

Email fetcher: one.com ? Migadu migration

Email Fetcher Migration: one.com ? Migadu

MC Task: #100395

Migration Date: 2026-05-12 14:30-15:00 UTC

Verification: 12/12 atomic claims PASS (15:05 UTC)

Status: Production cutover complete

Overview

On 2026-05-10 20:20 UTC, the CEO registered Migadu email hosting and switched MX records for alai.no and basicconsulting.no to Migadu (priority 10/20), retaining one.com as fallback (priority 100). The email-agent daemon (~/.system/tools/email-agent.js) and mail-native.js IMAP client were still configured for one.com IMAP, making mail routed to Migadu invisible to John's email processing pipeline. On 2026-05-12, John executed the migration cutover: provisioned 4 new Migadu mailboxes via Admin API, rotated Bitwarden credentials, reconfigured himalaya CLI and mail-native.js to use imap.migadu.com:993 + smtp.migadu.com:465, and deployed a workaround for himalaya 1.1.0 PLAIN SASL incompatibility by forcing ImapFlow fallback (HIMALAYA_DISABLED=1 env var).

Affected Components

- **Config files:**

- ~/.config/himalaya/config.toml — 5 accounts (john, info, alai, alem, dev) migrated from imap.one.com to imap.migadu.com; folder aliases changed from INBOX.Sent to flat Sent
- ~/.system/tools/mail-native.js — VAULT_NAMES updated to Migadu - <addr> prefix; default imap_host/smtp_host changed to Migadu servers

- `~/Library/LaunchAgents/com.john.email-agent.plist` — added `HIMALAYA_DISABLED=1` environment variable
- **Bitwarden items:** 5 items created/updated with naming convention `Migadu - <email address>`
 - Migadu — `alem@alai.no`
 - Migadu — `john@alai.no`
 - Migadu — `john@basicconsulting.no`
 - Migadu — `info@basicconsulting.no`
 - Migadu — `dev@alai.no`
- **Daemons:**
 - `com.john.email-agent` — restarted after config changes; now connects to 6 mailboxes (5 Migadu + 1 Gmail)
- **Backups:**
 - `~/config/himalaya/config.toml.one-com-backup-20260512-163802`
 - `~/Library/LaunchAgents/com.john.email-agent.plist.bak-20260512-164711`
 - `mail-native.js`: revert via `git diff` against pre-migration commit

Migadu Mailbox Provisioning

Migadu mailboxes are created via Admin API using the API key from Bitwarden item `migadu key`.

Create mailbox via API

```
# Get Migadu API credentials
API_KEY=$(bw get password 'migadu key' --session $(cat /tmp/bw-session))
DOMAIN="alai.no" # or basicconsulting.no
LOCAL_PART="john"
PASSWORD=$(openssl rand -base64 24)

# Create mailbox
curl -X POST "https://api.migadu.com/v1/domains/${DOMAIN}/mailboxes" \
  -u "admin@alai.no:${API_KEY}" \
  -H "Content-Type: application/json" \
  -d '{
  "local_part": "'${LOCAL_PART}'",
  "password": "'${PASSWORD}'",
  "may_send": true,
  "may_receive": true,
  "may_access_imap": true,
  "may_access_pop3": true,
```

```
"may_access_managesieve": true
}'

# Verify creation
curl "https://api.migadu.com/v1/domains/${DOMAIN}/mailboxes/${LOCAL_PART}" \
-u "admin@alai.no:${API_KEY}"
```

Store credentials in Bitwarden

```
# Create Bitwarden item with naming convention
echo "{
  \"organizationId\": null,
  \"folderId\": null,
  \"type\": 1,
  \"name\": \"Migadu - ${LOCAL_PART}@${DOMAIN}\",
  \"login\": {
    \"username\": \"${LOCAL_PART}@${DOMAIN}\",
    \"password\": \"${PASSWORD}\",
    \"uris\": [
      { \"match\": null, \"uri\": \"imap.migadu.com\" },
      { \"match\": null, \"uri\": \"smtp.migadu.com\" }
    ]
  }
}" | bw encode | bw create item --session $(cat /tmp/bw-session)
```

Evidence: See `/Users/makinja/system/state/evidence/migadu-mailbox-create-20260512T083653Z.log` for actual execution output of 4 mailboxes created on 2026-05-12.

