

Ollama Open-Webui

Notes only for now:

<https://github.com/open-webui/open-webui>

<https://docs.openwebui.com/getting-started/env-configuration/#general>

Nvidia GPU, linux:

```
mkdir /opt/ollama
mkdir /opt/open-webui
mkdir /opt/openedai-speech/tts-voices
mkdir /opt/openedai-speech/tts-config
mkdir /opt/pipelines
mkdir /opt/docker-ssl-proxy
mkdir /opt/faster-whisper-server
```

[docker-ollama.yml](#)

```
name: ollama
services:
  ollama:
    image: ollama/ollama:latest
    container_name: ollama
    volumes:
      - /opt/ollama:/root/.ollama
    ports:
      - 11434:11434
    #runtime: nvidia
    restart: unless-stopped
    deploy:
      resources:
        reservations:
          devices:
            - driver: nvidia
              #device_ids: ['0']
              count: 1
              capabilities: [gpu]
```

[docker-openwebui.yml](#)

```
name: open-webui
services:
  open-webui:
    image: ghcr.io/open-webui/open-webui:main
    container_name: open-webui
    deploy:
      resources:
```

```
    reservations:
      devices:
        - driver: nvidia
          device_ids: ['0']
          capabilities: [gpu]
  ports:
    - 3000:8080
  volumes:
    - /opt/open-webui:/app/backend/data
  restart: unless-stopped
  extra_hosts:
    host.docker.internal: host-gateway
  environment:
    - WEBUI_NAME=CustomGPTName
```

[docker-openedai-speech.yml](#)

```
name: openedai-speech
services:
  openedai-speech:
    image: ghcr.io/matatonic/openedai-speech
    container_name: openedai-speech
    ports:
      - "8060:8000"
    volumes:
      - /opt/openedai-speech/tts-voices:/app/voices
      - /opt/openedai-speech/tts-config:/app/config
    restart: unless-stopped
  deploy:
    resources:
      reservations:
        devices:
          - driver: nvidia
            device_ids: ['0']
            capabilities: [gpu]
    environment:
      - TZ=Europe/London
      - TTS_HOME=voices
      - HF_HOME=voices
      # - PRELOAD_MODEL=xtts
      # - PRELOAD_MODEL=xtts_v2.0.2
      # - PRELOAD_MODEL=parler-tts/parler_tts_mini_v0.1
```

In open-webui under settings → audio

1. set to openai
2. API Base URL: <http://host.docker.internal:8060/v1>
3. API Key: sk-1111111111 (note: this is a dummy API key, no key required)
4. Under TTS Voice within the same audio settings menu in the admin panel, you can set the TTS

Model to use from the following choices below that openedai-speech supports. The voices of these models are optimized for the English language.

tts-1 or tts-1-hd: alloy, echo, echo-alt, fable, onyx, nova, and shimmer (tts-1-hd is configurable; uses OpenAI samples by default)

[docker-pipelines.yml](#)

```
name: pipelines
services:
  pipelines:
    image: ghcr.io/open-webui/pipelines:main
    container_name: pipelines
    volumes:
      - /opt/pipelines:/app/pipelines
    ports:
      - 9099:9099
    restart: always
    extra_hosts:
      host.docker.internal: host-gateway
    deploy:
      resources:
        reservations:
          devices:
            - driver: nvidia
              device_ids: ['0']
              capabilities: [gpu]
```

Under settings→connections set:

1. OPENAI API host: <http://host.docker.internal:9099>
2. OPENAI API Key: 0p3n-w3bu!

```
git clone https://github.com/fedirz/faster-whisper-server
```

[docker-faster-whisper-server.yml](#)

```
name: faster-whisper-server
services:
  faster-whisper-server-cuda:
    image: fedirz/faster-whisper-server:latest-cuda
    build:
      dockerfile: faster-whisper-server/Dockerfile.cuda
      context: ./faster-whisper-server
      platforms:
        - linux/amd64
    volumes:
      - /opt/faster-whisper-server/:/root/.cache/huggingface
    restart: unless-stopped
    ports:
      - 8010:8000
```

```
develop:
  watch:
    - path: faster_whisper_server
      action: rebuild
  deploy:
    resources:
      reservations:
        devices:
          - capabilities: ["gpu"]
```

go to settings → audio, set

1. OPENAI API host: <http://host.docker.internal:8010/v1>
2. OPENAI API Key: sk-something
3. model: whisper-1

NOTE: speech to text requires https connection to open-webui as browsers do not have access to microphone on http connection!

```
mkdir /opt/docker-ssl-proxy/
cd /opt/docker-ssl-proxy/
openssl req -subj '/CN=hostname.example.com' -x509 -newkey rsa:4096 -nodes -
keyout key.pem -out cert.pem -days 365
```

/opt/docker-ssl-proxy/proxy_ssl.conf

```
server {
    listen 80;
    server_name _;
    return 301 https://$host$request_uri;
}
server {
    listen 443 ssl;
    ssl_certificate /etc/nginx/conf.d/cert.pem;
    ssl_certificate_key /etc/nginx/conf.d/key.pem;
    location / {
        proxy_pass http://host.docker.internal:3000;
    }
}
```

[docker-ssl-proxy.yml](#)

```
name: nginx-proxy
services:
  nginx-proxy:
    image: nginx
    container_name: nginx-proxy
    ports:
      - 80:80
```

```
- 443:443
volumes:
  - /opt/docker-ssl-proxy:/etc/nginx/conf.d
restart: unless-stopped
extra_hosts:
  host.docker.internal: host-gateway
environment:
  - TZ=Europe/London
```

To pull an ollama image, better to use ollama directly as the webinterface doesn't handle stalls well:

```
docker exec -ti ollama ollama pull imagename:tag
```

To update all previously pulled ollama models, use this bash script:

[update-ollama-models.sh](#)

```
#!/bin/bash

docker exec -ti ollama ollama list | tail -n +2 | awk '{print $1}' |
while read -r model; do
  echo "Updating model: $model..."
  docker exec -t ollama ollama pull $model
  echo "--"
done
echo "All models updated."
```

AMD GPU on Windows:

[docker-ollama.yml](#)

```
name: ollama
services:
  ollama:
    image: ollama/ollama:rocm
    container_name: ollama
    volumes:
      - /p/Docker_Volumes/ollama:/root/.ollama
    ports:
      - 11434:11434
    deploy:
      resources:
        reservations:
          devices:
            - capabilities: [gpu]
```

[docker-openwebui.yml](#)

```
name: webui
services:
  open-webui:
    image: ghcr.io/open-webui/open-webui:main
    container_name: open-webui
    deploy:
      resources:
        reservations:
          devices:
            - capabilities: [gpu]
    ports:
      - 3000:8080
    volumes:
      - /p/Docker_Volumes/openwebui:/app/backend/data
    restart: always
    extra_hosts:
      host.docker.internal: host-gateway
    environment:
      - WEBUI_AUTH=false
```

docker install - WSL2 backend cmd line

```
docker compose -f docker-openwebui.yml up -d
docker compose -f docker-ollama.yml up -d
```

mkdir p/Docker_Volumes = P:\Docker_Volumes

to update all ollama models on windows, use this powershell command - adjust for the hostname/ip ollama is running on:

```
(Invoke-RestMethod http://localhost:11434/api/tags).Models.Name.ForEach{
ollama pull $_ }

#or if in docker
(Invoke-RestMethod http://localhost:11434/api/tags).Models.Name.ForEach{
docker exec -t ollama ollama pull $_ }
```

From: <http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link: <http://wuff.dyndns.org/doku.php?id=ai:ollama-openwebui&rev=1720786280>

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