Self-Hosted Offline Server Setup Guide

Written by Adity, July 20, 2025

1. Kiwix Server (Offline Wikipedia/Encyclopedia)

- Download the Kiwix server from: https://kiwix.org/en/applications/

- Then download `.zim` files (content files) from: https://library.kiwix.org/#lang=eng

2. Jellyfin (Media Server: Movies/TV Shows)

- Download Jellyfin from: https://jellyfin.org/

- Set it up and add your media library.

3. LibreTranslate (Offline Translation Server)

- Install via CMD:

  pip install libretranslate

  (Requires Python. I used Python 10.3, 64-bit)

- Test using CMD:

  libretranslate --load-only en,es,fr

- For all languages, use `Translate server.exe` or `LibreTranslate Service Start (8081).bat`

4. Navidrome (Music Server)

- Download from: https://www.navidrome.org/docs/installation/

- It auto-detects music in your Windows 'Music' folder.

- For metadata editing, use Mp3tag or MusicBrainz Picard.

5. Komga (Comic Reader Server)

- Download from: https://komga.org/docs/installation/desktop

- Set it up and add `.cbz` files.

6. Ollama + Qwen Chat UI (Local ChatGPT-like AI)

- Download Ollama: https://ollama.com/

- For low-end systems, use: https://ollama.com/library/qwen2.5:0.5b

- Or run: ollama run qwen2.5:0.5b

- For a good web UI, use `chatbot.exe`.

7. Technitium DNS Server (For LAN Domain Mapping)

- Download: https://github.com/TechnitiumSoftware/DnsServer

- Steps: Zone → Add Zone (e.g., lan) → Add Record (e.g., kiwix mapped to your service IP)

8. NGINX (Web Server/Reverse Proxy)

- Download: https://nginx.org/en/download.html

- Configure `nginx.conf` or use mine

- Reload config with: nginx -s reload (run from the NGINX folder)

9. Sunshine + Moonlight (Remote Access)

- Download Sunshine: https://github.com/moonlight-stream/moonlight-qt/releases

- Download Moonlight (client) from: https://f-droid.org/packages/com.limelight/

10. MiniSIPServer + Linphone (Calling/VoIP)

- Download MiniSIPServer: https://www.myvoipapp.com/download/index.html

- SIP Extensions Used: 1001–1005

- Client: Linphone from https://www.linphone.org/en/getting-started/

System Notes & Performance

- CPU: Intel i3-2120 (2nd Gen)

- RAM: 12GB DDR3 1333 MHz

- OS: Windows 10, Version 22H2 (OS Build 19045.6093)

- RAM Usage: ~5.6 to 6.6 GB

- Runs comfortably on 8GB RAM

Features and Tools Used

Wiki/Encyclopedia: Kiwix Server + ZIM Files

Movies/TV: Jellyfin

Comics: Komga

Music: Navidrome

Translation: LibreTranslate

Calling/Texting: MiniSIPServer + Linphone

File Sharing: Your GUI FTP/HTTP Server

Voice Chat: Mumble

ChatGPT Alt: Qwen (Msty UI / Open WebUI)

Remote Access: Sunshine + Moonlight

DNS/Web: Technitium + NGINX

Search Engine: YaCy (Offline Google)