



Release Notes for Dovecot Pro

Minor Release v2.3.4

Table of Contents

1. Shipped Products and Versions.....	2
2. Release Highlights	2
3. Upgrade Instructions	2
4. Known Issues	2
5. Detailed Changes.....	4
5.1. Dovecot Pro Core	4
5.2. Object Storage Plug-in	5
5.3. IMAP Injection Plug-in (OX Engage).....	5
6. Tests.....	6

1. Shipped Products and Versions

Dovecot Pro v2.3.4

Including Object Storage, Full Text Search, Pigeonhole Sieve, and IMAP Injection Plugins

2. Release Highlights

This release focuses on continued hardening of the 2.3.x branch, incrementally adding improvements to the logging/metrics system, and adding an extensible way to configure push notification handlers via Lua scripting.

- Fix authorization when using AWSv4 signatures with S3 obox driver.
- New Lua push notification driver.

3. Upgrade Instructions

- The default `postmaster_address` setting is now `"postmaster@<user domain or server hostname>"`. If username contains the `@domain` part, that is used. If not, then the server's hostname is used. [See DOV-2581]
- `"doveadm stats dump"` now returns two decimals for the "avg" field. [See DOV-2630]
- Settings added:
 - `imap_injection_non_fixed_mail_time_offset` [imap injection plugin; see DOV-2690]
- The libsodium library packaged by us as a Dovecot dependency was upgraded to version 1.0.16.
 - The name of the libsodium package changed. Installing Dovecot Pro v2.3.4 will pull in the newer library from the Dovecot 3rd party repository.
 - `libsodium18` will be replaced with `libsodium23` during the upgrade.
 - `libsodium` is currently only used by Argon2 password encryption.

4. Known Issues

- Not all Dovecot 2.2.x logging has been converted to Dovecot 2.3.x events, so newer logging/metrics configuration will not work on these older log entries.
- Due to on-going changes in Dovecot logging & statistics, event leak warnings may occur in the logs. [DOP-660]
 - Example: "Warning: Event 0x564bde864a00 leaked" may appear in logs.
 - Known situations where these warnings are emitted include Dovecot restarts, typos in Dovecot configuration, and external services (auth or dict) failing to respond.
 - The warnings may repeat, sometimes at a fixed time (e.g. 30 minutes) after the related error (e.g. auth error).
 - These warnings do not affect system performance, and no action is required to address them.
 - These spurious warnings will be resolved in a future release of Dovecot.

- Assert crash may occur on an interrupted APPEND when using Maildir + zlib plugin. [DOP-652]
- `login_proxy_max_disconnect_delay` may cause a panic when using a non-default setting (e.g. `imap-login: Panic: io_add(0x1) called twice fd=17, callback=0x7fb039a122f0 -> 0x7fb039a0c8b0`). Workaround: remove the setting from Dovecot config or set to the default value (default = 0). [DOV-2648; DOV-2670]
- In some cases, the output from doveadm log errors does not contain user/session information. The log files are unaffected by this. [DOV-2676]
- HTTP storage connection problems can lead to panics (`http-client-queue.c: line 518 (http_client_queue_connection_failure): assertion failed: (queue->cur_peer == peer)`). [DOP-672]

5. Detailed Changes

5.1. Dovecot Pro Core

- **IMPROVEMENT DOV-2489:** Add logging and statistics events for SQL queries.
 - See <https://wiki2.dovecot.org/Events#SQL>
- **IMPROVEMENT DOV-2492:** Add logging and statistics events for DNS lookups.
 - See <https://wiki2.dovecot.org/Events#DNS>
- **IMPROVEMENT DOV-2493:** Add logging and statistics events for generic connection handling API. Note that only some connections currently use this API, so only they get the events.
- **IMPROVEMENT DOV-2536:** Added "doveadm mailbox cache purge" command to explicitly recreate the dovecot.index.cache file, optimizing it and dropping deleted content. This is normally done automatically, so this command exists mainly for testing purposes.
- **IMPROVEMENT DOV-2608:** New push notification driver that uses a Lua script.
- **IMPROVEMENT DOV-2656:** Lua scripts can now use Dovecot events.
 - See <https://wiki2.dovecot.org/Design/Lua>
- **IMPROVEMENT DOV-2660:** dovecadm force-resync -f parameter performs "index fsck" while opening the index. This may be useful to fix some types of broken index files. This may become the default behavior in a later version.
- **CHANGE DOV-2581:** The default postmaster_address is now "postmaster@<user domain or server hostname>". If username contains the @domain part, that's used. If not, then the server's hostname is used.
- **CHANGE DOV-2630:** "doveadm stats dump" now returns two decimals for the "avg" field.
- **ISSUE DOV-2417:** director: Kicking a user crashes if login process is very slow: Panic: file director.c: line 1025 (director_kill_user_callback): assertion failed: (ctx->dir->users_kicking_count > 0)
- **ISSUE DOV-2534:** pop3: With pop3_no_flag_updates=no: If a message is DELETED and RETRed, it gets expunged at client disconnection even though QUIT hasn't been sent.
- **ISSUE DOV-2542:** imap: Running UID FILTER script with errors crashes: Panic: file imap-filter-sieve.c: line 705 (imap_sieve_filter_run_scripts): assertion failed: (sbin != NULL)
- **ISSUE DOV-2578:** imap: Fix command ambiguity checking with special plugins, causing commands to wrongly send: * BAD [CLIENTBUG] Command pipelining results in ambiguity

- If the tagged reply is already sent, that command can't result in ambiguity anymore.
- **ISSUE DOV-2594:** dsync, pop3-migration: POP3 UIDs weren't added to dovecot.index.cache while mails were saved. This caused the first POP3 access to slowly read them from the mails' metadata.
- **ISSUE DOV-2602:** dict clients may have been using 100% CPU while waiting for dict server to finish commands.
- **ISSUE DOV-2614:** doveadm user listing via HTTP API didn't return the output in JSON string, but instead wrote it to stdout.
- **ISSUE DOV-2619:** All levels of Cassandra log messages were logged as Dovecot errors.
- **ISSUE DOV-2649:** The HTTP client sometimes causes a segfault crash just after the SSL handshake. This problem is only likely to surface during lengthy operations involving the HTTP client, such as running `doveadm backup` for an obox/S3 mail storage.
 - **FIX:** Guarantee that the HTTP connection is always fully initialized before trying to read from the connection, especially after performing the SSL handshake.
- **ISSUE DOV-2650:** The SMTP client sometimes causes a segfault crash just after the SSL handshake. This problem is only likely to surface during lengthy operations involving the SMTP client.
- **ISSUE DOV-2691:** Lua auth mistakenly converted strings that looked like numbers into numbers.

5.2. Object Storage Plug-in

- **ISSUE DOV-2601:** fs-s3: AWS version 4 signature calculation wasn't done correctly, causing requests to fail with 403 Forbidden.
- **ISSUE DOV-2660:** obox: Fix panic when opening corrupted index with unordered UIDs: Panic: file obox-sync-rebuild.c: line 483: unreachable

5.3. IMAP Injection Plug-in (OX Engage)

- **IMPROVEMENT DOV-2690:** The time offset used to create the Date header is now configurable via `imap_injection_non_fixed_mail_time_offset`.
- **ISSUE DOV-2681:** Copying or moving promotional mail to a non-promo mailbox causes the mail to be lost.
- **ISSUE DOV-2689:** Injected promo mails that have been seen by the user are kept past the campaign time limits.

6. Tests

The Dovecot QA team has successfully verified all issue 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.