



Release Notes for Dovecot Pro Minor release 2.2.30.1

1. Shipped Products and Versions

Dovecot Pro 2.2.30.1

Including Object Storage Plug-In, Full Text Search Plug-in and Unified Quota Plug-in.

Important Changes and Bugs fixed since previous Public Release

1.1. Dovecot Pro Core

- **IMPROVEMENT DOV-862:** auth: Use timing safe comparisons for everything related to passwords. It's unlikely that these could have been used for practical attacks, especially because Dovecot delays and flushes all failed authentications in 2 second intervals. Also it could have worked only when passwords were stored in plaintext in the passdb.
- **IMPROVEMENT DOV-411:** core dumps should contain exactly which Dovecot package produced it
 - lib: Add dovecot_build_info variable containing Dovecot build information.
- **IMPROVEMENT DOV-460:** dovecot.index.cache corruption should remove single records, not everything
 - mail-cache: Drop only single record on corruption
- **IMPROVEMENT DOV-764:** auth: Add passdb { username_filter } to use passdb only if user matches the filter.
 - See <https://wiki2.dovecot.org/PasswordDatabase>
- **IMPROVEMENT DOV-772:** dsync: Add dsync_commit_msgs_interval setting.
 - It attempts to commit the transaction after saving this many new messages. Because of the way dsync works, it may not always be possible if mails are copied or UIDs need to change.
- **IMPROVEMENT DOV-793:** doveadm mailbox status: Add "firstsaved" field
- **IMPROVEMENT DOV-782:** imapc: Try to avoid sending multiple STOREs when syncing
- **IMPROVEMENT DOV-863:** imapc: Add quota=imapc backend to use GETQUOTA/GETQUOTAROOT on the remote server.

- **IMPROVEMENT DOV-864:** imapc: Support `imapc_features=search` without ESEARCH extension.
- **IMPROVEMENT DOV-865:** imapc: Add `imapc_features=fetch-bodystructure` to pass through remote server's FETCH BODY and BODYSTRUCTURE.
- **IMPROVEMENT DOV-866:** auth: Add `passdb { mechanisms=none }` to match separate `passdb` lookups
- **BUG 50917:** Restart fails because listeners aren't closed fast enough
 - **FIX:** lib-master: When running under master, close listeners immediately on SIGQUIT
 - **FIX:** master: Send SIGQUIT to processes running at `deinit` to close socket listeners.
 - This allows Dovecot to be restarted even when some `lmp/doveadm` process is running for a long time. Otherwise it would keep the `inet_listener` socket open and prevent the new Dovecot from binding to the port.
- **BUG 53332:** Panic: file `mail-index-transaction-update.c`: line 1023 (`mail_index_update_ext`): assertion failed: `(seq > 0 && (seq <= mail_index_view_get_messages_count(t->view) || seq <= t->last_new_seq))`
 - **FIX:** lib-storage: When save is aborted, close `dest_mail` without crashing
 - Because cache was still attempted to be updated, but the mail was already expunged from index.
- **BUG 52153:** LOGIN reply should be sent earlier
 - **FIX:** imap: login reply should be sent sooner
 - This way Dovecot proxies don't log LOGIN timeout errors when user initialization takes a long time (with `obox`)
- **BUG 53365:** lmp: Segfault when proxying
 - **FIX:** lib: Fix crash when seeking `istream-concat` to EOF and trying to read it
- **BUG 51916:** `director_flush_socket` handling is slow during backend failures
 - **FIX:** director: Add old host's `up/down` and `vhost` count parameters to `director_flush_socket` script
 - The "down" status allows the script to determine whether it should try to perform any work on the old host. The `vhost` count may be unnecessary, but might be useful for some purpose.
- **BUG 52733:** Panic: file `http-client-queue.c`: line 202 (`http_client_queue_is_last_connect_ip`): assertion failed: `(queue->ips_connect_idx < host->ips_count)`
 - **FIX:** lib-http: client: Fixed race condition between DNS refresh lookup and a soft connection timeout.
- **BUG 52866:** `passdb` imap doesn't require valid ssl cert
 - **FIX:** `passdb-imap`: Add `allow_invalid_cert` option to control certificate verification
 - Valid SSL certificate is now required by default
 - **FIX:** `passdb-imap`: Add `ssl_ca_file` setting
 - Allow setting SSL trust roots from a file
- **BUG 53780:** auth master process shouldn't connect to ldap when `blocking=yes`
 - **FIX:** auth: If `passdb/userdb` ldap has `blocking=yes`, auth master shouldn't connect to ldap
- **BUG 53738:** IMAP NOTIFY is broken for non-INBOX
 - **FIX:** lib-storage: Fix mailbox list index notifications when `modseqs` aren't enabled.

