



# Release Notes for OX Dovecot Pro

## Minor Release v2.3.19

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# 1. Shipped Products and Versions

OX Dovecot Pro v2.3.19

Built on Dovecot Community Edition Core v2.3.19

Including Object Storage (obox) and Full Text Search (fts-dovecot) Plug-ins

Supported OS Distributions:

- [Amazon Linux 2](#)
- [CentOS 7.9](#)
- [RHEL 7.4, 8.2](#)
- [Debian buster \(10\), bullseye \(11\)](#)
- [Ubuntu 18.04 LTS \(bionic\), 20.04 LTS \(focal\)](#)

Apache Cassandra Driver: [v2.16.0](#)

## 2. Release Highlights

This is a maintenance release of OX Dovecot Pro v2.3 branch, which contains optimizations, bug fixes, and minor feature additions.

NOTE: Support for Ubuntu 18.04 LTS (bionic) will be dropped in a future release.

### **Lua HTTP Support**

Lua scripts now have an API to access the internal Dovecot lib-http library. See, e.g., [https://doc.dovecot.org/admin\\_manual/lua/#dovecot.http.client](https://doc.dovecot.org/admin_manual/lua/#dovecot.http.client) for documentation.

### **Automated Process Restarts**

The `mail_user_session_finished` event was added, which provides telemetry information on the current status of a Dovecot process. This event can be used with the new `process_shutdown_filter` configuration setting to automatically shutdown processes based on, for example, the current memory usage of the process. See [https://doc.dovecot.org/settings/core/#core\\_setting-process\\_shutdown\\_filter](https://doc.dovecot.org/settings/core/#core_setting-process_shutdown_filter).

### **Summary of Highlights**

- Lua HTTP support
- `process_shutdown_filter` setting added
- Optimized fts-dovecot for searches with multiple terms

## 3. Upgrade Information

Added events (see [https://doc.dovecot.org/admin\\_manual/list\\_of\\_events/](https://doc.dovecot.org/admin_manual/list_of_events/)):

- `mail_user_session_finished`

Changed events:

- `auth passdb/userdb finished` events
  - Add cache hit indicator.

New settings:

- `process_shutdown_filter`
  - [https://doc.dovecot.org/settings/core/#core\\_setting-process\\_shutdown\\_filter](https://doc.dovecot.org/settings/core/#core_setting-process_shutdown_filter)

Added plugin:

- `nfs_hostchange`
  - [https://doc.dovecot.org/configuration\\_manual/plugins/nfs\\_hostchange\\_plugin/](https://doc.dovecot.org/configuration_manual/plugins/nfs_hostchange_plugin/)

## 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.

## 5. Detailed Changes

### 5.1. OX Dovecot Pro Core

- **IMPROVEMENT DOV-4991:** Added `mail_user_session_finished` event, which is emitted when the mail user session is finished (e.g. imap, pop3, Imtp). It also includes fields with some process statistics information.
- **IMPROVEMENT DOV-4991:** Added `process_shutdown_filter` setting. When an event matches the filter, the process will be shutdown after the current connection(s) have finished. This is intended to reduce memory usage of long-running imap processes that keep a lot of memory allocated instead of freeing it to the OS.
- **IMPROVEMENT DOV-5056:** storage: Add support for using `NO-NOSELECT` with `LAYOUT=index`. See [https://doc.dovecot.org/configuration\\_manual/mail\\_location/#format](https://doc.dovecot.org/configuration_manual/mail_location/#format) for details about `NO-NOSELECT` usage.
- **IMPROVEMENT DOV-5112:** Improved "doveadm deduplicate" performance significantly.
- **IMPROVEMENT DOV-5174:** Add cache hit indicator to auth passsdb/userdb finished events.
- **IMPROVEMENT DOV-5190:** Add a Lua interface to Dovecot's HTTP client library.
- **IMPROVEMENT DOV-5177:** imapc: COPY commands were sent one mail at a time to the remote IMAP server. Now the copying is buffered, so multiple mails can be copied with a single COPY command.
- **IMPROVEMENT DOV-5210:** Add `nfs_hostchange` plugin which optimizes index handling on host changes. See

[https://doc.dovecot.org/configuration\\_manual/plugins/nfs\\_hostchange\\_plugin/](https://doc.dovecot.org/configuration_manual/plugins/nfs_hostchange_plugin/).

