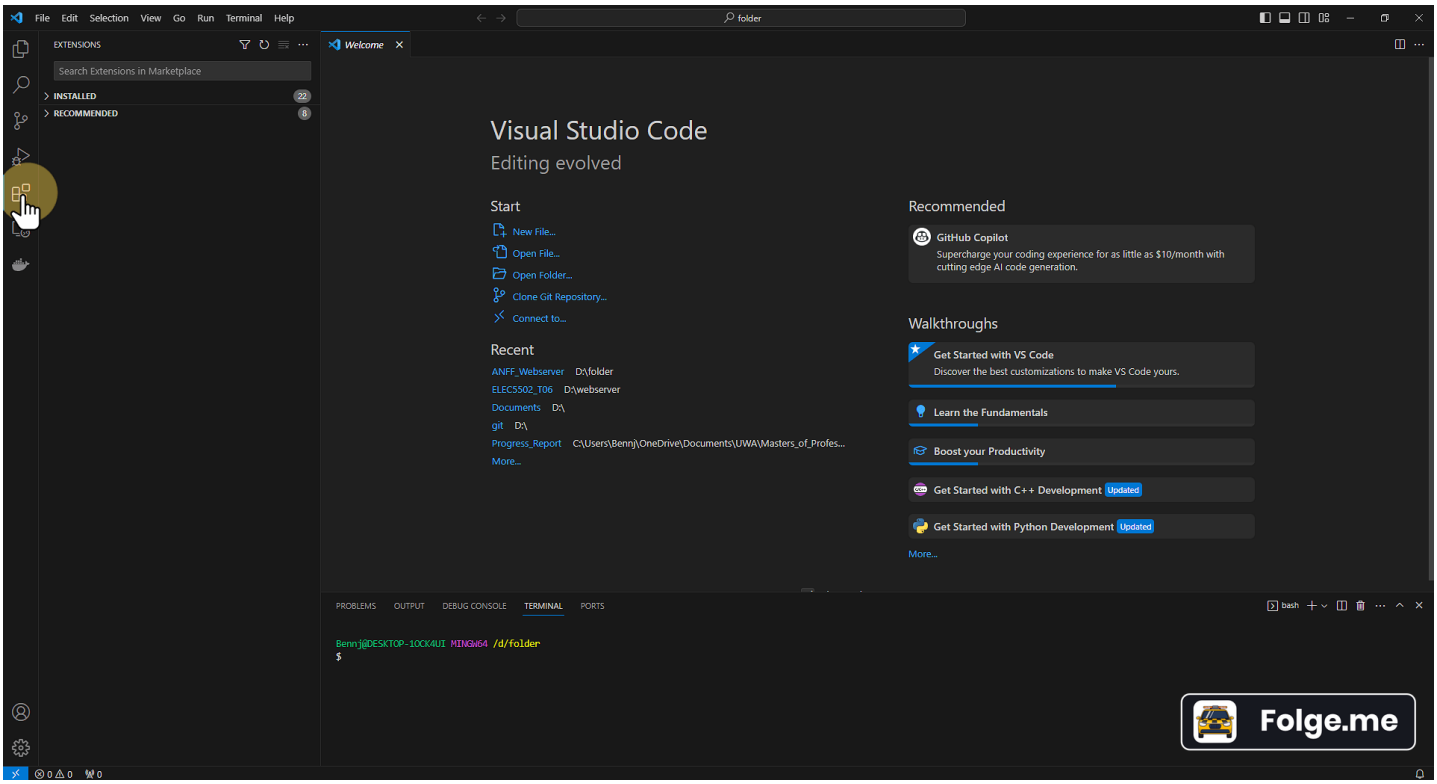
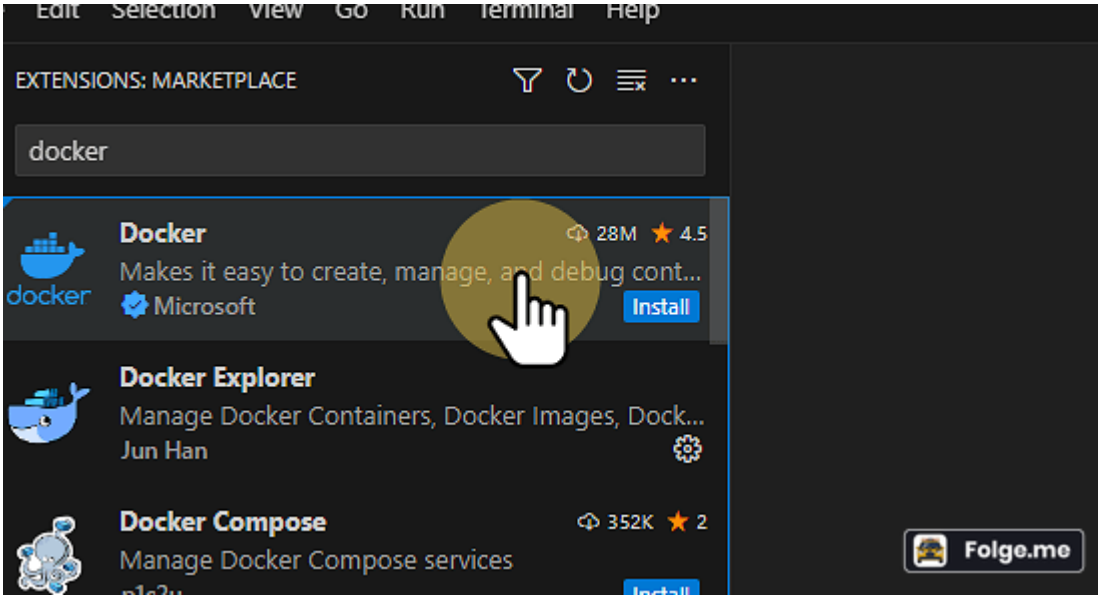
Web Server Quick Setup Guide

