

Open-WebUI

Overview

Open Web UI is the primary chat and AI management interface for the homelab. It provides a ChatGPT-style web frontend connected to the local Ollama backend, with support for conversation history, model selection, RAG (document chat), image generation, and tool use. It can also proxy to external OpenAI-compatible APIs.

Access

Type	URL	Notes
Internal	<code>https://ai.home.local</code>	LAN access via Step-CA TLS
External	<code>https://ai.jeeves5454.ddns.net</code>	Internet-facing — Authentik SSO + GeoBlock + CrowdSec

Configuration

Image: `ghcr.io/open-webui/open-webui:main` **Compose project:** `ai-stack`

Ports

Port	Protocol	Purpose
<code>3015</code>	TCP	Web UI (mapped from internal <code>8080</code>)

Traefik Labels

```
# Internal route
traefik.http.routers.openwebui-internal.rule: Host(`ai.home.local`)
```

```

traefik.http.routers.openwebui-internal.entrypoints: websecure
traefik.http.routers.openwebui-internal.tls.certresolver: step-ca
traefik.http.routers.openwebui-internal.service: openwebui-svc

# External route
traefik.http.routers.openwebui-external.rule: Host(`ai.jeeves5454.ddns.net`)
traefik.http.routers.openwebui-external.entrypoints: websecure
traefik.http.routers.openwebui-external.tls.certresolver: letsencrypt
traefik.http.routers.openwebui-external.middlewares: authentik-auth@docker,plex-geoblock@file,crowdsec-bouncer@file
traefik.http.routers.openwebui-external.service: openwebui-svc

traefik.http.services.openwebui-svc.loadbalancer.server.port: 8080

```

Environment Variables

Variable	Value / Notes
WEBUI_AUTH	False — authentication handled by Authentik
ENABLE_OLLAMA_API	True
ENABLE_OPENAI_API	True
ENABLE_IMAGE_GENERATION	True
IMAGE_GENERATION_ENGINE	automatic1111
IMAGE_GENERATION_MODEL	dreamshaper_8
IMAGE_SIZE	400x400
IMAGE_STEPS	8
AUTOMATIC1111_BASE_URL	http://stable-diffusion:7860/
AUTOMATIC1111_CFG_SCALE	2
AUTOMATIC1111_SAMPLER	DPM++ SDE
AUTOMATIC1111_SCHEDULER	Karras

“ WEBUI_AUTH=False disables Open Web UI's own login page. Authentication is delegated entirely to Authentik ForwardAuth on the external route. On the internal LAN route, the interface is open — access is controlled by network boundary only.

Volumes / Bind Mounts

Host Path / Volume	Container Path	Purpose
open_webui_open-webui-data	/app/backend/data	Conversation history, settings, uploaded docs (named volume, external)

Networks

Network	Purpose
ai-stack_ai-internal	Reaches Ollama backend on ai-internal network
traefik-net	Exposes the web UI via Traefik

Dependencies

- ollama — must be running for model inference; Open Web UI will start without it but model requests will fail
- Authentik — required for external route SSO; LAN route is unaffected if Authentik is down

Notes / Gotchas

- The main image tag tracks the latest development build. For stability, consider pinning to a tagged release (e.g. v0.6.x).
- WEBUI_AUTH=False means anyone on the LAN can access the internal URL without credentials. If untrusted devices are on the LAN, consider enabling WEBUI_AUTH and creating user accounts, or adding Authentik middleware to the internal route as well.
- Conversation history and user settings are stored in the named Docker volume. Back this up before upgrades.
- Open Web UI admin panel is at https://ai.home.local/admin/ — first user to register (if auth is enabled) becomes the admin.
- Image generation requires the stable-diffusion container to be running (separate service, also on ai-internal network).

Revision #3

Created 2026-06-17 04:43:11 UTC by Admin

Updated 2026-06-17 13:42:21 UTC by Admin