

03-ghostfolio.md

kstack: book: Centerpoint Home
Lab chapter: Finance page:
Ghostfolio tags: [ghostfolio,
investments, portfolio, finance,
postgres, redis]

Overview

Ghostfolio is an open-source wealth management and investment portfolio tracker. It aggregates holdings across accounts, tracks performance, and visualises asset allocation. Internal-only access via Step-CA TLS — no external route is configured. Ghostfolio manages its own user authentication. The stack is three containers: the application, a PostgreSQL 15 database, and Redis for caching.

Access

Type	URL	Auth
Internal	<code>https://ghostfolio.home.local</code>	Ghostfolio own auth (Step-CA TLS)

No external route — accessible only on the LAN.

Containers

Container	Image	Role
ghostfolio	ghostfolio/ghostfolio:latest	Web application
ghostfolio-postgres	postgres:15-alpine	PostgreSQL 15 database
ghostfolio-redis	redis:alpine	Cache and session store

ghostfolio (application)

Runtime: Node.js 22

Key environment variables:

Variable	Value / Notes
DATABASE_URL	REDACTED (PostgreSQL connection string with password)
REDIS_HOST	ghostfolio-redis
REDIS_PORT	6379
ACCESS_TOKEN_SALT	REDACTED
JWT_SECRET_KEY	REDACTED
NODE_ENV	production
TZ	America/Toronto

No bind mounts — application state is stored entirely in PostgreSQL.

ghostfolio-postgres (PostgreSQL 15)

Image: postgres:15-alpine

Variable	Value
POSTGRES_DB	ghostfoliodb
POSTGRES_USER	ghostfoliouser
POSTGRES_PASSWORD	REDACTED
TZ	America/Toronto

Bind mounts:

Host Path	Container Path
/home/jeeves/docker/ghostfolio/postgres_data	/var/lib/postgresql/data

ghostfolio-redis

Image: `redis:alpine`

No authentication configured — network-isolated to the Ghostfolio internal stack network.

Bind mounts:

Host Path	Container Path
<code>/home/jeeves/docker/ghostfolio/redis_data</code>	<code>/data</code>

Traefik Labels

```
traefik.http.routers.ghostfolio.rule: Host(`ghostfolio.home.local`)
traefik.http.routers.ghostfolio.entrypoints: websecure
traefik.http.routers.ghostfolio.tls.certresolver: step-ca
traefik.http.services.ghostfolio.loadbalancer.server.port: 3333
```

Notes / Gotchas

- `ACCESS_TOKEN_SALT` and `JWT_SECRET_KEY` are critical secrets. If lost, all existing sessions and API tokens will be invalidated and cannot be recovered without reconfiguring Ghostfolio.
- Ghostfolio fetches market data from various external providers (Yahoo Finance, Coingecko, etc.). Market data API rate limits may apply depending on configured data sources.
- Portfolio data import supports CSV and JSON formats compatible with common brokerages. Check the Ghostfolio docs for the required format.
- Redis stores only ephemeral cache — data is not critical and does not need to be backed up. The `postgres_data` bind mount is the primary backup target.
- Port 3333 is the default Ghostfolio application port.

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