

Installing Open WebUI 5.20 on Ubuntu 22.04

- Install Ubuntu 24.04. (Note to have sufficient storage for the models)
- Update the ubuntu system to ensure all are up to date before installig the open-webui

```
sudo apt update -y && sudo apt upgrade -y
```

Install the Ollama

1. Download the installation script for Ollama

```
wget https://ollama.ai/install.sh
```

2. Make the script executable

```
sudo chmod +x install.sh
```

3. Run the installation script of Ollama

```
sudo ./install.sh
```

```
alfreddgreat@HPZ640:~$ sudo ./install.sh
>>> Installing ollama to /usr/local
>>> Downloading Linux amd64 bundle
##### 100,0%
>>> Creating ollama user...
>>> Adding ollama user to render group...
>>> Adding ollama user to video group...
>>> Adding current user to ollama group...
>>> Creating ollama systemd service...
>>> Enabling and starting ollama service...
Created symlink /etc/systemd/system/default.target.wants/ollama.service → /etc/systemd/system/ollama.service.
>>> NVIDIA GPU installed.
```

4. Enable the Ollama service to start at boot using systemctl.

```
sudo systemctl enable ollama
```

5. Start the Ollama service using systemctl.

```
sudo systemctl start ollama
```


model llama3:70b

```
sudo ollama pull llama3:70b
```

Install the Open WebUI using python 3.11

1. Install the python 3.11.

```
sudo apt install python3.11
```

```
alfreddgreat@HPZ640:~$ sudo apt install python3.11
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libpython3.11-minimal libpython3.11-stdlib python3.11-minimal
Suggested packages:
  python3.11-venv python3.11-doc binfmt-support
The following NEW packages will be installed:
  libpython3.11-minimal libpython3.11-stdlib python3.11 python3.11-minimal
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 5.615 kB of archives.
After this operation, 21,5 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

2. Install the python3-pip

```
sudo python3.11 -m pip install open-webui
```

```
alfreddgreat@HPZ640:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc libjs-underscore libpython3-dev libpython3.10-dev
  python3-dev python3-distutils python3-setuptools python3-wheel python3.10-dev zlib1g-dev
Suggested packages:
  apache2 | lighttpd | httpd python-setuptools-doc
The following NEW packages will be installed:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc libjs-underscore libpython3-dev libpython3.10-dev
  python3-dev python3-distutils python3-pip python3-setuptools python3-wheel python3.10-dev zlib1g-dev
0 upgraded, 14 newly installed, 0 to remove and 0 not upgraded.
Need to get 8.015 kB of archives.
After this operation, 34,2 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

3. Install Open WebUI using python 3.11.

```
sudo python3.11 -m pip install open-webui
```

```

Collecting aiosignal>=1.1.2
  Downloading aiosignal-1.3.2-py2.py3-none-any.whl (7.6 kB)
Collecting frozenlist>=1.1.1
  Downloading frozenlist-1.5.0-cp311-cp311-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (274 kB)
----- 274.9/274.9 KB 42.7 MB/s eta 0:00:00
Collecting propcache>=0.2.0
  Downloading propcache-0.3.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (231 kB)
----- 231.3/231.3 KB 38.4 MB/s eta 0:00:00
Collecting attrs>=17.3.0
  Downloading attrs-25.3.0-py3-none-any.whl (63 kB)
----- 63.8/63.8 KB 13.2 MB/s eta 0:00:00
Collecting yarl<2.0,>=1.17.0
  Downloading yarl-1.18.3-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (344 kB)
----- 344.1/344.1 KB 37.3 MB/s eta 0:00:00
Collecting aiohappyeyeballs>=2.3.0
  Downloading aiohappyeyeballs-2.6.1-py3-none-any.whl (15 kB)
Collecting multidict<7.0,>=4.5
  Downloading multidict-6.1.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (129 kB)
----- 129.0/129.0 KB 16.2 MB/s eta 0:00:00
Collecting typing-extensions>=4
  Downloading typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Requirement already satisfied: Mako in /usr/lib/python3/dist-packages (from alembic==1.14.0->open-webui) (1.1.3)
Requirement already satisfied: pytz in /usr/lib/python3/dist-packages (from apscheduler==3.10.4->open-webui) (2022.1)
Requirement already satisfied: six>=1.4.0 in /usr/lib/python3/dist-packages (from apscheduler==3.10.4->open-webui) (1.16.0)
Collecting tzlocal!=3.*,>=2.0

