Open WebUI Management Guide

System Overview

Installation Location: D:\Misc\Python311\ **Service Name:** OpenWebUI2 **Web Interface:** https://chat.ldmathes.cc **Local Access:** http://localhost:8080

Service Management Commands

Check Service Status

```
cmd

d:\Misc\nssm.exe status OpenWebUI2
```

Stop Service

```
cmd

d:\Misc\nssm.exe stop OpenWebUI2
```

Start Service

```
cmd

d:\Misc\nssm.exe start OpenWebUI2
```

Restart Service

```
cmd

d:\Misc\nssm.exe restart OpenWebUI2
```

Troubleshooting

Check if Open WebUI is Running

```
cmd

netstat -ano | findstr :8080
```

View Error Logs

```
cmd

type D:\Misc\openwebui-stderr.log
```

View Standard Output Logs

```
cmd

type D:\Misc\openwebui-stdout.log
```

Manual Start (for testing)

```
cmd

set OLLAMA_BASE_URL=http://localhost:11434
D:\Misc\Python311\Scripts\open-webui.exe serve --host 0.0.0.0 --port 8080
```

Updating Open WebUI

When a new version is released:

```
cmd

# Stop the service
d:\Misc\nssm.exe stop OpenWebUI2

# Update Open WebUI
py -3.11 -m pip install --upgrade open-webui

# Start the service
d:\Misc\nssm.exe start OpenWebUI2
```

Open WebUI Features

Admin Panel

- Click your profile icon → **Admin Panel**

- Manage users and permissions

- Configure model settings

- Set default models for new chats

- View usage statistics

Model Selection

- Located at top of chat interface

- Switch between available Ollama models

- Can select multiple models simultaneously to compare responses

Document Upload

- Click the paperclip icon in chat

- Upload PDFs, text files, Word docs

- RAG (Retrieval Augmented Generation) allows chatting about document contents

- Supports multiple file formats

Conversation History

- Automatically saved in sidebar

- Searchable by content

- Can be exported or deleted

- Organize with folders/tags

Additional Features

- **Web Search:** Enable in settings for real-time information

- **Image Generation:** If you have image models installed

- **Voice Input:** Browser-based speech recognition

- **Code Execution:** Run code snippets directly in chat

- **Custom Prompts:** Save frequently used prompts

Performance Tips

- **First Response Delay:** Initial responses may be slow as models load into memory

- **Subsequent Responses:** Once loaded, responses are fast

- **New Models:** Models added to Ollama appear automatically in Open WebUI

- **Memory Usage:** Keep an eye on RAM usage with larger models

- **Concurrent Users:** Multiple users can access simultaneously

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Architecture

Components

1. **Ollama Server** (localhost:11434) - Runs the AI models

2. **Open WebUI** (localhost:8080) - Web interface

3. **Cloudflare Tunnel** - Secure remote access

4. **NSSM Service** - Runs Open WebUI as Windows service

Data Flow

```
User Device → https://chat.ldmathes.cc
  → Cloudflare
  → Cloudflare Tunnel
  → localhost:8080 (Open WebUI)
  → localhost:11434 (Ollama)
```

Configuration Files

Cloudflare Tunnel Config

Location: `C:\Users\DrDen\.cloudflared\config.yml`

Open WebUI Data

Location: User data stored in Open WebUI's database (check admin panel for exact path)

Environment Variables

- `OLLAMA_BASE_URL=http://localhost:11434`

Common Issues & Solutions

502 Bad Gateway Error

- Check if Open WebUI service is running: `d:\Misc\nssm.exe status OpenWebUI2`

- Check if port 8080 is available: `netstat -ano | findstr :8080`

- Restart service: `d:\Misc\nssm.exe restart OpenWebUI2`

Models Not Appearing

- Verify Ollama is running: `curl http://localhost:11434/api/tags`

- Check OLLAMA_BASE_URL environment variable

- Restart Open WebUI service

Can't Access Remotely

- Verify Cloudflare tunnel is running: `tasklist | findstr cloudflared`

- Check DNS record exists for chat.ldmathes.cc

- Verify ingress rule in Cloudflare config

Service Won't Start

- Check logs: `type D:\Misc\openwebui-stderr.log`

- Verify Python 3.11 is installed at `D:\Misc\Python311\`

- Try manual start to see detailed errors

Security Considerations

- First user created becomes admin

- Enable authentication in settings

- Consider limiting user registrations

- Keep Open WebUI updated for security patches

- Cloudflare provides DDoS protection and SSL

Backup Recommendations

Database Location

For your Python 3.11 installation, the database is located at: **`D:\Misc\Python311\Lib\site-packages\open_webui\data\webui.db`**

To verify the exact location, run:

```cmd
py -3.11
```

Then in Python:

```python
import open_webui
print(open_webui.__file__)
# Look in the same directory for the 'data' folder
```

The data directory contains:

- `webui.db` - Main SQLite database (chat history, users, settings)

- `uploads/` - User uploaded files

- `vector_db/` - Vector embeddings for RAG/document search

- `cache/` - Temporary cache files

What to Backup

1. **Open WebUI data directory:** `D:\Misc\Python311\Lib\site-packages\open_webui\data\`
   - Especially `webui.db` (contains all chat history and settings)
   - `uploads/` folder (user uploaded documents)
   - `vector_db/` folder (document embeddings)

2. **Cloudflare tunnel config:** `C:\Users\DrDen\.cloudflared\config.yml`

3. **Ollama models** (if customized): Usually in `C:\Users\DrDen\.ollama\models\`

How to Backup

- **Quick backup:** Copy the entire data directory to another location

- **Database only:** Copy `webui.db` file

- Use the export function in Open WebUI admin panel for chat history

- Regularly backup the config.yml file

- Consider scheduling automated backups with Task Scheduler

Support Resources

- **Open WebUI Documentation:** https://docs.openwebui.com

- **Ollama Documentation:** https://ollama.ai/docs

- **Cloudflare Tunnel Docs:** https://developers.cloudflare.com/cloudflare-one/connections/connect-apps/

Quick Reference

Task	Command
Check service	`d:\Misc\nssm.exe status OpenWebUI2`
Restart service	`d:\Misc\nssm.exe restart OpenWebUI2`
View errors	`type D:\Misc\openwebui-stderr.log`
Update software	`py -3.11 -m pip install --upgrade open-webui`
Check port 8080	\`netstat -ano
Access locally	http://localhost:8080
Access remotely	https://chat.ldmathes.cc