Release Notes for Release Dovecot Pro 2.2.27.1

1. Shipped Products and Versions

Dovecot Pro 2.2.27.1

Including; Object Storage Plug-In and Full Text Search

NOTE: If you have been using the Mail Crypt feature, the package will be replaced by the new core plugin.

2. Important Changes and Bugs fixed since previous Public Release

2.1. Dovecot Pro Core

- **CHANGE:** updated Mail Crypt
  - Per-user keys encryption
  - Support for passwords encryption from user password
  - ACL support:
    - shared folders keys are automatically copied on sharing

- **CHANGE**: dovecot.list.index.log rotation change
  - dovecot.list.index.log rotation sizes/times were changed so that the .log file stays smaller and .log.2 is deleted sooner.

- **CHANGE**: stats: Global stats can be sent to Carbon
  - Global stats can be sent to Carbon server by setting stats_carbon_server=ip:port
  - Optionally you can specify stats_carbon_name=non-fqdn-name

- **CHANGE:** imap/pop3 proxy: If passdb returns proxy_not_trusted, don't send ID/XCLIENT

- **CHANGE:** Added generic hash modifier for %variables: %{<hash algorithm>;rounds=<n>,truncate=<bits>,salt=s:field} Hash algorithm is any of the supported ones, e.g. md5, sha1, sha256. Also "pkcs5" is supported using SHA256. For example: %{sha256:user} or %{md5;truncate=32:user}.

- **CHANGE**: Added support for SHA3-256 and SHA3-512 hashes.

- **CHANGE:** config: Support DNS wildcards in local_name, e.g. local_name *.example.com { .. } matches anything.example.com, but not multiple.anything.example.com.

- **CHANGE:** config: Support multiple names in local_name, e.g. local_name "1.example.com 2.example.com" { .. }

- **CHANGE:** Support prioritized metacache cleaning, This allows metacache to preserve higher priority data longer than lower priority data, for example INBOX and \Junk is preserved longer than other folders, because they commonly receive incoming mails. User root indexes are also preserved longer than others, because their disk space usage is pretty small and they are always needed when user is accessed. It's possible to revert to the old non-prioritized cleaning by setting metacache_priority_weights and metacache_size_weights settings to empty (these settings are NOT inside plugin {}, unlike other metacache settings).

- **CHANGE:** Renamed owm-pop3-uidl plugin to pop3-uidl-migrate and make it more generic.
  - Added pop3_uidl_migrate_format setting that allows also uidvalidity and uid to be used for UIDL generation

- **CHANGE:** auth-policy: Allow unsupported attributes in response
  - This allows better interoperability with different systems that are getting signals from auth policy server that are not (yet) supported by dovecot.

- **BUG 47501:** Some users aren't being redirected correctly by director
  - **FIX:** director: Keep per-tag directory

- **BUG 46634:** Logs flooded with Error: mmap() failed with file dovecot.index.cache: Cannot allocate memory
  - **FIX: l**ib-index: Limit mmap errors in txn log file to 1/s
  - **FIX:** lib-index: Limit mmap syscall errors in index to 1/s
  - **FIX:** lib-index: Limit mmap errors in index cache to 1/s

- **BUG 47314:** mailbox_get_metadata assertion failed
  - **FIX:** lib-storage: If mailbox_create() fails, don't leave box in partially opened state.

- **BUG 47364:** Doveadm panic with purge

- o **FIX:** mdbox: Fix assert-crash caused by race condition with multiple doveadm purges.

- **BUG 49418:** Header's corrupted flag is set
    - **FIX:** lib-index: Handle invalid headers as "corruption", not "temporary error"

- **BUG 49413:** imap: Warning: Timeout leak
    - **FIX:** imap: Free box on error

- **BUG 49414:** Lost log for seq=4 offset=40: Missing middle file seq=4
    - **FIX:** lib-index: mail_transaction_log_find_file() - remove wrong optimization.

- **BUG 49865:** doveadm save with nonexistent input file crashes
    - **FIX:** doveadm-save: Check stream errno before save

- **BUG 49592:** intercept_box does not support %{crypted_user}
    - interecept-box: Redesign how intercept_box_path is used and support %{crypted_user}

- **BUG 49911:** Setting nolinks-limit results Dovecot process in RUN state, but it is not making any system calls
    - **FIX:** dict-client: Forward dict_iterate_set_limit() to dict server

- **BUG 49899:** vsize header isn't added for empty mailboxes
    - **FIX:** lib-storage: Return vsize=0 from mailbox list index for empty mailboxes.

- **BUG 46451:** Dovecot 2.2.24 coredump client_check_command_hangs()
    - **FIX:** imap: Fix assert when waiting for input

- **BUG 49868:** configure fails to run with CFLAGS=-Werror
    - **FIX:** m4: Fix compiler warnings
        - Makes it work with -Wall -W –Werror

- **BUG 50234:** auth process crashes if SASL fails before username is received
    - **FIX:** auth: Fix auth-policy crash when username is NULL

- **BUG 50058:** Panic: file mail-html2text.c
    - **FIX:** lib-mail: Fix assert-crash in mail_html2text_more() with invalid input.