1 Open VS Code and navigate to extensions

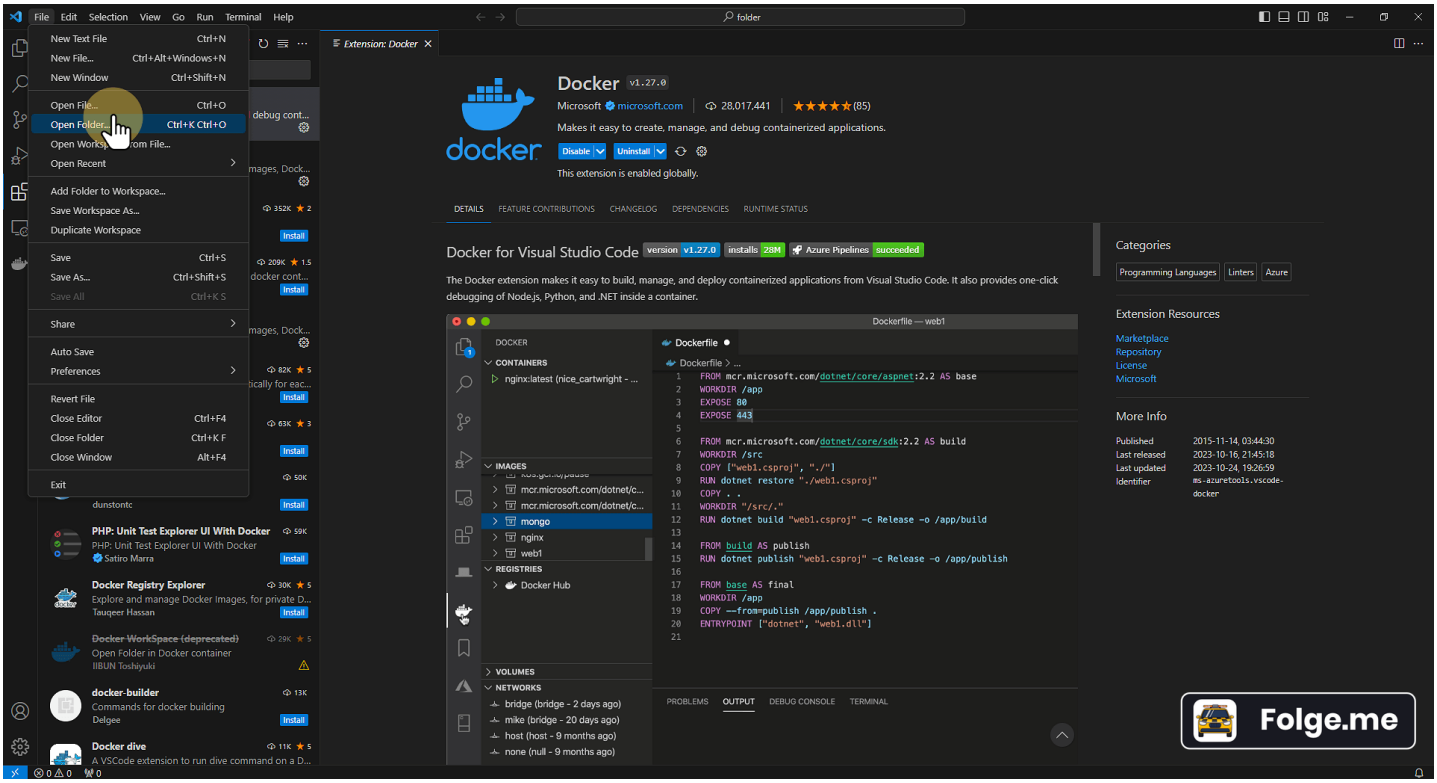


2 Search for Docker

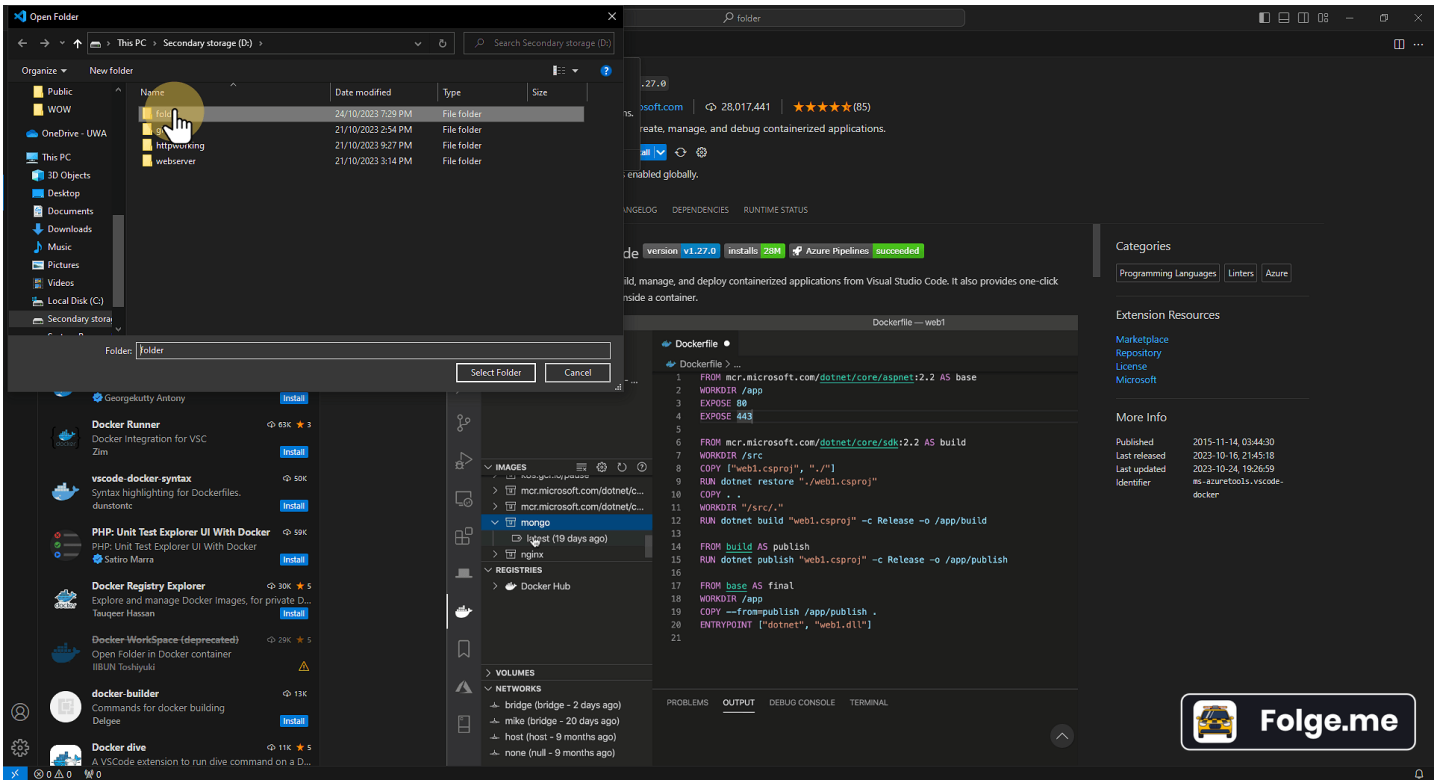


2.1 Install Docker extension

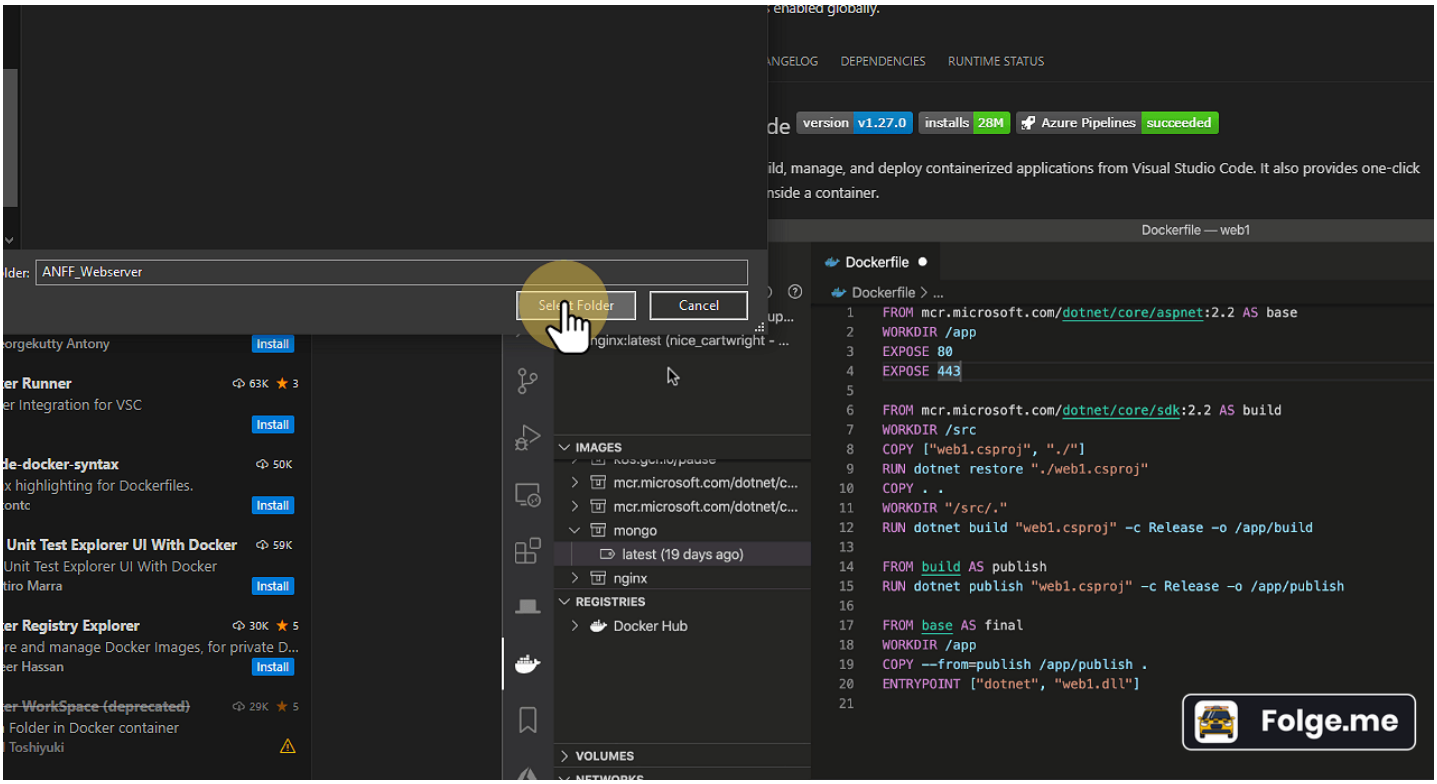
3 Open folder in VS code that you want to clone the web server into



