Release Notes for Dovecot Pro Minor release 2.2.33.1

1. Shipped Products and Versions

Dovecot Pro 2.2.33.1
Including Object Storage Plug-in, Full Text Search, Pigeonhole Sieve Plug-in, Zimbra Compability Plug-in and Dovemon
Important Changes and Bugs fixed since previous Public Release

1.1.   Dovecot Pro Core

- **NEW FEATURE DOV-1305:** notify status plugin
  - Added a new notify_status plugin, which can be used to update dict with current status of mailbox when it changes.
    See https://wiki2.dovecot.org/Plugins/NotifyStatus
- **IMPROVEMENT DOV-281:** Cassandra: Add support for prepared statements
  - dict-sql: Cassandra driver is using prepared statements now automatically when Cassandra protocol version >3. This requires Cassandra v2.2 or newer.
- **IMPROVEMENT DOV-794:** Add dsync_hashed_headers setting to specify which headers are used to match emails when GUIDs aren't available.
- **IMPROVEMENT DOV-904:** doveconf: Preserve import_environment when executing binary
  - Environments listed in import_environment setting are now set or preserved when executing standalone commands (e.g. doveadm)
- **IMPROVEMENT DOV-1068:** doveadm: Support proxying logs
  - Update doveadm protocol to proxy logs from remote endpoint.
- **IMPROVEMENT DOV-1071:** LDAP auth: Expose DN with % {ldap_dn}
- **IMPROVEMENT DOV-1158:** Support if-checks in %variables
  - Added support for conditionals to var expand.
- **IMPROVEMENT DOV-1210:** doveadm director commands should wait until the whole ring has seen the changes
  - director: doveadm HOST-* commands now wait for ring sync before returning OK
  - director: Run director/host changing doveadm commands only after ring is synced

- **IMPROVEMENT DOV-1281:** pop3-migration: Use cache UIDLs if they exist
  - pop3-migration: Try to assign UIDLs based on dovecot.index.cache
    - Add the UIDLs to (imapc) mailbox cache after they've been assigned.
    - Try to read them from the cache on the next sync to avoid reading mails' headers.
    - This can be disabled with pop3_migration_skip_uidl_cache=yes, just in case there's some kind of a problem with it.
- **IMPROVEMENT DOV-1282:** Disable mailbox_list_index=yes per namespace
  - Setting LISTINDEX to empty for namespace location will disable list index for that namespace.
- **IMPROVEMENT DOV-1312:** pop3-migration: Strip invalid header lines
  - Remove invalid header lines when comparing pop3 and imap headers.
    - If there's no ":" in the header, remove it. Fixes matching mails with Zimbra.
- **IMPROVEMENT DOV-1317:** pop3-migration: n POP3 messages have no matching IMAP messages - all IMAP messages were found (POP3 contains more than IMAP INBOX)
  - This can happen because a new mail was delivered that's visible in POP3 but not in IMAP yet. Add pop3_migration_ignore_extra_uidls setting to ignore the extra POP3 mails that are not yet available over IMAP.
- **BUG 49831/DOV-555:** doveadm sync -1 returns exit code 2 when local mailboxes exist that do not exist remotely. This commonly happened when lazy_expunge mailbox was autocreated when incremental sync expunged mails.
  - **FIX:** If folder(s) exist locally that do not exist on remote system, do not fail due to them not existing when doing unidirectional sync.
- **BUG 53459/DOV-786:** LMTP session IDs are confusing/wrong
  - **FIX:** Do not use incremented session:N suffix on RCPT TO stage quota lookup, instead add ":quota" suffix.
- **BUG DOV-924: dsync:** Panic: file dict.c: line 104 (dict_deinit): assertion failed: (dict->iter_count == 0)
  - **FIX:** De-initialize mailbox attribute iterator if one exists
- **BUG 53350/DOV-1013:** SEARCH MIME FILENAME is case-sensitive
  - **FIX:** Made MIME FILENAME search criterion match case-insensitively.
- **BUG 53128/DOV-1018:** Using comma in section names crashes: doveconf: Panic: file config-parser.c: line 89 (config_add_type): assertion failed: (ret > 0)
  - **FIX:** Fix parser to escape commas as part of section name
- **BUG DOV-1133:** director: doveadm director flush causes 100% CPU load on imap-login processes
  - **FIX:** Cache director_username_hash between KICK-DIRECTOR-HASH commands
- **BUG DOV-1166:** On some particular HTTP responses, dovecot's lib-http would parse Date header wrong causing incorrect behaviour.
  - **FIX:** Treat Date header correctly
- **BUG 55013/DOV-1195:** doveadm director status returns stale information on server without traffic
  - **FIX:** Add timeout to expire users when there is otherwise no activity on director.
- **BUG DOV-1220:** push-notification-ox: Invalid JSON if from/subject/snippet is missing
  - **FIX:** JSON syntax for OX push notification plugin.
- **BUG DOV-1229:** doveadm mcp keypair generate -f parameter doesn't work
  - **FIX:** doveadm mcp keypair generate: Fix -f parameter
- **BUG DOV-1272: dir**ector: doveadm director flush fails if all backends are down
  - **FIX:** director: Avoid "ring sync timeout" errors when all backends are down
  - **FIX:** director: Fix crash when flush is run and all backends are down.
- **BUG DOV-1286:** sdbox: Mails are always opened when expunging
  - **FIX:** Never open mail files when doing expunging. This happened if mail_attachment_fs was left non-empty while mail_attachment_dir was empty.

