

07-convertx.md

kstack: book: Centerpoint Home
Lab chapter: Utilities page:
ConvertX tags: [convertx, file-
conversion, utilities]

Overview

ConvertX is a self-hosted file format conversion tool. It supports converting between video, audio, image, document, and other file formats using a web interface. Internal-only access. Account registration is enabled, allowing any LAN user to create an account.

Access

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

Configuration

Image: `ghcr.io/c4illin/convertx`

Environment Variables

Variable	Value	Purpose
HTTP_ALLOWED	true	Allows HTTP connections (Traefik terminates TLS)
ACCOUNT_REGISTRATION	true	Any LAN user can self-register
QTWEBENGINE_CHROMIUM_FLAGS	--no-sandbox	Required for headless Chromium in container

Traefik Labels

```
traefik.http.routers.convertx.rule: Host(`convertx.home.local`)
traefik.http.routers.convertx.entrypoints: websecure
traefik.http.routers.convertx.tls.certresolver: step-ca
traefik.http.services.convertx.loadbalancer.server.port: 3000
```

Volumes / Bind Mounts

Host Path	Container Path	Purpose
/data/compose/43/data	/app/data	App data and SQLite

“ The data directory is a Portainer-managed compose path (/data/compose/<stack-id>/data) — this stack is managed entirely via Portainer with no local compose file. The path is determined by the Portainer stack ID (43).

Notes / Gotchas

- ACCOUNT_REGISTRATION=true allows any user on the LAN to self-register. Disable this if access should be restricted to a single admin account.
- Converted files are stored temporarily in the app data directory and deleted after download. Do not use this path for long-term storage.
- no-sandbox is a Chromium security flag required when running in a container (no user namespace isolation). This is standard for containerised headless browser setups.
- ConvertX uses FFmpeg, ImageMagick, and other converters internally — available formats depend on the image build.

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