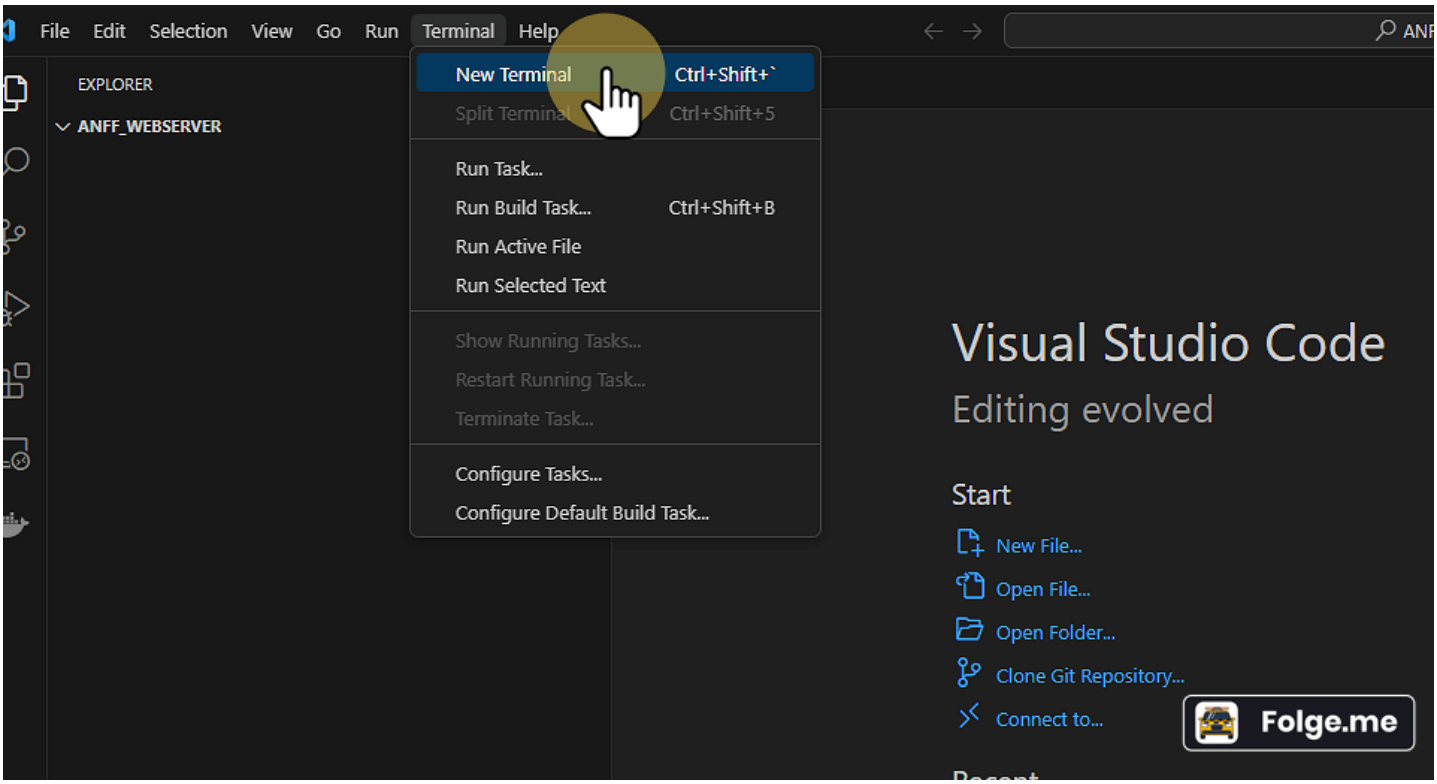
3.1


Open Folder
This PC › Secondary storage (D:) ›
Search Secondary storage (D:)
Organize
New folder
Public
WOW
OneDrive - UWA
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Secondary storage
Name
Date modified
Type
Size
24/10/2023 7:29 PM File folder
21/10/2023 2:54 PM File folder
21/10/2023 9:27 PM File folder
21/10/2023 3:14 PM File folder
webserver
Folder:
Select Folder
Cancel
Docker Runner
Docker Integration for VSC
Zim
vscode-docker-syntax
Syntax highlighting for Dockerfiles.
dunstontc
PHP: Unit Test Explorer UI With Docker
Satiro Marra
Docker Registry Explorer
Tauqeer Hassan
Docker WorkSpace (deprecated)
Open Folder in Docker container
docker-builder
Commands for docker building
Delgee
Docker dive
IMAGES
mcr.microsoft.com/dotnet/c...
mongo
latest (19 days ago)
nginx
REGISTRIES
Docker Hub
VOLUMES
NETWORKS
bridge (bridge - 2 days ago)
mike (bridge - 20 days ago)
host (host - 9 months ago)
none (null - 9 months ago)
Dockerfile — web1
Dockerfile
FROM mcr.microsoft.com/dotnet/core/aspnet:2.2 AS base
WORKDIR /app
EXPOSE 80
EXPOSE 443
FROM mcr.microsoft.com/dotnet/core/sdk:2.2 AS build
WORKDIR /src
COPY ["web1.csproj", "./"]
RUN dotnet restore "./web1.csproj"
COPY . .
WORKDIR "/src/."
RUN dotnet build "web1.csproj" -c Release -o /app/build
FROM build AS publish
RUN dotnet publish "web1.csproj" -c Release -o /app/publish
FROM base AS final
WORKDIR /app
COPY --from=publish /app/publish .
ENTRYPOINT ["dotnet", "web1.dll"]
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Categories
Programming Languages
Linters
Azure
Extension Resources
Marketplace
Repository
License
Microsoft
More Info
Published 2015-11-14, 03:44:30
Last released 2023-10-16, 21:45:18
Last updated 2023-10-24, 19:26:59
Identifier ms-azuretools.vscode-docker
Folge.me