Bitwarden Credential Structure

Naming convention: `Migadu - <email address>`

This convention is hardcoded in `~/system/tools/mail-native.js` VAULT_NAMES mapping:

```
const VAULT_NAMES = {
  john: 'Migadu - john@basicconsulting.no',
  info: 'Migadu - info@basicconsulting.no',
  alai: 'Migadu - john@alai.no',
  alem: 'Migadu - alem@alai.no',
```

```
dev: 'Migadu - dev@alai.no',
gmail: 'Gmail - alembasic@gmail.com'
};
```

List all Migadu credentials:

```
bw list items --search 'Migadu -' --session $(cat /tmp/bw-session) | jq -r '.[ ] | "\(.name)
(\(.id))"'
```

End-to-End Verification

Use Python imaplib to verify IMAP login and mailbox access:

```
#!/usr/bin/env python3
import imaplib
import json
import subprocess

def test_imap(email):
    # Fetch password from Bitwarden
    vault_name = f"Migadu - {email}"
    bw_session = open('/tmp/bw-session').read().strip()
    password = subprocess.check_output(
        ['bw', 'get', 'password', vault_name, '--session', bw_session],
        text=True
    ).strip()

    # Connect to Migadu IMAP
    imap = imaplib.IMAP4_SSL('imap.migadu.com', 993)
    imap.login(email, password)
    status, messages = imap.select('INBOX')

    if status == 'OK':
        msg_count = int(messages[0])
        print(f"✓ {email}: INBOX OK, {msg_count} messages")
    else:
        print(f"✗ {email}: SELECT INBOX failed")

imap.logout()
```

```
if __name__ == '__main__':
    accounts = [
        'alem@alai.no',
        'john@alai.no',
        'john@basicconsulting.no',
        'info@basicconsulting.no',
        'dev@alai.no'
    ]
    for acc in accounts:
        test_imap(acc)
```

Expected output:

```
✓ alem@alai.no: INBOX OK, 881 messages
✓ john@alai.no: INBOX OK, 0 messages
✓ john@basicconsulting.no: INBOX OK, 13 messages
✓ info@basicconsulting.no: INBOX OK, 0 messages
✓ dev@alai.no: INBOX OK, 0 messages
```

Evidence: Verifier executed equivalent IMAP4_SSL login probes on 2026-05-12 15:05 UTC — claim C3 PASS (see </Users/makinja/system/state/evidence/mc-100395-verifier-verdict-20260512.md>).

Rollback Procedure

If Migadu migration must be reverted (e.g., service outage, credential issues), follow these steps:

1. Stop email-agent daemon:

```
launchctl unload ~/Library/LaunchAgents/com.john.email-agent.plist
```

2. Restore himalaya config to one.com:

```
cp ~/.config/himalaya/config.toml ~/.config/himalaya/config.toml.migadu-backup-$(date +%Y%m%d-%H%M%S)
cp ~/.config/himalaya/config.toml.one-com-backup-20260512-163802
~/.config/himalaya/config.toml
```

3. Revert mail-native.js (verify before running):

```
cd ~/system/tools
git diff mail-native.js # Review changes
```

```
git checkout HEAD -- mail-native.js # Revert to pre-migration state
```

4. Remove HIMALAYA_DISABLED from LaunchAgent:

```
cp ~/Library/LaunchAgents/com.john.email-agent.plist
~/Library/LaunchAgents/com.john.email-agent.plist.bak-$(date +%Y%m%d-%H%M%S)
# Edit plist to remove HIMALAYA_DISABLED env var:
plutil -replace EnvironmentVariables.HIMALAYA_DISABLED -string ""
~/Library/LaunchAgents/com.john.email-agent.plist
# Or manually edit and remove the key/value pair
```

5. Update Bitwarden vault names in code (if needed):

If mail-native.js git revert doesn't restore old BW item names, manually edit VAULT_NAMES back to `Email - <addr>` pattern.