- No notifications were sent if `highest_modseqs` weren't updated in mailbox list index.
 - **FIX:** `lib-storage`: Always update `highestmodseq` in mailbox list index
 - This is required for mailbox-list-notify API to work correctly. For example IMAP NOTIFY session with CONDSTORE enabled could be listening for FlagChanges, but another session without CONDSTORE enabled could be updating flags in a mailbox that has never been opened with CONDSTORE enabled. NOTIFY wouldn't see this change, unless it was always written to `dovecot.list.index`.
- **BUG 53794:** `imapc`: infinite loop with duplicate UIDs
 - **FIX:** `lib-imap-client`: Avoid infinite reconnection loops when retrying command fails
 - **FIX:** `imapc`: Fix infinite reconnection when server keeps sending corrupted state
- **BUG 53448:** Corrupted mailbox list index isn't fixed automatically
 - **FIX:** `lib-storage`: Fix mailbox list index records without `guid` having invalid flags
 - **FIX:** `lib-storage`: Fix mailbox list index records with `name_id=0`
- **BUG 53943:** Internal error logging is broken in some situations, causing garbage to be logged
 - **FIX:** `lib-storage`: Fix `mail_storage_set_critical()` when input parameter is an old internal error
 - **FIX:** `lib-storage`: Fix `mail_storage_last_error_push/pop()` to work with internal errors
- **BUG 52881:** Broken physical size for mail UID ... in mailbox `VirtualAttachments/...`:
Cached message size larger than expected
 - **FIX:** `attachments-mail`: When mail itself is a non-MIME attachment, do not hide message body
- **BUG DOV-574:** `mail-crypt` plugin fails to decrypt moved emails when per-folder keys are used.
 - **FIX:** `mail-crypt`: Re-encrypt mails when copying/moving
 - Otherwise the mail cannot be opened after moving
- **BUG DOV-765:** `SEARCH/STORE`: Invalid keyword handling is broken
 - **FIX:** `lib-index`: `mail_index_update_keywords()` - don't assert if adding/removing 0 keywords
 - Although it would be nice for the caller to check it, it's easier to do here. It's mainly a problem with `mailbox_keywords_create_valid()` that may unexpectedly create empty keywords.
 - **FIX:** `lib-storage`: Fix searching when search query has invalid keywords.
 - For example "SEARCH KEYWORD]" was returning all mails instead of nothing.
- **BUG DOV-777:** Fix memory leak when some search queries are simplified
 - **FIX:** `lib-storage`: Fix memory leak in `mail_search_args_simplify()`
 - The leaks happened when search args were already initialized (which they usually were at this point) and some of the args were dropped entirely.
 - Improved the unit test to initialize search args before calling the `simplify`, so `valgrind` would notice if there are any leaks.
- **BUG DOV-781:** `imapc` does `STATUS (UIDNEXT)` after `APPEND` if the folder is selected
 - **FIX:** Avoid unnecessary `UIDNEXT` lookups after saving a mail
 - The `vsize` checking code was expecting that this would always be a cheap operation, but with `imapc` code it could trigger a remote `STATUS`

(UIDNEXT) call. Do this only when we've checked that this mailbox is updating vsize header at all.

- **BUG DOV-867:** dsync-server: Fix support for dsync_features=empty-header-workaround

1.2. Object Storage Plug-in

- **IMPROVEMENT DOV-796:** doveadm metacache remove: If user is in use, show a service name accessing it
- **IMPROVEMENT DOV-814:** fs-plugins: Increase the default write/delete timeout to 62 secs
- **BUG 53330:** Uncommitted saved mails aren't deleted after a crash
 - **FIX:** lib-metacache: Fix rolling back aborted transactions.
 - **FIX:** lib-metacache: Rescan mails if transaction rollback file has any corruption.
 - **FIX:** obox: Update refresh-guid in storage if mailbox syncing adds any new mails
 - This is mainly intended to make sure that other servers will notice the updated refresh-guid and won't perform a TX-ROLLBACK that deletes mails that were already just added to the index.
- **BUG 53789:** User root bundle not always uploaded when saving/expunging mail
 - **FIX:** obox/lib-metacache: Fix uploading user root index on the first save/expunge
 - If user had no changes, metacache_user_upload_root() did nothing. This could have caused problems when moving users between backends, because the new backend might be using existing stale cache since it didn't see a new user root bundle.
- **BUG 52155:** Cached message size larger than expected (n > 0) still happened with obox_avoid_cached_vsize=yes
 - **FIX:** obox-plugin: Don't use cached message size if mail stream was already opened.
- **BUG 52211:** Sieve script changes lost when user migrated from backend to another
 - **FIX:** obox: Fix merging sieve scripts.
 - The index bundle with the newest Sieve script timestamp is used. All the Sieve scripts are replaced with the ones in that bundle, so there is no individual Sieve script merging.
- **BUG 52732:** doveadm obox user delete: Failed to delete mailbox ...: Mailbox has children, delete them first
 - **FIX:** doveadm obox user delete: delete children before parents
- **BUG 51952:** reboots timestamp tracking doesn't work correctly
- **BUG 52309:** User initialization failed: Deleting potentially corrupted metacache indexes after server crash
 - **FIX:** lib-metacache: bundle_reset() needs to reset also reboot_timestamp
 - Otherwise index opening can get into infinite loop when index is attempted to be deleted due to being detected as crashed.
 - **FIX:** lib-metacache: Fix reboot_was_crashed() to check the first timestamp correctly
 - **FIX:** lib-metacache: When deleting metacache due to reboots file contents, log info line
 - **FIX:** lib-metacache: make reboot timestamp tracking safer
 - The code tried to be generous and assumed that index files were ok if they were generated before a clean shutdown even if there was a crash afterwards. This simply isn't true; we can't fully trust any index file created before any crash.

- **FIX:** lib-metacache: reboot_was_crashed() - trust only exact matches
- **FIX:** lib-metacache: Reverse 1/0 handling in reboots file
 - The init scripts were writing them the other way around.

1.3. Unified Quota Plug-in

- **IMPROVEMENT DOV-779:** Add missing quota values to dict on read access
 - This way we can report our usage to dict even when there are no changes made.

1.4. General

- **Fix:** updated dovecot-ee and dovecot-ee-icu-plugin to use 3rdparty library icu56 on Centos/RedHat packages.

2. 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.