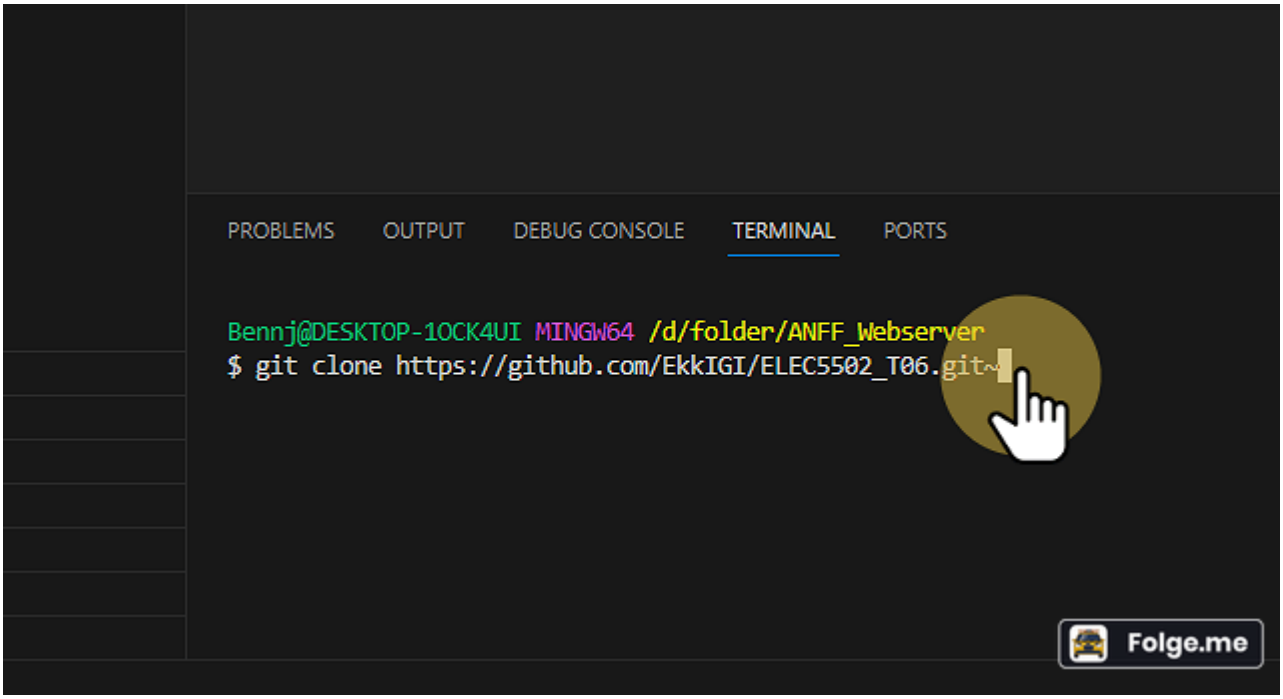
3.2


ANFF_Webserver
Select Folder
Cancel
Install
IMAGES
mcr.microsoft.com/dotnet/c...
mcr.microsoft.com/dotnet/c...
mongo
latest (19 days ago)
nginx
REGISTRIES
Docker Hub
VOLUMES
Dockerfile — web1
Dockerfile
FROM mcr.microsoft.com/dotnet/core/aspnet:2.2 AS base
WORKDIR /app
EXPOSE 80
EXPOSE 443
FROM mcr.microsoft.com/dotnet/core/sdk:2.2 AS build
WORKDIR /src
COPY ["web1.csproj", "./"]
RUN dotnet restore "./web1.csproj"
COPY . .
WORKDIR "/src/."
RUN dotnet build "web1.csproj" -c Release -o /app/build
FROM build AS publish
RUN dotnet publish "web1.csproj" -c Release -o /app/publish
FROM base AS final
WORKDIR /app
COPY --from=publish /app/publish .
ENTRYPOINT ["dotnet", "web1.dll"]
Folge.me