```

4. Install the python packages Pillow and pyopenssl

```
sudo python3.11 -m pip install -U Pillow pyopenssl
```

```

alfreddgreat@HPZ640:~$ sudo python3.11 -m pip install -U Pillow pyopenssl
Requirement already satisfied: Pillow in /usr/lib/python3/dist-packages (9.0.1)
Collecting Pillow
  Downloading pillow-11.1.0-cp311-cp311-manylinux_2_28_x86_64.whl (4.5 MB)
----- 4.5/4.5 MB 41.5 MB/s eta 0:00:00
Collecting pyopenssl
  Downloading pyOpenSSL-25.0.0-py3-none-any.whl (56 kB)
----- 56.5/56.5 KB 10.5 MB/s eta 0:00:00
Requirement already satisfied: typing-extensions>=4.9 in /usr/local/lib/python3.11/dist-packages (from pyopenssl) (4.12.2)
Requirement already satisfied: cryptography<45,>=41.0.5 in /usr/local/lib/python3.11/dist-packages (from pyopenssl) (44.0.2)
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.11/dist-packages (from cryptography<45,>=41.0.5->pyopenssl) (1.17.1)
Requirement already satisfied: pycparser in /usr/local/lib/python3.11/dist-packages (from cffi>=1.12->cryptography<45,>=41.0.5->pyopenssl) (2.22)
Installing collected packages: Pillow, pyopenssl
  Attempting uninstall: Pillow
    Found existing installation: Pillow 9.0.1
    Not uninstalling pillow at /usr/lib/python3/dist-packages, outside environment /usr
    Can't uninstall 'Pillow'. No files were found to uninstall.
Successfully installed Pillow-11.1.0 pyopenssl-25.0.0

```

5. Run the open-webui to test if it is working and then stop it with "CTRL + C".

```
sudo open-webgui serve
```


8. Reload the daemon.

```
sudo systemctl daemon-reload
```

9. Enable the openwebui.service using the systemctl.

```
sudo systemctl enable openwebui.service
```

10. Start the openwebui service.

```
sudo systemctl start openwebui
```

11. Check the status of the Open WebUI service.

```
sudo systemctl status openwebui
```

```
alfreddgreat@HPZ640:~$ sudo systemctl enable openwebui.service
Created symlink /etc/systemd/system/multi-user.target.wants/openwebui.service → /lib/systemd/system/openwebui.service
.
alfreddgreat@HPZ640:~$ sudo systemctl start openwebui
alfreddgreat@HPZ640:~$ sudo systemctl status openwebui
● openwebui.service - Open WebUI Service
   Loaded: loaded (/lib/systemd/system/openwebui.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2025-03-16 19:15:14 CET; 1min 25s ago
     Main PID: 52639 (open-webui)
        Tasks: 119 (limit: 270579)
      Memory: 602.3M
         CPU: 20.571s
    CGroup: /system.slice/openwebui.service
            └─52639 /usr/bin/python3.11 /usr/local/bin/open-webui serve

mar 16 19:15:23 HPZ640 open-webui[52639]: OPEN WEBUI
mar 16 19:15:23 HPZ640 open-webui[52639]:
mar 16 19:15:23 HPZ640 open-webui[52639]:
mar 16 19:15:23 HPZ640 open-webui[52639]:
mar 16 19:15:23 HPZ640 open-webui[52639]: v0.5.20 - building the best open-source AI user interface.
mar 16 19:15:23 HPZ640 open-webui[52639]: https://github.com/open-webui/open-webui
mar 16 19:15:23 HPZ640 open-webui[52639]: [149B blob data]
mar 16 19:15:23 HPZ640 open-webui[52639]: INFO: Started server process [52639]
mar 16 19:15:23 HPZ640 open-webui[52639]: INFO: Waiting for application startup.
mar 16 19:15:23 HPZ640 open-webui[52639]: 2025-03-16 19:15:23.928 | INFO | open_webui.utils.logger:start_logger:
lines 1-20/20 (END)
```

Install nginx to proxy the port 8080 to port 80 or 443.

