Release Notes for Release Dovecot Pro 2.2.16

1. Shipped Products and Versions

Dovecot Pro 2.2.16

Dovecot Pro Patch Release 2.2.16.1

Dovecot Pro Patch Release 2.2.16.2

Dovecot Pro Patch Release 2.2.16.3

Dovecot Pro Patch Release 2.2.16.4

2. Important Changes and Bugs fixed since previous Public Release

2.1.   Dovecot Pro 2.2.16.4

- Dovecot v2.2.16.3 and earlier versions had a DoS bug where an unauthenticated IMAP/POP3 client could crash Dovecot auth process by sending an empty login username for a master user login. This is possible only if auth_master_user_separator setting has been set (non-default). For example if auth_master_user_separator=*, the crash can be done by sending "LOGIN *master password" IMAP command. The auth process restarts automatically, but an active attacker can still cause problems for other users logging in at the same time.
- Fixed dsync migration problems with Zimbra by adding imapc_features=zimbra-workarounds setting

2.2.   Dovecot Pro 2.2.16.3

- auth: If passdb/userdb changes the username, add the changed username also to the cache.
- auth: Setting userdb fields from cache didn't set handle any special fields.
- replication: Don't crash for users who don't have replication enabled.
- rawlog: Flush output to disk every second instead of only when buffer is full.

2.3.   Dovecot Pro 2.2.16.2

- Gmail migration: Fixed \Muted GMail label handling
- doveadm: Added -h parameter to hide header line from tab and table formatter output.
- Dovecot no longer checks or warns if a mountpoint is removed. This was causing more trouble than it was worth.

2.4.   Dovecot Pro 2.2.16.1

- imapc: If doveadm command fails because imapc authentication fails, exit with EX_NOPERM (77) instead of EX_TEMPFAIL (75)
- imapc: If server disconnected during mailbox syncing and reconnect also failed, the mailbox was shown empty.

2.5.   Dovecot Pro 2.2.16

Changes in functionality:
- dbox: Resyncing (e.g. doveadm force-resync) no longer deletes dovecot.index.cache file. The cache file was rarely the problem so this just caused unnecessary slowness.
- Mailbox name limits changed during mailbox creation: Each part of a hierarchical name (e.g. "x" or "y" in "x/y") can now be up to 255 chars long (instead of 200). This also reduces the max number of hierarchical levels to 16 (instead of 20) to keep the maximum name length 4096 (a common PATH_MAX limit). The 255 char limit is hopefully large enough for migrations from all existing systems. It's also the limit on many filesystems.

New features:
- director: Added director_consistent_hashing setting to enable consistent hashing (instead of the mostly-random MD5 hashing). This causes fewer user moves between backends when backend counts are changed, which may improve performance (mainly due to caching).
- director: Added support for "tags", which allows one director ring to serve multiple backend clusters with different sets of users.
- LMTP server: Added lmtp_user_concurrency_limit setting to limit how many LMTP deliveries can be done concurrently for a single user.
- LMTP server: Added support for STARTTLS command.

- If logging data is generated faster than it can be written, log a warning about it and show information about it in log process's process title in ps output. Also don't allow a single service to flood too long at the cost of delaying other services' logging.
- stats: Added support for getting global statistics.
- stats: Use the same session IDs as the rest of Dovecot.
- stats: Plugins can now create their own statistics fields
- doveadm server: Non-mail related commands can now also be used via doveadm server (TCP socket).
- doveadm proxying: passdb lookup can now override doveadm_port and change the username.
- doveadm: Search query supports now "oldestonly" parameter to stop immediately on the first non-match. This can be used to optimize: doveadm expunge mailbox Trash savedbefore 30d oldestonly
- doveadm: Added "save" command to directly save mails to specified mailbox (bypassing Sieve).
- doveadm fetch: Added body.snippet field, which returns the first 100 chars of a message without whitespace or HTML tags. The result is stored into dovecot.index.cache, so it can be fetched efficiently.
- dsync: Added -t <timestamp> parameter to sync only mails newer than the given received-timestamp.
- dsync: Added -F [-]<flag> parameter to sync only mails with[out] the given flag/keyword.
- dsync: Added -a <mailbox> parameter to specify the virtual mailbox containing user's all mails. If this mailbox is already found to contain the wanted mail (by its GUID), the message is copied from there instead of being re-saved. (This isn't efficient enough yet for incremental replication.)
- dsync: -m parameter can now specify \Special-use names for mailboxes.
- imapc: Added imapc_features=gmail-migration to help migrations from GMail. See http://wiki2.dovecot.org/Migration/Gmail
- imapc: Added imapc_features=search to support IMAP SEARCH command. (Currently requires ESEARCH support from remote server.)
- expire plugin: Added expire_cache=yes setting to cache most of the database lookups in dovecot index files.
- quota: If overquota-flag in userdb doesn't match the current quota usage, execute a configured script.
- redis dict: Added support for expiring keys (:expire_secs=n) and specifying the database number (:db=n)

Bugfixes:
- auth: Don't crash if master user login is attempted without any configured master=yes passdbs
- Parsing UTF-8 text for mails could have caused broken results sometimes if buffering was split in the middle of a UTF-8 character. This affected at least searching messages.

- String sanitization for some logged output wasn't done properly: UTF-8 text could have been truncated wrongly or the truncation may not have happened at all.
- fts-lucene: Lookups from virtual mailbox consisting of over 32 physical mailboxes could have caused crashes.

3. Tests

The Dovecot QA team has successfully verified all bug fixes that could be reproduced within a lab environment.

To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server setup for system and integration testing.

All changes have been checked for potential side-effects and effect on behavior. Unless explicitly stated within this document, we do not expect any side-effects.