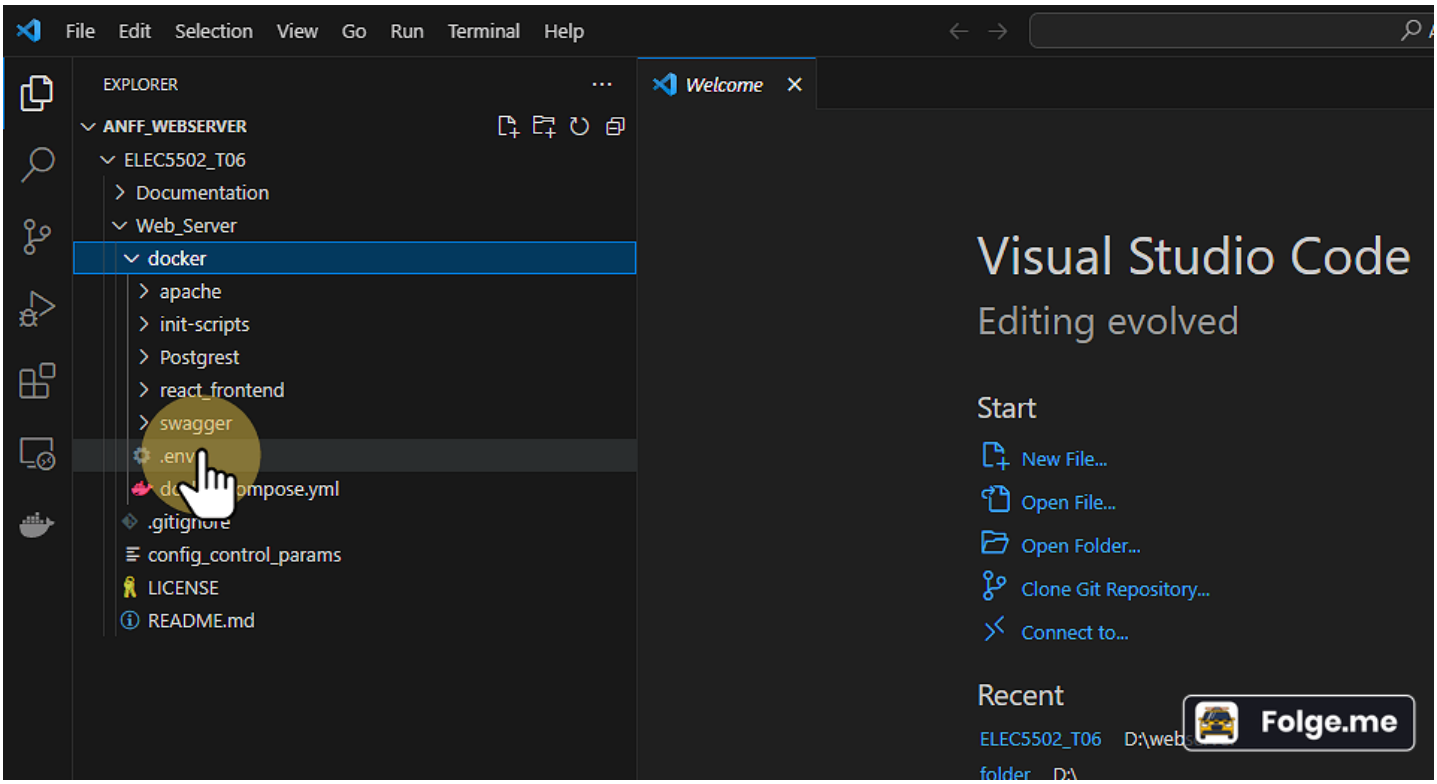
4 Open a new terminal in VS Code



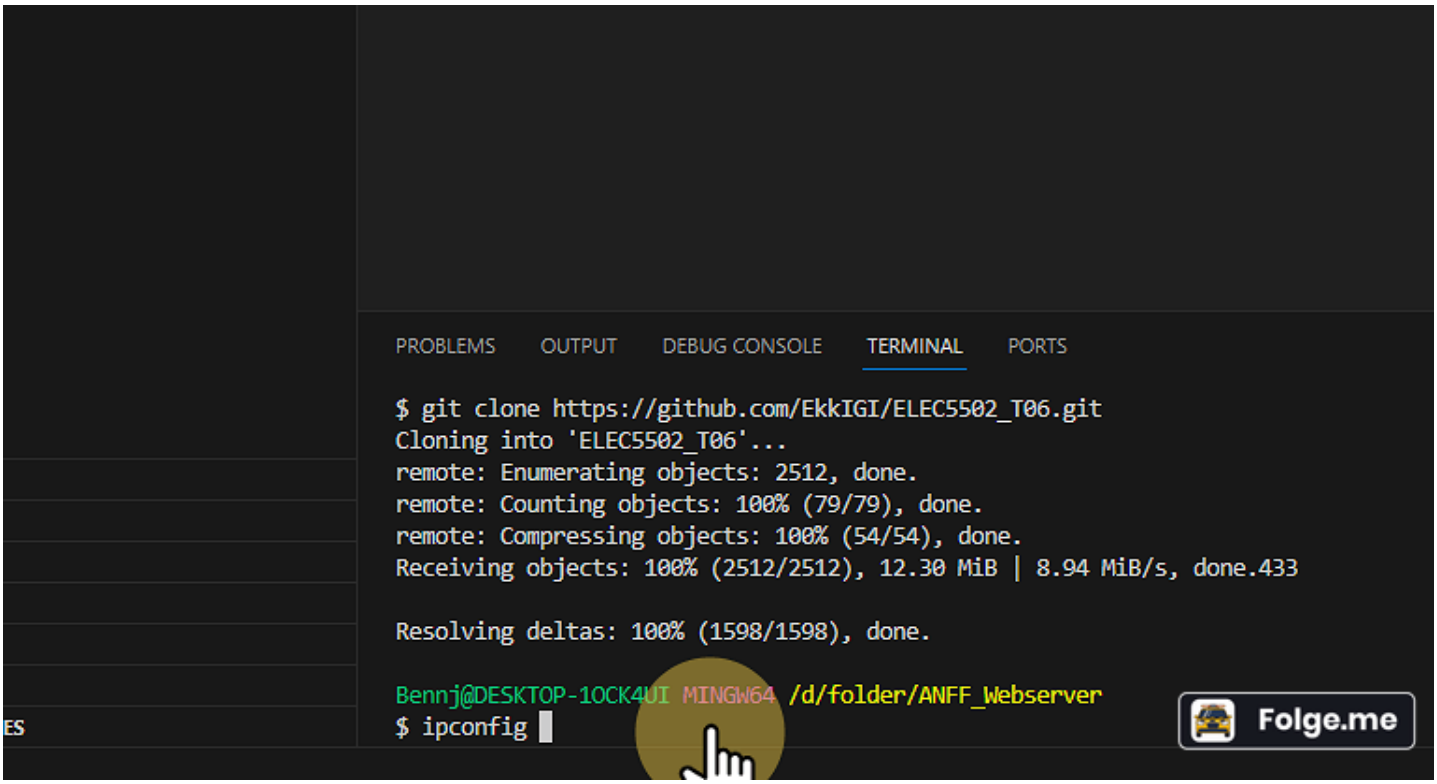
5 Run the command : git clone https://github.com/EkkIGI/ELEC5502_T06.git