1. Install the Nigin.

```
sudo apt install nginx -y
```

2. Start the nginx service.

```
sudo systemctl start nginx
```

3. Create a site configuration in the site-available directory of nginx, `/etc/nginx/sites-available/openwebui.conf`.

```
sudo vim /etc/nginx/sites-available/openwebui.conf
```

4. Paste the following data and then save the file.

```
server {
    listen 80;
    server_name openwebuiHP.homehaktrak.local openwebuiHP;

    access_log /var/log/nginx/openwebui_access.log;
    error_log /var/log/nginx/openwebui_error.log;

    location / {
        proxy_pass http://127.0.0.1:8080;

        client_max_body_size 300M;

        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

        proxy_read_timeout 300;
        proxy_connect_timeout 300;
        proxy_send_timeout 300;

        # (Optional) Disable proxy buffering for better streaming response from models
        proxy_buffering off;

    }
}
```

5. Make a soft link for the openwebui.conf file from the site-available to the site-enabled

```
sudo ln -s /etc/nginx/sites-available/openwebui.conf /etc/nginx/sites-enabled/openwebui.conf
```

6. Test the configuration and reload the nginx service.

```
sudo nginx -t && sudo systemctl restart nginx
```

7. Before accessing the IP for port 80, we have to edit the /etc/hosts file.

```
sudo nano /etc/hosts
```

8. Paste the following in the /etc/hosts file.

```
IP_OF_SERVER openwebui openwebui.homehaktrak.local
```

```
127.0.0.1 localhost
127.0.1.1 HPZ640

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

IP_OF_SERVER openwebui openwebui.homehaktrak.local
```

9. test the configuration and if there are no errors then the service will be restarted.

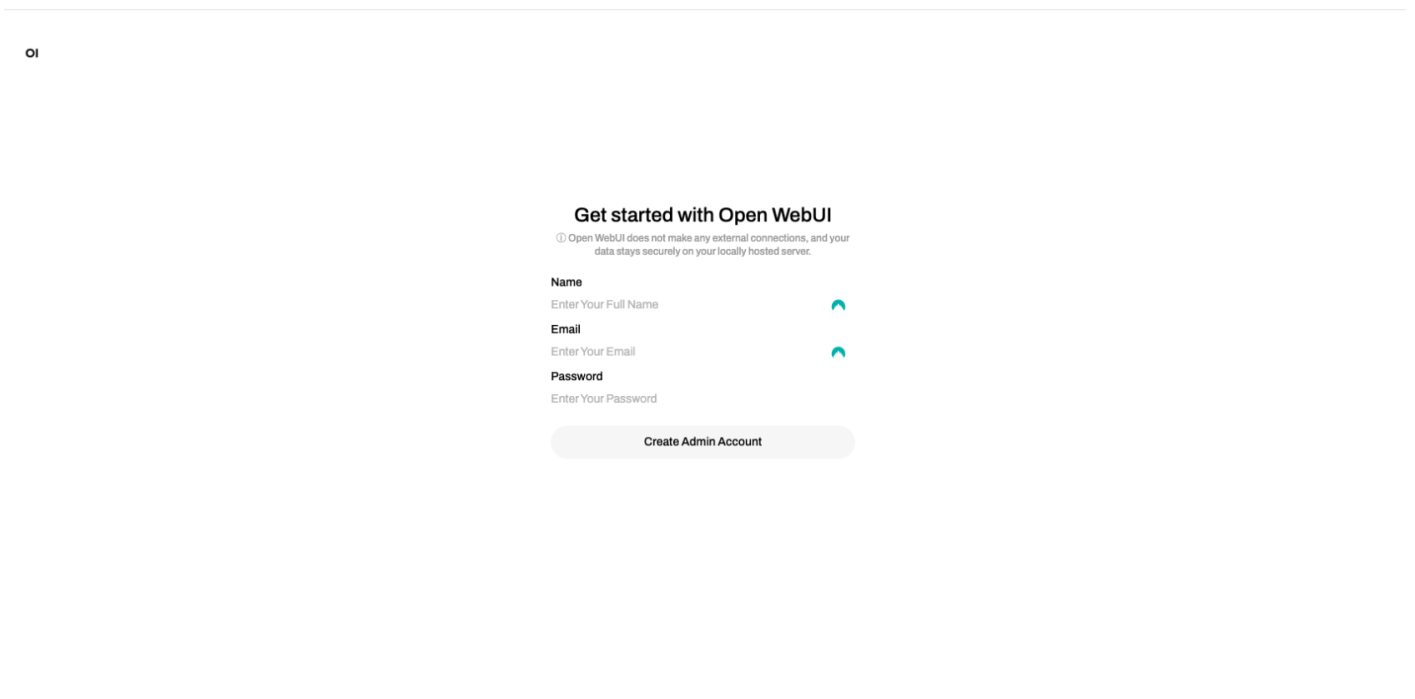
```
sudo nginx -t && sudo systemctl restart nginx
```

