

03-karakeep.md

kstack: book: Centerpoint Home
Lab chapter: Documents &
Organization page: Karakeep tags:
[karakeep, bookmarks, read-later,
productivity]

Overview

Karakeep is a self-hosted bookmark manager and read-it-later service. It crawls saved URLs for their full text and screenshots, indexes them via Meilisearch, and supports OCR on images (`ocr_langs=eng`). Video download is enabled (yt-dlp backend, no size limit). SMTP is configured for email-to-save via Gmail. New signups are disabled — account management is manual.

Access

Type	URL	Auth
External	<code>https://bookmark.jeevesconsults.ca</code>	GeoBlock + CrowdSec (own auth)

External-only — no internal `home.local` route configured.

Configuration

Image: `ghcr.io/karakeep-app/karakeep:latest`

Key Environment Variables

Variable	Value / Notes
<code>NEXTAUTH_URL</code>	<code>https://bookmark.jeevesconsults.ca</code>
<code>NEXTAUTH_URL_INTERNAL</code>	<code>http://karakeep-web:3000</code>
<code>NEXTAUTH_TRUST_HOST</code>	<code>true</code>
<code>NEXTAUTH_SECRET</code>	REDACTED
<code>DATA_DIR</code>	<code>/data</code>
<code>ASSETS_DIR</code>	<code>/assets</code>
<code>MEILI_ADDR</code>	<code>http://meilisearch:7700</code>
<code>MEILI_MASTER_KEY</code>	REDACTED
<code>BROWSER_WEB_URL</code>	<code>http://chrome:9222</code> (headless Chromium)
<code>OCR_LANGS</code>	<code>eng</code>
<code>OCR_CONFIDENCE_THRESHOLD</code>	<code>75</code>
<code>CRAWLER_VIDEO_DOWNLOAD</code>	<code>true</code>
<code>CRAWLER_VIDEO_DOWNLOAD_MAX_SIZE</code>	<code>-1</code> (unlimited)
<code>CRAWLER_VIDEO_DOWNLOAD_TIMEOUT_SEC</code>	<code>7200</code>
<code>INFERENCE_ENABLE_AUTO_SUMMARIZATION</code>	<code>true</code>
<code>MAX_ASSET_SIZE_MB</code>	<code>50</code>
<code>DISABLE_SIGNUPS</code>	<code>true</code>
<code>EMAIL_VERIFICATION_REQUIRED</code>	<code>false</code>
<code>SMTP_HOST</code>	<code>smtp.gmail.com</code>
<code>SMTP_PORT</code>	<code>587</code>
<code>SMTP_SECURE</code>	<code>true</code>
<code>SMTP_USER</code>	<code>jeeves5454@gmail.com</code>
<code>SMTP_FROM</code>	<code>jeeves5454@gmail.com</code>
<code>SMTP_PASSWORD</code>	REDACTED

Traefik Labels

```
traefik.http.routers.karakeep.rule: Host(`bookmark.jeevesconsults.ca`)
traefik.http.routers.karakeep.entrypoints: websecure
```

```
traefik.http.routers.karakeep.tls.certresolver: letsencrypt
traefik.http.routers.karakeep.middlewares: plex-geoblock@file,crowdsec-bouncer@file,karakeep-headers
traefik.http.middlewares.karakeep-headers.headers.customrequestheaders.X-Forwarded-Proto: https
traefik.http.services.karakeep.loadbalancer.server.port: 3000
```

Volumes / Bind Mounts

Host Path	Container Path	Purpose
/home/jeeves/docker/karakeep/data	/data	Database and app data
/mnt/data/karakeep	/assets	Saved assets (screenshots, videos)

Stack Companions

Karakeep requires additional sidecar containers (Meilisearch, Headless Chrome) in the same compose network to function. These are not independently accessible.

Notes / Gotchas

- The `X-Forwarded-Proto: https` middleware is required for Karakeep (Next.js) to trust the proxy and generate correct redirect URIs — without it, HTTPS callbacks will fail.
- Video downloads can consume significant storage on `/mnt/data/karakeep`. The timeout is 2 hours, which accommodates long-form content.
- Meilisearch index data is stored in `/data` — this must be backed up alongside the app database for search to remain functional after a restore.
- `DISABLE_SIGNUPS: true` — new accounts must be created manually in the admin UI.

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