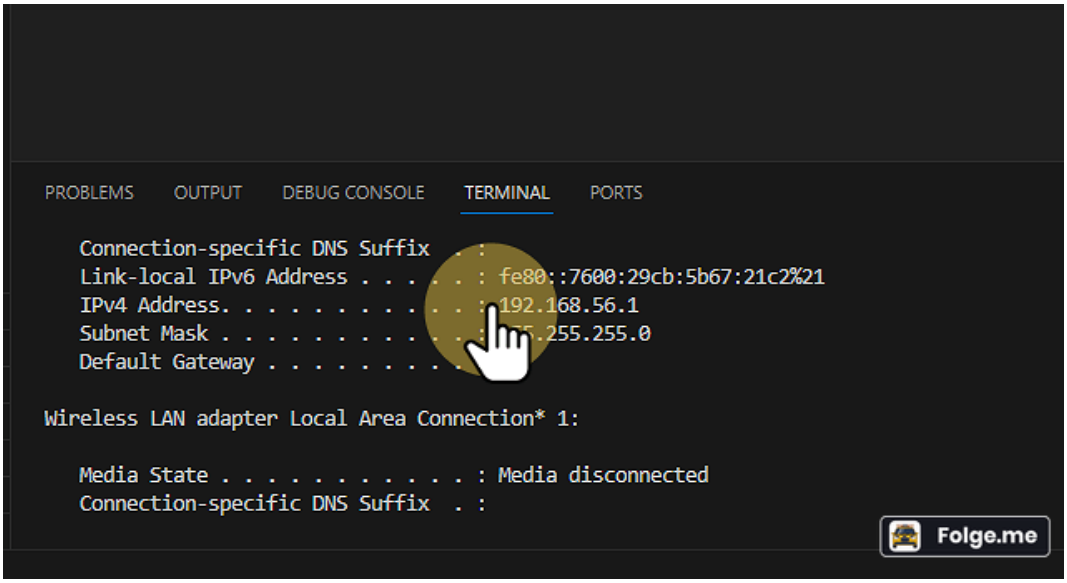
6 open the .env file in the docker folder in web_server



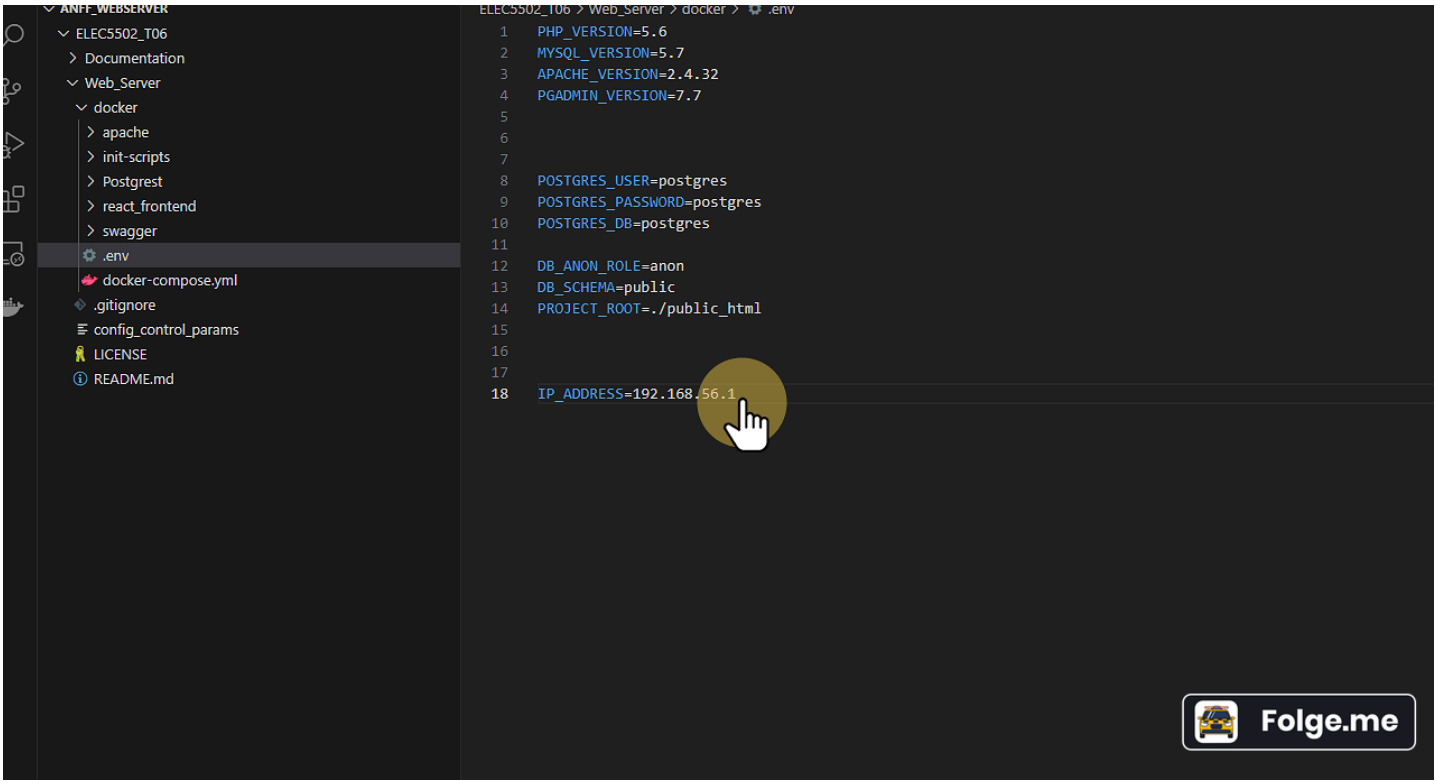
7 Run the command ipconfig in the terminal