Using the browser preferred

1. Open the browser.



2. Press "**Get Started**", and the next slide will ask a "**Name**", "**email**", and a "**Password**".



3. Press Create "**Admin Account**".

Get started with Open WebUI

① Open WebUI does not make any external connections, and your data stays securely on your locally hosted server.

Name

alfredonacino



Email

alfredo@nacino.net



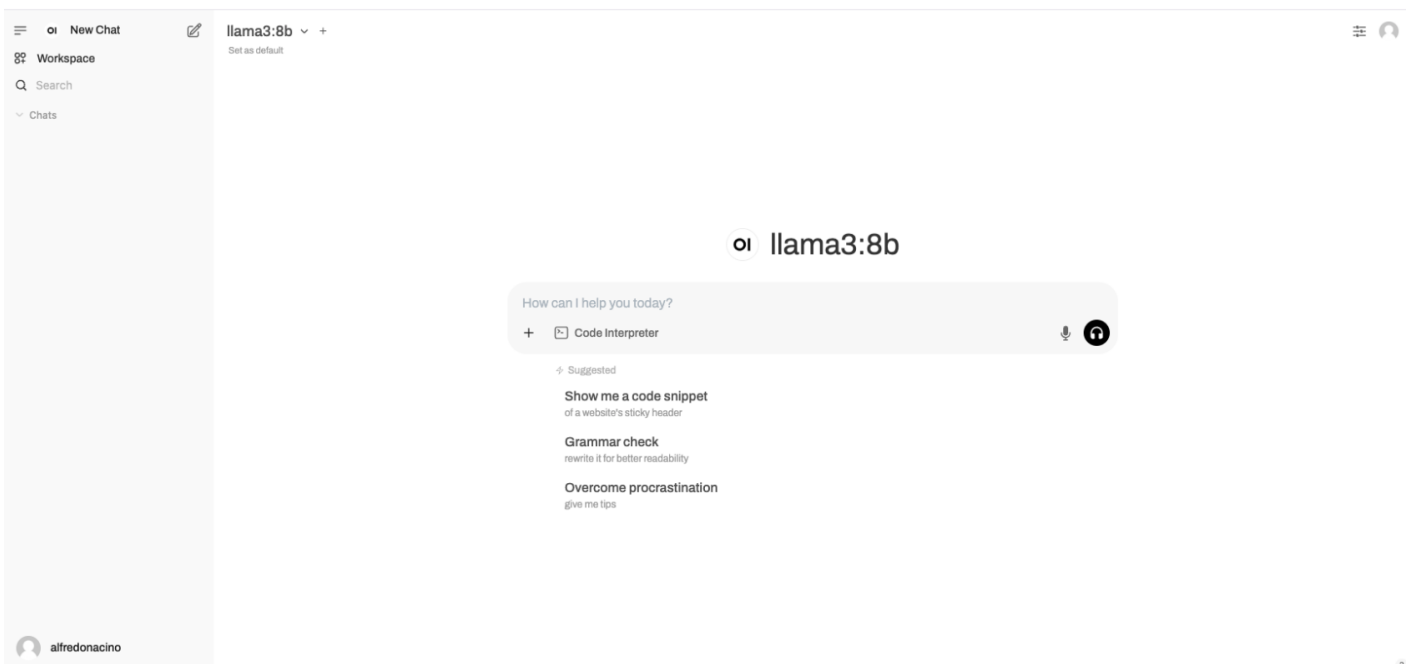
Password

.....



Create Admin Account

4. Start the webui.



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