:4096 -nodes -keyout mx.example.com.key
```

- When the SSL certificate is signed, copy it securely to **/usr/local/etc/ssl/mx.example.com.crt**
- Edit the default nginx server block config:

```
vi /usr/local/etc/nginx/conf.d/default.conf
```

- And change the **ssl\_certificate\_key**, **ssl\_certificate**, and **ssl\_dhparam** paths:

```
ssl_certificate_key /usr/local/etc/ssl/mx.example.com.key
ssl_certificate /usr/local/etc/ssl/mx.example.com.crt
ssl_dhparam /usr/local/etc/ssl/dhparams.pem;
```

- Edit the main postfix config:

```
vi /usr/local/etc/postfix/main.cf
```

- And change the **smtpd\_tls\_key\_file**, **smtpd\_tls\_cert\_file**, **smtpd\_tls\_CAfile**, and **smtpd\_tls\_dh1024\_param\_file** paths:

```
smtpd_tls_key_file = /usr/local/etc/ssl/mx.example.com.key
smtpd_tls_cert_file = /usr/local/etc/ssl/mx.example.com.crt
smtpd_tls_CAfile = /usr/local/etc/ssl/mx.example.com.crt
smtpd_tls_dh1024_param_file = /usr/local/etc/ssl/dhparams.pem
```

- Edit the dovecot config:

```
vi /usr/local/etc/dovecot/dovecot.conf
```

- And change the paths:

```
ssl_cert = </usr/local/etc/ssl/mx.example.com.crt
ssl_key = </usr/local/etc/ssl/mx.example.com.key
```

**NOTE:** To use an intermediate CA certificate nginx requires all SSL certificate be attached all in a single file. This can be done by running:

```
cat mx.example.com.crt ca.cert.bundle.pem > mx.example.com.bundle.crt
```

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## Install Getmail

- Install getmail

```
pkg install mail/getmail
```

## Configuring Getmail

- Unlock the vmail user

```
chsh -s /bin/sh vmail
```

- Switch to the vmail user

```
su - vmail
```

- Set up the getmail configuration

```
cd
mkdir .getmail
cp /usr/local/share/examples/getmail/getmailrc-examples .getmail/getmailrc
```

- Edit the getmailrc file:

```
vi .getmail/getmailrc
```

- For user john, with an email address of [john@example.com](mailto:john@example.com), email user name john, a password of 1234, and an ISP whose pop server name is pop.example.com, we would like our getmailrc to look like this.

```
[options]
verbose = 0
read_all = false
delete = false

[retriever]
type = SimplePOP3Retriever
server = pop.example.com
username = john
password = 1234

[destination]
type = MDA_external
path = /usr/local/libexec/dovecot/deliver
arguments = ("-e", "-f", "%(sender)", "-d", "john@example.com")
```

## Testing Getmail

- To test getmail simply type at a command prompt

```
getmail -v
```

If all is set up successfully, you should see it polling your pop server and retrieving your mail.

## Automate Getmail

- Of course, it's really easy to script this for a large number of rc-\* files. Create a script:

```
vi /usr/local/bin/run-getmail.sh
```

- And add the following containing:

```
#!/bin/sh
set -e
cd /var/vmail
rcfiles=""
for file in `ls /var/vmail/.getmail/*.getmailrc` ; do
    rcfiles="$rcfiles --rcfile $file"
done
```

```
exec /usr/local/bin/getmail $srcfiles $@
```

- Make the script executable:

```
chmod +x /usr/local/bin/run-getmail.sh
```

- Edit the vmail crontab:

```
su - vmail  
crontab -e
```

- And add the following to run the run-getmail.sh script every 2 minutes.

```
* /2 * * * * /usr/local/bin/run-getmail.sh
```

## Resources

- <http://www.iredmail.org/docs/install.iredmail.on.freebsd.html>
- <http://www.iredmail.org/download.html>
- <https://bitbucket.org/zhb/iredmail>

### Related issues:

Copied from FreeBSD Administration - Support #474: Installing iRedMail 0.8.7 ...	Closed	11/12/2014
Copied to FreeBSD Administration - Support #776: Install a Mail Server With i...	Closed	11/12/2014

## History

### #1 - 01/20/2015 04:10 PM - Daniel Curtis

- Copied from Support #474: Installing iRedMail 0.8.7 Mail Server on FreeBSD added

### #2 - 01/21/2015 01:35 PM - Daniel Curtis

- Description updated

### #3 - 01/21/2015 03:57 PM - Daniel Curtis

- % Done changed from 10 to 80

### #4 - 01/21/2015 03:58 PM - Daniel Curtis

- Status changed from New to Resolved

### #5 - 01/23/2015 12:50 PM - Daniel Curtis

- Description updated

- % Done changed from 80 to 100

### #6 - 01/27/2015 11:18 AM - Daniel Curtis

- Status changed from Resolved to Closed

### #7 - 02/14/2015 10:47 AM - Daniel Curtis

- Subject changed from Installing iRedMail 0.9.0 Mail Server on FreeBSD 9.2 to Installing iRedMail 0.9.0 Mail Server on FreeBSD

- Target version set to FreeBSD 9

### #8 - 02/14/2015 12:03 PM - Daniel Curtis

- Category set to Mail Server

### #9 - 03/22/2015 11:39 AM - Daniel Curtis

- Description updated

#10 - 03/29/2015 04:56 PM - Daniel Curtis

- Description updated

#11 - 04/20/2015 03:51 PM - Daniel Curtis

- Subject changed from Installing iRedMail 0.9.0 Mail Server on FreeBSD to Install a Mail Server With iRedMail 0.9.0 on FreeBSD

- Description updated

#12 - 04/20/2015 03:53 PM - Daniel Curtis

- Description updated

#13 - 10/24/2015 04:27 PM - Daniel Curtis

- Description updated

#14 - 10/24/2015 05:02 PM - Daniel Curtis

- Description updated

#15 - 03/15/2016 08:40 PM - Daniel Curtis

- Copied to Support #776: Install a Mail Server With iRedMail 0.9.5 on FreeBSD added

Files

iRedMail-0.8.7.tar.bz2	110 KB	11/12/2014	Daniel Curtis
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