

02-splitpro.md

kstack: book: Centerpoint Home

Lab chapter: Finance page:

SplitPro tags: [splitpro, expenses, splitting, authentik, postgres, step-ca]

Overview

SplitPro is a self-hosted shared expense splitting app — an open-source alternative to Splitwise. It tracks group expenses, calculates balances, and supports multi-currency via the Frankfurter exchange rate provider. Authentik OIDC provides authentication. Email invites are handled via Gmail SMTP. The Step-CA root certificate is injected so SplitPro can make HTTPS calls to internal `*.home.local` services. External-only route.

Access

Type	URL	Auth
External	<code>https://splitpro.jeevesconsults.ca</code>	Authentik OIDC + GeoBlock + CrowdSec

SplitPro handles its own OIDC redirect to Authentik — Traefik does not apply `authentik-auth@docker` ForwardAuth. Authentication is managed natively by the Next.js `next-auth` library.

Containers

Container	Image	Role
splitpro	ossapps/splitpro:latest	Web application
splitpro-db	ossapps/postgres:17.7-trixie	PostgreSQL 17 database

splitpro (application)

Runtime: Node.js 22 (Next.js)

Key environment variables:

Variable	Value / Notes
NEXTAUTH_URL	https://splitpro.jeevesconsults.ca
NEXTAUTH_SECRET	REDACTED
AUTHENTIK_ID	xA8pjyG7s4LsnmRKp9Wn9H9v8oUpawBAMvmEF9tT
AUTHENTIK_SECRET	REDACTED
AUTHENTIK_ISSUER	https://auth.jeevesconsults.ca/application/o/splitpro
OIDC_ALLOW_DANGEROUS_EMAIL_LINKING	1
DATABASE_URL	REDACTED (includes PostgreSQL password)
POSTGRES_USER	splitpro
POSTGRES_DB	splitpro
POSTGRES_PORT	5432
EMAIL_SERVER_HOST	smtp.gmail.com
EMAIL_SERVER_PORT	587
EMAIL_SERVER_USER	jeeves5454@gmail.com
EMAIL_SERVER_PASSWORD	REDACTED
FROM_EMAIL	splitpro@jeevesconsults.ca
ENABLE_SENDING_INVITES	true
DISABLE_EMAIL_SIGNUP	false
CURRENCY_RATE_PROVIDER	frankfurter
DEFAULT_HOMEPAGE	/balances
CACHE_RETENTION_INTERVAL	2 days
CLEAR_CACHE_CRON_RULE	0 2 * * 0 (Sunday 2am)
UPLOAD_MAX_FILE_SIZE_MB	10

Variable	Value / Notes
NODE_EXTRA_CA_CERTS	/etc/ssl/certs/step-ca-root.crt
PORT	3000

Bind mounts:

Host Path	Container Path	Purpose
/home/jeeves/docker/splitpro/uploads	/app/uploads	Receipt and document uploads
/home/jeeves/docker/step-ca/config/certs/root_ca.crt	/etc/ssl/certs/step-ca-root.crt	Step-CA root trust injection

splitpro-db (PostgreSQL 17)

Image: `ossapps/postgres:17.7-trixie`

A PostgreSQL 17 image published by the SplitPro project (based on the official `postgres:17` Debian image).

Variable	Value
POSTGRES_USER	splitpro
POSTGRES_DB	splitpro
POSTGRES_PASSWORD	REDACTED
POSTGRES_PORT	5432

Bind mounts:

Host Path	Container Path
/home/jeeves/docker/splitpro/db	/var/lib/postgresql/data

Traefik Labels

```
traefik.http.routers.splitpro-external.rule: Host(`splitpro.jeevesconsults.ca`)
traefik.http.routers.splitpro-external.entrypoints: websecure
traefik.http.routers.splitpro-external.tls.certresolver: letsencrypt
traefik.http.routers.splitpro-external.middlewares: plex-geoblock@file,crowdsec-bouncer@file
traefik.http.routers.splitpro-external.service: splitpro-svc
traefik.http.services.splitpro-svc.loadbalancer.server.port: 3000
```

Notes / Gotchas

- `OIDC_ALLOW_DANGEROUS_EMAIL_LINKING: 1` allows Authentik OIDC logins to link to existing accounts by matching email address. Required if users were created before OIDC was enabled, or if local signup is still active.
- `NODE_EXTRA_CA_CERTS` injects the Step-CA root certificate into Node.js' TLS trust chain. This is required if SplitPro makes any HTTPS calls to internal `*.home.local` endpoints (e.g., if integrated with other internal services).
- `DATABASE_URL` in the container environment contains the PostgreSQL password in plaintext — treat this as sensitive.
- Currency rates are fetched from `api.frankfurter.app` (public, no API key required).

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