6. Restart daemon:

```
launchctl load ~/Library/LaunchAgents/com.john.email-agent.plist
```

7. Verify connection to one.com:

```
tail -f ~/system/logs/email-agent.log | grep -E "Connected|ERROR"
```

Expect lines like: `Connected to john (john@basicconsulting.no)` within 60 seconds.

Rollback time estimate: 5-10 minutes (assuming backups are intact).

Known Issue: himalaya 1.1.0 PLAIN SASL vs Migadu

Symptom: himalaya CLI 1.1.0 fails IMAP login to imap.migadu.com:993 with error:

```
Error: cannot parse envelope at line 1 near column 1
Kind: MalformedMessage
```

Root cause: himalaya 1.1.0 attempts PLAIN SASL authentication, which Migadu's IMAP server rejects or mishandles (verify before re-running). This is a known incompatibility between himalaya's IMAP library and Migadu's Dovecot configuration.

Workaround: Force email-agent.js to skip himalaya and use ImapFlow (native Node.js IMAP client) by setting environment variable:

```
<key>EnvironmentVariables</key>
<dict>
```

```
<key>HIMALAYA_DISABLED</key>
<string>1</string>
</dict>
```

in `~/Library/LaunchAgents/com.john.email-agent.plist`.

Evidence: Email-agent.js log on 2026-05-12 14:48:12 shows:

```
{"timestamp": "2026-05-12T14:48:12.896Z", "service": "email-agent", "level": "info", "message": "[WARN] himalaya disabled for john, falling back to legacy unseen fetch"}
```

All 6 mailboxes connected successfully via ImapFlow (claims C9/C10 PASS).

Long-term fix: File upstream issue with himalaya maintainers or test downgrade to himalaya 1.0.x. Track in separate MC task.

Migration Timeline

Timestamp (UTC)	Event
2026-05-10 20:20	CEO registered Migadu, MX records switched
2026-05-12 08:36	4 mailboxes provisioned via Migadu API (post, dev, info, john@basicconsulting)
2026-05-12 14:37	john@alai.no mailbox created
2026-05-12 14:48	email-agent cutover: himalaya disabled, ImapFlow connected to 5 Migadu + 1 Gmail
2026-05-12 14:51	First mail cycle after cutover: 3 new emails classified via Ollama
2026-05-12 15:05	Verifier subagent: 12/12 claims PASS

Post-Migration State

- **MX records:** aspmx1/2.migadu.com (priority 10/20) PRIMARY, mx01.one.com (priority 100) FALLBACK
- **Active mailboxes:** 5 Migadu (alem, johnx2, info, dev) + 1 Gmail (alembasic)
- **Daemon status:** com.john.email-agent running, last exit 0, connects every 3 minutes
- **Mail processing:** End-to-end verified — GitHub PR notification, GCP billing, undeliverable bounce all classified via Ollama (claim C11 PASS)

- **one.com mailboxes:** Still receiving via fallback MX prio 100 — backlog drain deferred to future MC task

References

- **MC Task:** #100395
 - **Evidence directory:** `/Users/makinja/system/state/evidence/`
 - `mc-100395-verifier-verdict-20260512.md` — 12/12 atomic claims PASS
 - `mc-100395-migration-complete-20260512T145224Z.log` — Builder summary
 - `migadu-mailbox-create-20260512T083653Z.log` — API provisioning logs
 - `email-agent-migadu-cutover-20260512T145138Z.log` — Daemon cutover logs
 - **Bitwarden API key:** `migadu key` (search in BW vault)
 - **Migadu Admin API:** <https://api.migadu.com/v1/>
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Revision #2

Created 2026-05-12 15:09:16 UTC by John

Updated 2026-06-14 20:03:10 UTC by John