

Virtual Domains, Postfix, Dovecot LDA, and LDAP

Introduction

Inspired by:

- <http://wanderingbarque.com/howtos/mailserver/mailserver.html>
- <http://wiki.dovecot.org/LDA>

So far, this documentation was tested on SUSE 10.1, but will probably work for other systems running a version of dovecot with LDA support. I have a pre-existing LDAP server set up for Open-XChange accounts. See [Open-XChange Server](#) for details.

Not covered here

- I do not explain how to create your SSL certificates. You will find several options and howtos on this subject in [Apache SSL Notes](#)
- I do not explain how to set up your LDAP server, my examples expect pretty standard stuff for LDAP, but some of the configs are tailored to an Open-XChange LDAP user setup, which is described in [Open-XChange Server](#) and also in [OpenLDAP Notes](#). Just check that the filters and so on will work for you.

Configuration

System

Create a system user via your preferred method. I create one in LDAP called *vmail*, and give it the home directory that is the directory where you want the message store to be under. I've been using **/var/vmail** mainly because I have my **/var** filesystem optimized for this. For the purposes of this document, I assume you used **/var/vmail**. I'd recommend you make sure that your disk storage is suitably speedy, and the Reiser filesystem seems to do well for Maildir type message stores.

NOTE

For the purpose of this document, we assume the uid number of vmail is 9015 and that the gid number for mail is 12

```
mkdir -p /var/vmail/domains
chown -R vmail:mail /var/vmail/domains
```

Dovecot

/etc/dovecot/dovecot.conf

```
protocols = imap imaps pop3 pop3s
ssl_disable = no
ssl_cert_file = /etc/ssl/certs/example.org.crt
ssl_key_file = /etc/ssl/private/example.org.key
mail_extra_groups = mail
valid_chroot_dirs = /var/vmail/domains
default_mail_env = maildir:/var/vmail/domains/%d/%n/mail
disable_plaintext_auth = no
protocol lda {
    postmaster_address = postmaster@frauerpower.com
}
protocol pop3 {
    pop3_uidl_format = %08Xu%08Xv
}
auth default_with_listener {
    mechanisms = plain
    userdb ldap {
        args = /etc/dovecot/dovecot-ldap.conf
    }
    passdb ldap {
        args = /etc/dovecot/dovecot-ldap.conf
    }
    socket listen {
        master {
            path = /var/run/dovecot-auth-master
            mode = 0600
            user = vmail
            group = mail
        }
    }
}
plugin {
    quota = dirsize:/var/vmail/%d/%u/mail
    convert_mail = maildir:/var/vmail/%d/%u/mail
}
```

/etc/dovecot/dovecot-ldap.conf

```
hosts = 192.139.81.209
uris = ldap://192.168.1.209
dn = cn=manager,dc=example,dc=org
dnpass = secret
ldap_version = 3
base = uid=%u, ou=Users, ou=OxObjects, dc=example, dc=org
user_attrs = mail,postOfficeBox=home,,,,
user_filter = (&(objectClass=posixAccount)(uid=%u)(mailEnabled=OK))
user_global_uid = 9015
user_global_gid = 12
```

Postfix

/etc/postfix/main.cf

```
#####  
### Dovecot Delivery ###  
#####  
dovecot_destination_recipient_limit = 1  
mailbox_transport = dovecot
```

NOTE

For a full working example, check out [Leah's Postfix Configuration](#)

/etc/postfix/master.cf

```
# Dovecot LDA  
dovecot unix - n n - - pipe  
 flags=DRhu user=vmail:mail argv=/usr/lib/dovecot/deliver -d ${recipient}
```

Note

don't forget to uncomment the *tlsmgr* line as well:

```
tlsmgr unix - - n 1000? 1 tlsmgr
```