- **BUG DOV-1300:** Doveadm director kick -f fails with: invalid option – 'f'
  - **FIX**: 'f' option to work again.
- **BUG DOV-1302:** Accessing compressed mbox can crash with: Panic: file istream-zlib.c: line 421 (i_stream_zlib_seek): assertion failed: (ret == -1)
  - **FIX:** libcompression decompressors to treat seek errors correctly
- **BUG DOV-1318:** pop3-migration: Extra POP3 messages aren't detected when all mails are matched by size
  - **FIX:** Fail if all IMAP mails were matched by size, but POP3 had extra mails
    - This makes the handling same as what happens when the same situation happens and the last mails were matched by headers. That's an error, unless pop3_migration_ignore_*_uidls=yes.
- **BUG DOV-1342:** LMTP client did not correctly handle an unexpected (e.g. shutdown-related) reply while sending RCPT TO commands. This caused the LMTP service to crash while proxying for a user.
  - **FIX:** Added explicit handling for unexpected replies where needed.
- **BUG DOV-1356:** director: Removing director may cause hangs and inefficient behaviour
  - **FIX:** director: Don't reset directors' last_network_failure while handshaking
  - **FIX:** director: When director is removed, notify it before disconnecting
  - **FIX:** director: After CONNECT was received, make sure we disconnect
  - **FIX:** director: Ignore CONNECT requests to hosts that have been removed already
- **BUG DOV-1396:** mail_crypt_plugin: Panic: file doveadm-mail.c: line 429 (doveadm_mail_next_user): assertion failed: (ctx->exit_code != 0)
  - **FIX:** Fix error handling in mail crypt doveadm plugin during key generation
- **BUG DOV-1234:** director: doveadm director commands may be ignored sometimes
  - **FIX:** Run director/host changing doveadm commands only after ring is synced
- **BUG DOV-1329:** lmtp/doveadm: hostip passdb field is ignored when proxying
  - **FIX:** Avoid DNS lookup for "host" if "hostip" is given
- **BUG 55700/DOV-1406:** Quota_clone plugin does not update the number of messages for the user
  - **FIX:** Always update quota values in quota_clone
- **BUG DOV-1425:** pop3: rawlog_dir setting doesn't work
  - **FIX:** Expand settings in pop3 process, so that rawlog_dir gets set properly.
- **BUG DOV-1427:** acl: create permissions doesn't work correctly in global ACL file
  - **FIX:** Correctly handle 'k' permission in global ACL file. Before this fix, user was able to create subfolders if the parent folder had not been opened.

