

## Open-Xchange Security Advisory 2019-03-28

Product: Dovecot

Vendor: OX Software GmbH

Internal reference: DOV-2964 (Bug ID)

Vulnerability type: CWE-120

Vulnerable version: 2.0.14 - 2.3.5

Vulnerable component: fts, pop3-uidl-plugin

Report confidence: Confirmed

Researcher credits: Found in internal testing

Solution status: Fixed by Vendor

Fixed version: 2.3.5.1, 2.2.36.3

Vendor notification: 2019-02-05

Solution date: 2019-03-21

Public disclosure: 2019-03-28

CVE reference: CVE-2019-7524

CVSS: 3.0/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H/E:P/RL:O/RC:C (8.8)

### Vulnerability Details:

When reading FTS or POP3-UIDL header from dovecot index, the input buffer size is not bound, and data is copied to target structure causing stack overflow.

### Risk:

This can be used for local root privilege escalation or executing arbitrary code in dovecot process context. This requires ability to directly modify dovecot indexes.

### Steps to reproduce:

1. Produce dovecot.index.log entry that creates an FTS header which has more than 12 bytes of data.
2. Trigger dovecot indexer-worker or run doveadm index.
3. Dovecot will crash.

### Mitigations:

Since 2.3.0 dovecot has been compiled with stack smash protection, ASLR, read-only GOT tables and other techniques that make exploiting this bug much harder.

### Solution:

Operators should update to the latest Patch Release. The only workaround is to disable FTS and pop3-uidl plugin.