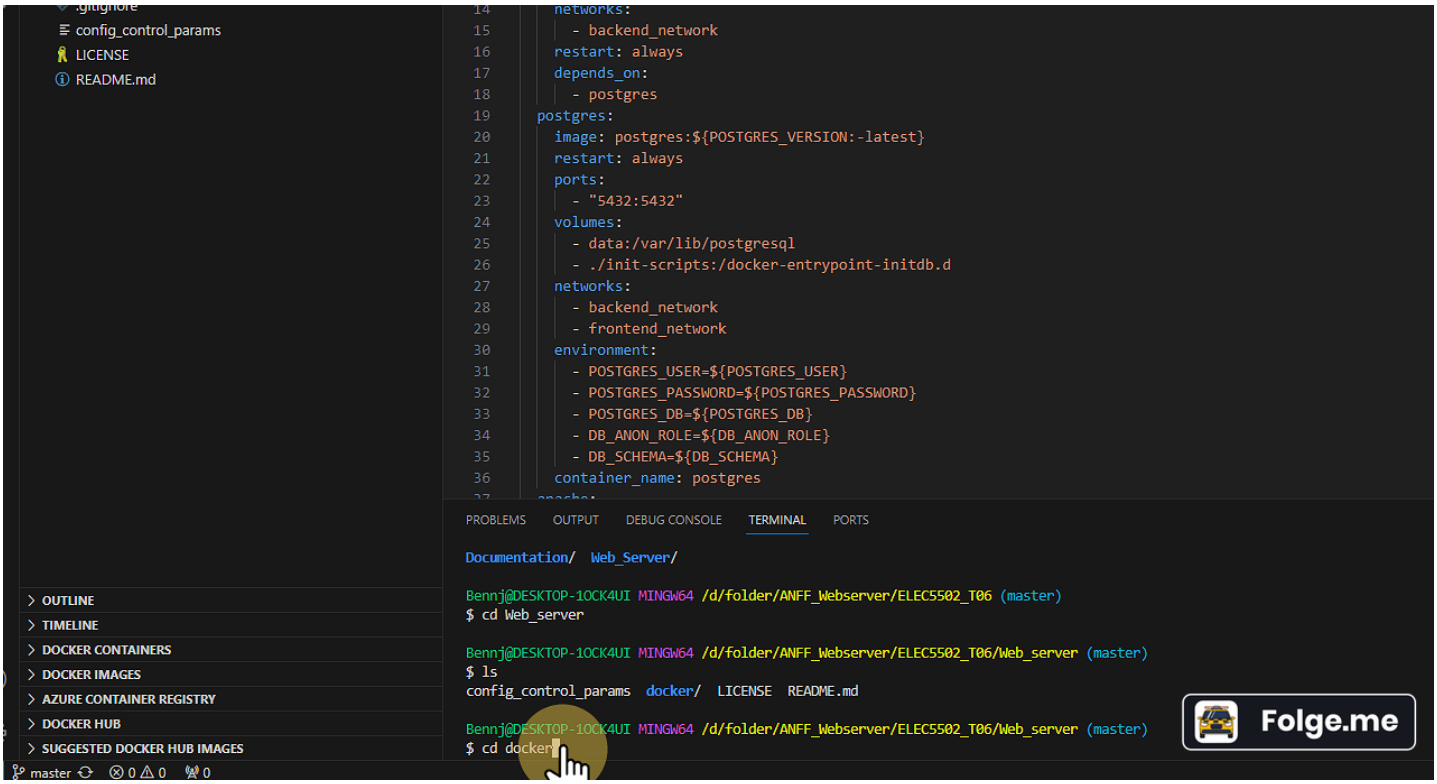
8 Locate the IPv4 Address and copy it



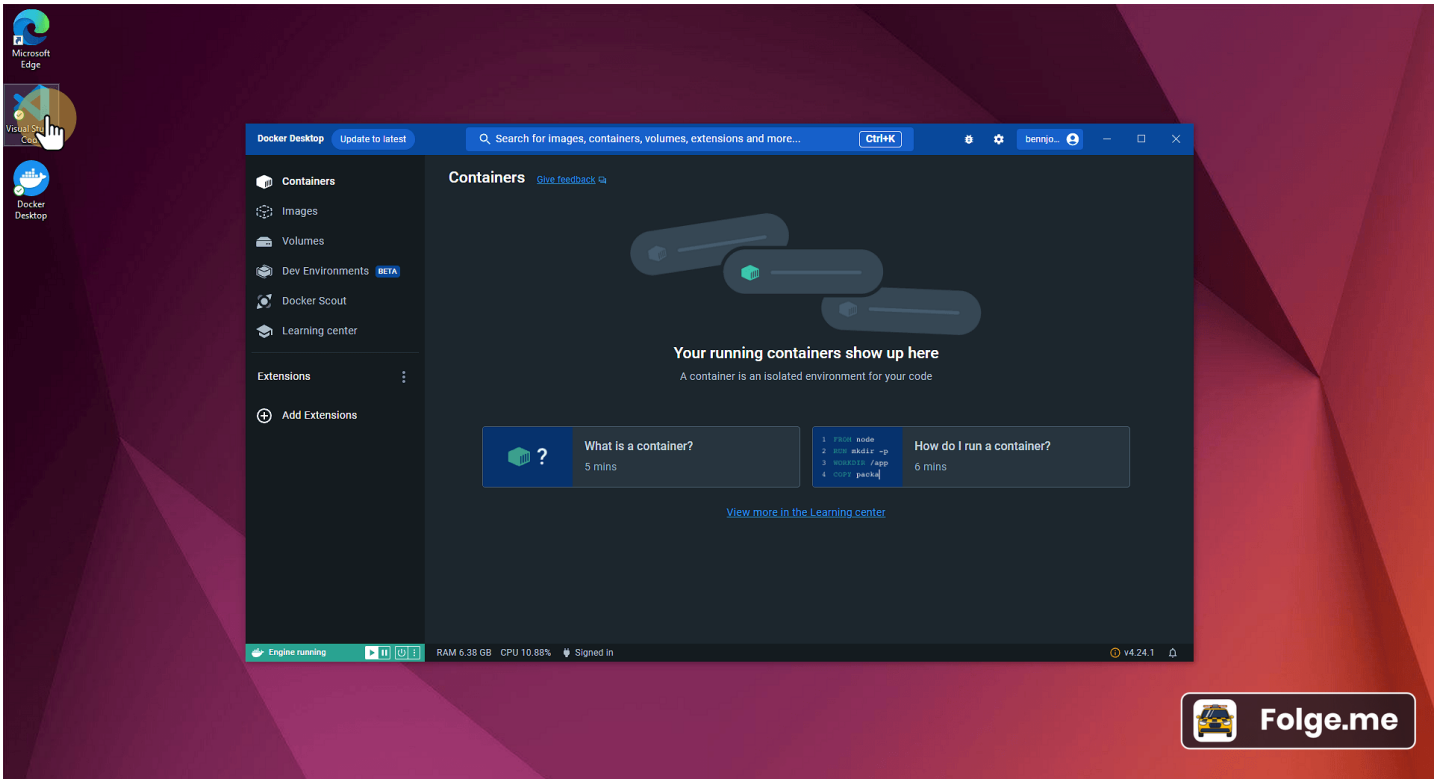