1.2. Object Storage Plug-in

- **IMPROVEMENT DOV-1094:** sproxyd: Support class parameter as hex
  - Scality adds new CoS value "A". Dovecot can already parse it as class=10, but would be clearer if we can use "class=A" the same as it's in Scality configuration.
- **IMPROVEMENT DOV-1345:** fscache: Improve performance
  - Optimize fscache log handling. It's recommended to run "doveadm fscache rescan" after upgrading, especially if any fscache related errors are being logged.
- **IMPROVEMENT DOV-1363:** fs-auth: Reduce the number of Keystone requests
  - fs-auth: Add fs_auth_request_timeout_msecs and fs_auth_request_max_retries settings
  - fs-auth: Avoid duplicating auth requests while identical request is already pending
  - fs-auth: Add fs_auth_cache_dict setting to cache tokens in the dict
- **BUG DOV-1298:** obox: timeout_msecs no longer affects write/delete timeouts
  - **FIX**: timeout_msec is used as default for other timeouts.
- **BUG DOV-1336:** fts, fs-dictmap: If indexing fails to write to object storage, crashes with Panic: file fs-dictmap.c: line 770 (fs_dictmap_file_parent_lookup): assertion failed: (file->object_id != NULL)
  - **FIX:** fs-dictmap: Do not attempt to delete object if it wasn't successfully written to storage.
- **BUG DOV-1339:** obox: .upload.lock timeouts with many concurrent mail deliveries
  - **FIX:** lib-metacache: Avoid deleting .upload.lock when other processes are waiting on it
    - This fixes: Error: obox: Uploading indexes failed: Creating a locked file .../.upload.lock keeps failing
  - **FIX:** lib-metacache: While waiting for .upload.lock, periodically check if it's needed anymore
    - While waiting for .upload.lock, every 5 seconds check whether another process has already uploaded the wanted mailbox indexes to object storage.
  - **FIX:** obox: When obox_max_rescan_mail_count is reached at saving, upload indexes in the background
    - This removes index uploading from being a bottleneck when saving a lot of mails in separate transactions.
- **BUG DOV-1371:** obox: If all bundles are detected to be lost, a new bundle isn't immediately uploaded
  - **FIX:** lib-metacache: If all index bundles are lost, use local metacache if it exists
- **BUG DOV-1397:** Bundle iteration cache isn't updated correctly, resulting in errors such as: Locally unpacked bundle ... is marked obsolete, but storage doesn't have any newer bundles
  - **FIX:** lib-metacache: Delayed "latest bundle" metadata updates .state weren't always written
  - **FIX:** lib-metacache: When "latest bundle" is updated, iter cache may need to be cleared too.

1.3.   Full Text Search Plug-in

- **BUG 55403/DOV-1338:** FTS search/indexing may crash if object storage isn't available: Panic: file fts-file-cache.c: line 1523 (fts_cache_deinit): assertion failed: (!cache->in_transaction)
    - o **FIX**: fts_cache_find_highest_uid() - don't leak transaction on errors
- **BUG DOV-1390:** fts_dovecot: OR searches don't work correctly
    - o **FIX:** Fix OR searches to work correctly.

1.4.   Pigeonhole Sieve Plug-in

- **BUG DOV-1359:** "flag" action in zimbra compat extension does not work
    - o **FIX:** Fix flag handling for implicit keep
- **BUG DOV-1325:** Pigeonhole sieve: support configuring value of X-Sieve-Redirected-From
    - o **FIX:** Always set X-Sieve-Redirected-From header to sieve_user_email if configured.

1.5.   Zimbra Compatibility Plug-in

- **BUG DOV-1192:** sieve-zimbra-addressbook: Initialization failure leaks ioloop
    - o **FIX:** resource leak in zimbra addressbook plugin when it fails to initialize.

1.6.   Dovemon

- **BUG DOV-1395:** Dovemon stop script can leave dovemon process 'hanging' due to race condition on removing pid file
    - o **FIX:** dovemon: fix bug when dovemon left behind zombie process during shutdown if lockfile was removed by initscript before dovemon removed it.

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.