- **BUG 50096:** doveadm mailbox rename under its child corrupts dovecot.list.index
    - **FIX:** LAYOUT=index: Try to rename corrupted mailbox name during mailbox open
    - **FIX:** lib-storage: Added struct mailbox.corrupted_mailbox_name
    - **FIX:** LAYOUT=index: Don't write corrupted mailbox names to box-name header.
    - **FIX:** lib-storage: Preserve box-name header when rebuilding index.

- o **FIX:** LAYOUT=index: Update mailbox name to mailbox index's header when opening.
- o **FIX:** lib-storage: Prevent renaming mailbox under itself.
- o **FIX:** lib-storage: Prevent parent loops in mailbox list index
- o **FIX:** lib-storage: Fix invalid parents in LAYOUT=index
- o **FIX:** lib-storage: Improve mailbox list index corruption errors
- o **FIX:** lib-storage: If LAYOUT=index loses mailbox names, write the generated ones to index.
- o **FIX:** lib-storage: Fix handling LAYOUT=index losing mailbox names

- **BUG 50098:** Fatal: master: service(imap): child 77700 killed with signal 11
  - o **FIX:** lib-storage: Fail if no namespaces have list=yes

- **BUG 48043:** imap-hibernate crashes
  - o **FIX:** imap: Fix recent flags importing when un-hibernating

- **BUG 50254:** dovecot.list.index corruption shouldn't clear out all the folder names
  - o **FIX:** lib-index: fsck: Fix log_file_head|tail_offset properly
  - o **FIX:** lib-index: If index open fails with fsck, retry opening once.
  - o **FIX:** lib-storage: Rename mailbox_list_index.corrupted to corrupted_names_or_parents
  - o **FIX:** lib-index: fsck now adds MAIL_INDEX_HDR_FLAG_FSCKD to header.
  - o **FIX:** lib-index: Add mail_index_unset_fscked()
  - o **FIX:** lib-storage: Add mail_storage.list_index_corrupted()
  - o **FIX:** lib-storge: Call mail_storage.list_index_corrupted() when needed
  - o **FIX:** sdbox: Rebuild index after it's been fsck'd
  - o **FIX:** mdbox: Rebuild index after it's been fsck'd

- **BUG 50292:** Moving a mail between different quota roots ignores quota-checks
  - o **FIX:** quota: Don't skip quota checks when moving mails between different quota roots.

- **BUG 49987:** doveadm import cannot import from readonly location
  - o **FIX:** For mbox, use :INDEX=MEMORY

- **BUG 50012:** doveadm director dump does not dump tag information
  - o **FIX:** doveadm-director: Include tag in add line

- **BUG 50099:** dovecot: auth: Panic: file auth-request.c
  - o **FIX:** Reset request on invalid token

- **BUG 49728:** Core dump when running "doveadm dump"
  - o **FIX:** lib-index: Do not crash if log is missing

- **BUG 50200:** http-client panics on connect failure
  - **FIX:** lib-http: client: Fixed assert failure occurring when a new connection fails for a peer that has active connections.

- **BUG 50209:** lmtp crashes after updating to 2.2.26.1
  - **FIX:** lib-program-client: Do not call callback when destroying

- **BUG 50522:** doveadm: Error: safe_mkstemp(/tmp) failed: Permission denied
  - **FIX:** doveadm-server: http: Fixed temp_path_prefix for iostream-temp.

- **BUG 50306:** Search simplifier doesn't handle sequences/UIDs correctly in AND/OR conditions
  - **FIX:** lib-storage: Fix simplifying sequence sets and UID sets.
  - **FIX:** lib: seq_range_array_*(): Fix seq2=2^32-1 handling

- **BUG 50531:** crash when dovecot.list.index was deleted
  - **FIX:** lib-storage: Do not try to recover missing list index

- **BUG 50599:** Dovecot MySQL driver has invalid usage for HEX function
  - **FIX:** driver-mysql: Do not hex-encode again
    - Use correct syntax to provide data to mysql in hex format, without recoding it in hex format again.

2.2.   Object Storage Plug-in

- **CHANGE:** Add obox-user-objects script
  - This script can be used to get mappings between filenames and object IDs in storage.

- **CHANGE:** Implemented obox_rescan_mails_once_after=<timestamp> setting.
  - This forces the next mailbox open after the specified timestamp to rescan the mails to make sure there aren't any unindexed mails.

- **BUG 50254:** dovecot.list.index corruption shouldn't clear out all the folder names
  - **FIX:** obox: Implement mail_storage.list_index_corrupted()
  - **FIX:** obox: Code cleanup - rename hdr to obox_hdr
  - **FIX:** obox: Rebuild index if MAIL_INDEX_HDR_FLAG_FSCKD is set

- **BUG 50060:** Warning: Timeout leak: 0x7f87a478f90
  - **FIX:** lib-metacache: Fixed running metacache_user_usage_write() in non-main

2.3.   Full Text Search Plug-in

- **BUG 48121:** indexer-worker crash in fs_fts_cache_sync_file_start_upload()
  - **FIX:** fs-fts-cache: Fix crash if fs_write_stream_finish() fails

- **BUG 50059:** Panic: file fts-tokenizer.c:
  - **FIX:** lib-fts: Make sure address tokenizer can't return empty tokens.

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.