Release Notes for Dovecot Pro Minor release 2.2.31

1. Shipped Products and Versions

Dovecot Pro 2.2.31
Including Object Storage Plug-In and Pigeonhole Sieve
Important Changes and Bugs fixed since previous Public Release

IMPORTANT NOTE: obox installations using quota_over_script must currently also have quota_over_flag_lazy_check=yes enabled. Otherwise the quota_over_flag checking may cause a race condition with metacache cleaning, which may end up losing folder names or mail flags within folders.

1.1. Dovecot Pro Core

- **CHANGE DOV-851:** LMTP: Removed "(Dovecot)" from added Received headers. Some installations want to hide it, and there's not really any good reason for anyone to have it.

- **IMPROVEMENT DOV-783:** Add ssl_alt_cert and ssl_alt_key settings to add support for having both RSA and ECDSA certificates.

- **IMPROVEMENT DOV-920:** dsync/imapc, pop3-migration plugin: Strip trailing whitespace from headers when matching mails. This helps with migrations from Zimbra.

- **IMPROVEMENT DOV-901:** Parse invalid message addresses better. This mainly affects the generated IMAP ENVELOPE replies.

- **IMPROVEMENT DOV-942:** acl: Add acl_globals_only setting to disable looking up per-mailbox dovecot-acl files.

- **BUG 52239:** Panic: file index-mail-headers.c: line 198 (index_mail_parse_header_init): assertion failed: (!mail->data.header_parser_initialized)
  - **FIX**: lib-storage: Fix crash in mail_get_header_stream() when its previous stream wasn't at EOF

- **BUG DOV-802:** Nonexistent autocreated/autosubscribed mailboxes have various bugs, especially ACLs don't hide them. This caused some of the ACL rule interactions to not work exactly as intended.

- o **FIX:** acl: Skip auto=create|subscribe mailboxes that don't have lookup-right
- o **FIX:** lib-storage: Don't list duplicate autocreated mailboxes' parents
- o **FIX:** lib-storage: Add \NoInferiors flag to autocreated mailboxes with mbox
- o **FIX:** lib-storage: Fix mailbox_list_index=yes + ACLs + auto=subscribe mailboxes

- **BUG DOV-802:** ACL handling was slightly broken with LAYOUT=fs
  - o **FIX:** lib-storage: Fix ACL in parent mailbox potentially hiding its children.
  - o **FIX:** lib-storage: Fix LAYOUT=fs potentially not ignoring ACLs when requested

- **BUG DOV-802:** Global ACL file was parsed as if it was local ACL file
  - o **FIX:** acl: Global ACL file was parsed as if it was local ACL file
    - ▪ This caused some of the ACL handling not work exactly as expected.

- **BUG DOV-803:** Only some of the nonexistent autocreated/autosubscribed folders are listed.
  - o **FIX:** lib-storage: Do not drop autocreate boxes when listing them
    FIX: lib-storage: Apply mailbox_list_iter_autocreate_filter on mailbox_list_index_iter_next

- **BUG 54022:** Auth forward fields handling doesn't work properly: Only the first forward field was working, and only if the first passdb lookup succeeded.
  - o **FIX:** auth: Fix unescaping tabs in auth client input.
  - o **FIX:** auth: Don't lose all forward_ fields if the first passdb lookup fails.

- **BUG 54039:** quota=imapc sends unnecessary FETCH RFC822.SIZE to server when expunging mails
  - o **FIX:** quota: Fix imapc backend not to try to find out mail's size.

- **BUG 54116:** Broken sort-* indexes, resetting
  - o **FIX:** lib-storage: Fix sort index writing to not leave sort_id=0 gaps

- **BUG DOV-901:** Message address parsing could have crashed on invalid input.
  - o **FIX:** lib-mail: message_address_parse() - Fix reading out-of-bounds read on invalid input

- **BUG DOV-906:** imapc: Panic: file imapc-sync.c: line 477 (imapc_sync_index): assertion failed: (mbox->sync_fetch_first_uid == 1)
  - o **FIX:** imapc: Fix potential crash if initial sync fails.

- **BUG DOV-908:** imapc: GETQUOTA can hang if remote isn't connected to
  - o **FIX:** lib-imap-client: Fix hang when imapc_client_get_capabilities() is called without connection

- **BUG DOV-908:** imapc: Second SELECT fails with "Invalid mailbox name" if remote isn't connected to
  - o **FIX:** imapc: Remove auth_failed check from imapc_list_get_storage_name()

- **BUG DOV-913:** Corrupted dovecot.index.cache often crashed in v2.2.30: Panic: file mail-index-transaction-update.c: line 1018 (mail_index_update_ext): assertion failed: (seq > 0 && (seq <= mail_index_view_get_messages_count(t->view) || seq <= t->last_new_seq))
  - o **FIX:** lib-storage: Fix setting the correct cache record corrupted

- **BUG DOV-919:** Welcome plugin scripts weren't being called in v2.2.30
  - o **FIX:** welcome: Fix sending parameters to welcome script.

