Object Storage and Enterprise Repository Installation manual

Version 1.6

The repository access is available only by using a customer-specific username and password. We preserve the right to suspend a user account if the maximum number of servers (50) is exceeded. A warning email is sent to the account owner before this happens. If you need more than the allowed number of connections, don't hesitate to contact our sales (sales@dovecot.fi).

If you have any problems with the object storage plugins, send your report to <qa(at)dovecot.fi>. You can report other Dovecot related bugs to our public community mailing list <dovecot(at)dovecot.org>.

Repository configuration for RedHat and CentOS

/etc/yum.repos.d/dovecot.repo:

```
[dovecot]
name=RHEL $releasever - $basearch - Dovecot Solutions
baseurl=https://USERNAME:PASSWORD@yum.dovecot.fi/default/stable-2.2/el$releasever-$basearch
gpgkey=https://yum.dovecot.fi/RPM-GPG-KEY.dovecot
gpgcheck=1
```

You can also get Dovecot v2.1 by changing the “stable-2.2” in the baseurl to “stable-2.1”.

You can see all the available Dovecot enterprise packages with:

```
yum search dovecot-ee
```

Commonly you want to install at least:

```
yum install dovecot-ee dovecot-ee-pigeonhole dovecot-ee-managesieve
```

See also /etc/sysconfig/dovecot for some startup settings.

Repository configuration to Debian and Ubuntu

Install the apt repository gpg key:

```
wget -O - http://apt.dovecot.fi/dovecot-gpg.key | sudo apt-key add -
```

/etc/apt/sources.list for Debian Squeeze:

```
deb https://USERNAME:PASSWORD@apt.dovecot.fi/debian/squeeze/2.2 squeeze main
```

/etc/apt/sources.list for Ubuntu 12.04 LTS:

```
deb https://USERNAME:PASSWORD@apt.dovecot.fi/ubuntu/precise/2.2 precise main
```

NOTE: The sources.list URLs are currently a bit different looking than what are commonly used by Debian/Ubuntu, so make sure you type them EXACTLY as above.

You can see all the available Dovecot enterprise packages with:

```
apt-cache search dovecot-ee
```

Commonly you want to install at least:

```
apt-get install dovecot-ee-core dovecot-ee-imapd dovecot-ee-pop3d dovecot-ee-lmtpd dovecot-ee-sieve
dovecot-ee-managesieved
```

You need to enable Dovecot startup by setting ENABLED=y in /etc/default/dovecot. It has also some other startup settings.

Object Storage configuration

You'll need to install dovecot-ee-obox2 package (not dovecot-ee-obox) to get the obox plugin and place the dovecot-license.txt to /var/lib/dovecot/dovecot-license.txt.

/etc/dovecot/conf.d/11-object-storage.conf:

```
# Number of mails to download in parallel when possible.
mail_prefetch_count = 10
# Mailbox list index is required by obox.
mailbox_list_index = yes
# Mails must be owned by the same UID. Easiest to use default_internal_user.
mail_uid = $default_internal_user

# The ~/ is for local index files. It's safe to delete the entire directory
# while Dovecot isn't running or use doveadm metacache clean command to delete
# them while Dovecot is running. The index files are downloaded back from
# object storage on demand. The %Mu hashing is used to optimize performance
# for some of the object storages by adding two hash directory prefixes -
# it's not necessary and could be replaced with simply %u.
mail_location = obox:%2Mu/%2.2Mu/%u:INDEX=~/:CONTROL=~/
mail_plugins = $mail_plugins obox

# Directory or file for trusted SSL CA certificates.
#ssl_client_ca_dir = /etc/ssl/certs # Debian/Ubuntu
#ssl_client_ca_file = /etc/pki/tls/cert.pem # RedHat

plugin {
  # How often to upload locally changed index files back to object storage.
  # When user logs out this is done immediately.
  #metacache_upload_interval = 5 mins

  # After user logs out, how long to keep assuming that the user can still
  # safely (and quickly) be accessed via this server. Non-zero values are
  # typically safe enough.
  #metacache_close_delay = 0 min

  # Max amount of disk space to use for index file cache.
  #metacache_max_space = 100 G
}

# If attributes are used, the filename must be "dovecot-attributes":
#mail_attribute_dict = file:%h/dovecot-attributes

# If dict-file quota is used, the filename must be "dovecot-quota":
#mail_plugins = $mail_plugins quota
#plugin {
#  quota = dict:User quota::file:%h/dovecot-quota
```

```
#}

# If Sieve is used with filesystem-backed files, these paths must be used:
#plugin {
#  sieve = ~/.dovecot.sieve
#  sieve_dir = ~/sieve
#}

###
### Object Storage configuration to Scality CDMI
###

plugin {
  # Use 1 GB cache for mails in /var/lib/dovecot/cache. The cache directory is the same for all users.
  obox_fs = fscache 1G:/var/lib/dovecot/cache:scality:http://scality.example.com/
}

###
### Object Storage configuration to Amazon S3
###

# Get ACCESSKEY and SECRET from http://aws.amazon.com/ -> My account ->
# Security credentials -> Access credentials.
# Create the BUCKETNAME from AWS Management Console -> S3 -> Create Bucket.
plugin {
  # Use 1 GB cache for mails in /var/lib/dovecot/cache. The cache directory is the same for all users.
  obox_fs = fscache
1G:/var/lib/dovecot/cache:s3:https://ACCESSKEY:SECRET@BUCKETNAME.s3.amazonaws.com/
}

###
### Object Storage configuration to Microsoft Azure
###

# Get ACCESSKEY and STORAGENAME from www.windowsazure.com -> Storage
# (-> Create STORAGENAME) -> STORAGENAME -> Manage Keys.
plugin {
  # Use 1 GB cache for mails in /var/lib/dovecot/cache. The cache directory is the same for all users.
  obox_fs = fscache 1G:/var/lib/dovecot/cache:azure:ACCESSKEY
https://STORAGENAME.blob.core.windows.net/
}

###
### Object Storage configuration to Dropbox
###

# You need to register for ACCESSKEY and SECRET by visiting
# https://dropbox.dovecot.fi/
plugin {
 # Use 100 GB cache for mails in /var/lib/dovecot/cache. The cache directory is the same for all users.
```

```
  obox_fs = fscache 100G:/var/lib/dovecot/cache:dropbox:https://ACCESSKEY:SECRET@dropbox/
}

# You can also have per-user obox_fs by returning it from userdb.
```

Mail UNIX user

The above configuration assumes that you're going to use $default_internal_user (usually "dovecot") for storing the mails. If you want to change it to e.g. "vmail" user, you'll need to do several changes:

```
mkdir /var/lib/dovecot/cache
chown vmail.vmail /var/lib/dovecot/cache
```

dovecot.conf:

```
service metacache {
  unix_listener metacache {
    user = vmail
  }
}

service metacache-worker {
  user = vmail
}

mail_uid = vmail
```

Note that all of the object storage users must use the same UNIX UID due to the way metacache and cachefs have been implemented currently.