- **ISSUE DOV-4990:** Submission server: Terminating the client connection with QUIT command after mail transaction is started with MAIL command and before it is finished with DATA/BDAT can cause a segfault crash.
- **ISSUE DOV-5052:** doveadm: imapc: Copying or moving mails with doveadm to an imapc mailbox could have produced "Error: Syncing mailbox '[...]' failed" Errors. The operation itself succeeded but attempting to sync the destination mailbox failed.
- **ISSUE DOV-5055:** doveadm search queries with mailbox-guid as the only parameter crashes.
  - *Fixes:* Panic: file virtual-search.c: line 77 (virtual\_search\_get\_records): assertion failed: (result != 0)
- **ISSUE DOV-5060:** indexer process was slowly leaking memory for each indexing request.
- **ISSUE DOV-5073:** Improve handling unexpected LDAP connection errors/hangs. Try to fix up these cases by reconnecting to the LDAP server and aborting LDAP requests earlier.
- **ISSUE DOV-5129:** mail\_crypt plugin crashes if it's loaded only for some users.
  - *Fixes:* Panic: Module context mail\_crypt\_user\_module missing.
- **ISSUE DOV-5129:** When LMTP was delivering mails to both recipients with mail encryption enabled and not enabled, the non-encrypted recipients may have gotten mails encrypted anyway. This happened when the first recipient was encrypted (mail\_crypt\_save\_version=2) and the 2nd recipient was not encrypted (mail\_crypt\_save\_version=0).
- **ISSUE DOV-5136:** Log prefix update may have been lost if log process was busy. This could have caused log prefixes to be empty or in some cases reused between sessions, i.e. log lines could have been logged for the wrong user/session. v2.3 regression.
- **ISSUE DOV-5152:** Director ring may have become unstable if a backend's tag was changed. It could also have caused director process to crash.
- **ISSUE DOV-5174:** Auth cache lookup would use incorrect cache key if passdb/userdb lookup changed the username, resulting in auth cache not working.
- **ISSUE DOV-5175:** dsync wrongly changed the BROKENCHAR to '\_' character when migrating mailboxes. This was set by default to %, so any mailbox names containing % characters were modified to "\_25". v2.3.14 regression.

- **ISSUE DOV-5180:** imapc: Prevent index log synchronization errors when two or more imapc sessions are adding messages to the same mailbox index files (i.e. `INDEX=MEMORY` is not used).
- **ISSUE DOV-5184:** “doveadm kick” would treat numeric parameter as an IP address.
- **ISSUE DOV-5232:** `oauth2: %{oauth2:name}` variables can cause useless introspection requests. v2.3.2 regression.
- **ISSUE DOV-5261:** `dovecot.index.log` files were often read and parsed entirely, rather than only the parts that were actually necessary. This mainly increased CPU usage.
- **ISSUE DOV-5263:** doveadm server could hang in some situations when printing output to TCP client (e.g. printing doveadm sync state).
- **ISSUE DOV-5264:** auth process crashed if userdb iteration was attempted while auth-workers were already full handling auth requests.

## 5.2. Object Storage (obox) Plug-in

No Changes

## 5.3. Full Text Search (fts-dovecot) Plug-in

- **IMPROVEMENT DOV-5064:** Optimized access to the index files when multiple search words or word stemming are involved.
- **ISSUE DOV-5311:** When using `fts-cache`, `fts_enforced=no|body`, and searching headers in a virtual folder without fully up-to-date indexes, an error is logged. v2.3.18 regression.
  - *Fixes:* `fts-dovecot: Unable to init file-cache: -2: FTS file-cache init failed: Failed to iterate FTS indexes: fs-fts-cache filesystem used for non-metacache fs (namespace prefix 'Virtual/')`.

## 5.4. Pigeonhole (sieve) Plug-in

No Changes

## 5.5. Intercept (intercept) Plug-in

No Changes

## **5.6. Virtual Attachments (virtual\_attachments) Plug-in**

No Changes

## **5.7. Unified Quota (unified\_quota) Plug-in**

No Changes

## **6. Tests**

The 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.

## **7. Repository Information**

For details of how to install and update OX Dovecot Pro, please refer to the instructions at:

[https://doc.dovecot.org/installation\\_guide/dovecot\\_pro\\_releases/repository\\_guide/](https://doc.dovecot.org/installation_guide/dovecot_pro_releases/repository_guide/).