- **BUG 51556:** quota_warning = -storage=.. is never executed with quota=count
  - o **FIX:** quota: Fix negative quota_warnings with count backend

- **BUG 53396:** SORT: NO [SERVERBUG] Mail field not cached
  - **FIX:** lib-storage: Fix SORT error message when reaching mail_sort_max_read_count
    - It should have been: NO [LIMIT] Requested sort would have taken too long

- **BUG 53433:** dsync/imapc incremental migration fetches all message headers
  - **FIX:** lib-index: Fix cache lookups from uncommitted transactions with in-memory indexes
- **BUG 53433:** Deleting mailbox ...: UID=... already exists locally for a different mail: Headers hashes don't match
  - **FIX:** lib-mail: istream-header-filter – Fix HEADER_FILTER_ADD_MISSING_EOH with empty input
    - This fixes calculating hashes for incremental dsync when mail didn't have Date or Message-ID headers

- **BUG 54144: SORT:** High CPU usage with mail_sort_max_read_count when a lot of mails couldn't be looked up in a large mailbox.
  - **FIX:** lib-storage: Optimize error handling for SORT
  - **FIX:** lib-index: Add cache to mail_cache_get_missing_reason()

- **BUG 51481:** imap hangs with pipelined SEARCH+EXPUNGE/CLOSE/LOGOUT
  - **FIX:** imap: Fix pipelining commands with SEARCH

- **BUG 52153:** POP3 login reply should be sent earlier
  - **FIX:** pop3: send back auth reply sooner if pop3_lock_session=no
    - This way Dovecot proxies don't log login timeout errors when user initialization takes a long time (with obox)

- **BUG DOV-891:** OAuth2 token validation does not accept empty responses
  - **FIX:** lib-oauth2: Accept empty responses

- **BUG DOV-915:** mail-crypt-acl plugin crashes in v2.2.30: Panic: file mail-namespace.c: line 759 (mail_namespace_find_inbox): assertion failed: (namespaces != NULL)
  - **FIX:** mail-crypt-acl: Fix assert-crash due to missing namespace initialization

- **BUG 54273:** LMTP crashes with push_notification plugin enabled: Panic: file ioloop.c: line 125 (io_remove_full): assertion failed: (io->callback != NULL)
  - **FIX:** push-notification: Switch to main ioloop while calling drivers' commit callbacks

- **BUG 54336:** Panic: file imap-login-client.c: line 229 (cmd_id_handle_keyvalue): assertion failed: (client_id_str == !client_id_reserved_word(key))
  - **FIX:** imap-login: Fix crash in ID if trusted client sends NIL as the value of an internal field

- **BUG 54381:** IMAP NOTIFY crashes: Panic: file imap-notify.c: line 397 (imap_notify_callback): assertion failed: (client->command_queue_size == 0)
  - **FIX:** imap: NOTIFY - Fix delayed setting notification callback
  - **FIX:** imap: NOTIFY - Fix crash due to not hooking into commands correctly

- **BUG DOV-941:** Closing HTTP connection leaks memory
  - **FIX:** lib-http: Fix memory leak in HTTP connection deinit

- **BUG 50626:** quota=count doesn't support ns parameter
  - **FIX:** common quota parameter parsing function implemented

1.2.   Object Storage Plug-in

- **IMPROVEMENT DOV-520:** After moving user to a new backend, keep refreshing folders' metacache until the backend has modified the user in some way. This allows safely pre-filling users' metacache before doing the actual move, so that after the final move the new backend will still notice changes potentially done by the old backend.

- **IMPROVEMENT DOV-911:** Add obox_disable_fast_copy setting to disable using object storage's copy operation.

- **BUG 53903:** lib-http: Read timeout causes: Panic: BUG: No IOs or timeouts set. Not waiting for infinity.
    - **FIX:** fs-plugins: Handle a destroyed HTTP request as having received input

- **BUG 54384:** obox: Unexpectedly lost mail error started happening in v2.2.30
    - **FIX:** lib-metacache: Fix race condition with .transaction file create/iteration

- **BUG 54138**: Panic: file metacache-index.c: line 1183 (metacache_save_create_tx_fd): assertion failed: (!guid_128_is_empty(save->index->refresh_guid))
    - **FIX:** lib-metacache: Immediately set index's refresh_guid when mailbox is created

- **BUG 53513:** Mails' saved-timestamp is lost
    - **FIX:** obox: Get save date directly from OID
        - It can't get lost even if index files are entirely lost/rebuilt.

- **BUG 54244:** Opening mailbox crashes after partially failed mailbox deletion
    - **FIX:** obox: Fix crash when attempting to undelete mailbox

1.3.   Pigeonhole Sieve

- **CHANGE:** Adjusted Pigeonhole to several changes in the Dovecot API, making it depend on Dovecot v2.2.31. Previous versions of Pigeonhole will produce compile warnings with the recent Dovecot releases (but still work ok).

- **BUG:** Fixed bug in handling of implicit keep in some cases. Implicit side-effects, such as assigned flags, were not always applied correctly.

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.