

05-booklore.md

kstack: book: Centerpoint Home
Lab chapter: Documents &
Organization page: Booklore tags:
[booklore, books, library, mariadb,
step-ca]

Overview

Booklore is a personal e-book library manager. It indexes books from the NFS Multimedia share (read-only) and a local bookdrop directory for new additions. The app is a Java/Spring Boot application (JDK 25 with Shenandoah GC) backed by MariaDB. It uses its own internal authentication — no Authentik ForwardAuth or OIDC. The Step-CA root certificate is bind-mounted into the system trust store to allow Booklore to make HTTPS calls to internal `*.home.local` services.

Access

Type	URL	Auth
External	<code>https://booklore.jeevesconsults.ca</code>	GeoBlock + CrowdSec (own auth)
Internal	<code>https://booklore.home.local</code>	Own auth (Step-CA TLS)

Containers

Container	Image	Role
booklore	grimmory/grimmory:latest	Web application
booklore-db	lscr.io/linuxserver/mariadb:latest	MariaDB database

booklore (application)

Key environment variables:

Variable	Value / Notes
DATABASE_USERNAME	booklore
DATABASE_PASSWORD	REDACTED
DATABASE_URL	jdbc:mariadb://booklore-db:3306/booklore
BOOKLORE_PORT	6060
DISK_TYPE	NETWORK (books from NFS mount)
USER_ID / GROUP_ID	1000
TZ	America/Toronto
APP_VERSION	v3.2.0

Runtime: Java 25 (Temurin JDK 25.0.3) with Shenandoah GC.
JVM tuning: max 60% RAM, Shenandoah compact heuristics, 256MB metaspace cap.

Bind mounts:

Host Path	Container Path	Purpose
/mnt/Multimedia/Books	/books	Book library (read-only via NFS)
/home/jeeves/docker/booklore/data	/app/data	App state and metadata
/home/jeeves/docker/booklore/bookdrop	/bookdrop	Drop zone for new books
/home/jeeves/docker/step-ca/config/certs/root_ca.crt	/usr/local/share/ca-certificates/step-ca.crt	Step-CA root trust injection

booklore-db (MariaDB LSIO)

Image: lscr.io/linuxserver/mariadb:latest

Variable	Value
MYSQL_DATABASE	booklore
MYSQL_USER	booklore

Variable	Value
<code>MYSQL_PASSWORD</code>	REDACTED
<code>PUID</code> / <code>PGID</code>	<code>1000</code>

Bind mounts:

Host Path	Container Path
<code>/home/jeeves/docker/booklore/mariadb</code>	<code>/config</code>

Traefik Labels

```
traefik.http.routers.booklore-external.rule: Host(`booklore.jeevesconsults.ca`)
traefik.http.routers.booklore-external.entrypoints: websecure
traefik.http.routers.booklore-external.tls.certresolver: letsencrypt
traefik.http.routers.booklore-external.middlewares: plex-geoblock@file,crowdsec-bouncer@file
traefik.http.routers.booklore-external.service: booklore-svc

traefik.http.routers.booklore-internal.rule: Host(`booklore.home.local`)
traefik.http.routers.booklore-internal.entrypoints: websecure
traefik.http.routers.booklore-internal.tls.certresolver: step-ca
traefik.http.routers.booklore-internal.service: booklore-svc

traefik.http.services.booklore-svc.loadbalancer.server.port: 6060
```

Notes / Gotchas

- The Step-CA root certificate bind mount (`root_ca.crt` → `/usr/local/share/ca-certificates/`) makes the container's Java runtime trust internal TLS certificates. This is required if Booklore makes any HTTPS requests to `*.home.local` services.
- `/mnt/Multimedia/Books` is the NFS share from UnRAID — it must be mounted before Booklore starts or the library scan will fail silently. Check `df -h /mnt/Multimedia` if the library appears empty.
- Drop new e-books (EPUB, PDF) into `/home/jeeves/docker/booklore/bookdrop` for automatic library import.
- `grimmory/grimmory:latest` is the container image name for the Booklore project.

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