

FAULTLINE

WRITE-VALIDATED KNOWLEDGE-GRAPH MEMORY – PER-TENANT, PRIVATE, MODEL-AGNOSTIC

GUIDE 2 / 4 • OPENWEBUI

Connecting OpenWebUI

OpenWebUI is wired to FaultLine **once, at the server level**, with an account connection key (`flk_`). After that, **every signed-in user becomes a seat automatically** – no per-user setup. OpenWebUI stamps each user's id (`X-OpenWebUI-User-Id`) so calls are scoped to that user's private memory.

BEFORE YOU START

Have your **endpoint** and an **account connection key** (`flk_`) from Guide 1. You need OpenWebUI **admin** rights (this is an org-wide wiring).

Steps

- 1 **Sign in to OpenWebUI as an admin/operator.** This tool is added once for the whole instance.
- 2 **Open Settings → Tools** and add an OpenAPI / MCP tool server.
- 3 **URL:** paste your endpoint with the `/mcp` path, e.g. `<YOUR_ENDPOINT>/mcp`. (The same server also exposes REST shorthand routes – `/recall_memory`, `/remember_facts`, `/learn_facts`, `/retract_fact` – OpenWebUI reads the tool descriptions from the server automatically.)
- 4 **Auth:** set the Bearer token / API key field to your `flk_` connection key.
- 5 **Save.** OpenWebUI now advertises FaultLine's tools (`recall_memory`, `remember_facts`, `learn_facts`, `retract_fact`) to your models.
- 6 **Enable the tool on a model / chat.** Turn the Faultline tool ON for the model you chat with, using **default function-calling** (not Native tool mode – Native has been observed to break storage and recall only). Then just talk to it.

Config shape (server-level)

If your OpenWebUI accepts a JSON MCP-server block, it takes the account key as the Bearer – no per-user header, because OpenWebUI adds each user's id itself:

```
// wired ONCE at the server level; users auto-appear as seats
{
  "mcpServers": {
    "faultline": {
      "url": "<YOUR_ENDPOINT>/mcp",
      "headers": {
        "Authorization": "Bearer <YOUR_CONNECTION_KEY>"
      }
    }
  }
}
```

Replace `<YOUR_ENDPOINT>` and `<YOUR_CONNECTION_KEY>` with the endpoint and `flk_` key copied from your console (Guide 1). Copy the key now – it is shown once.

VERIFY IT WORKED

Tell the assistant a simple fact ("my favourite colour is blue"), then in a new turn ask "what's my favourite colour?". It should recall it. In OpenWebUI you can confirm the tool actually fired via the tool-call trace / server logs – not by the model's prose alone.

TROUBLESHOOTING

- **Empty recall on a brand-new account is normal** – there is nothing stored yet.

- If recall is **wrong-scoped or blank** for a specific user, the per-user id header isn't reaching Faultline – confirm OpenWebUI is stamping `X-OpenWebUI-User-Id` (it does by default for signed-in users).
- **401 / unauthorized** → the key is wrong, revoked, or rotated; mint a fresh `flk_` key and re-paste it.
- **Writes rejected but reads work** → the seat is in *serve* (read-only) mode; flip train/serve on the seat.

Prereq: **Guide 1** (key & access). Individuals on their own seat: use **Guide 3/4** with a `flu_` token.

Faultline connection guide · the console links to this file · your endpoint and keys are shown in your Faultline console – never invent them.