9 Paste the IPv4 address into the IP_ADDRESS line



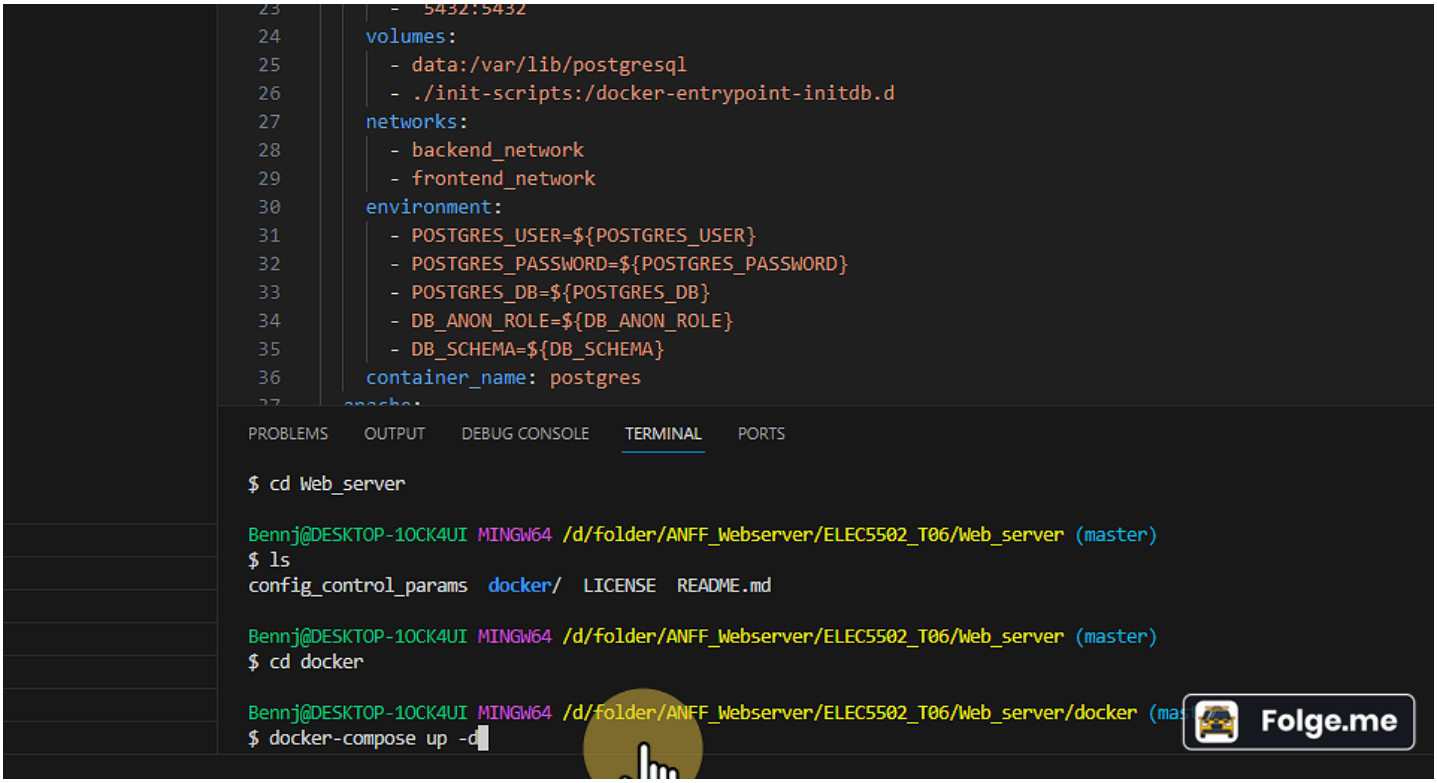
10 In the terminal navigate to the docker directory



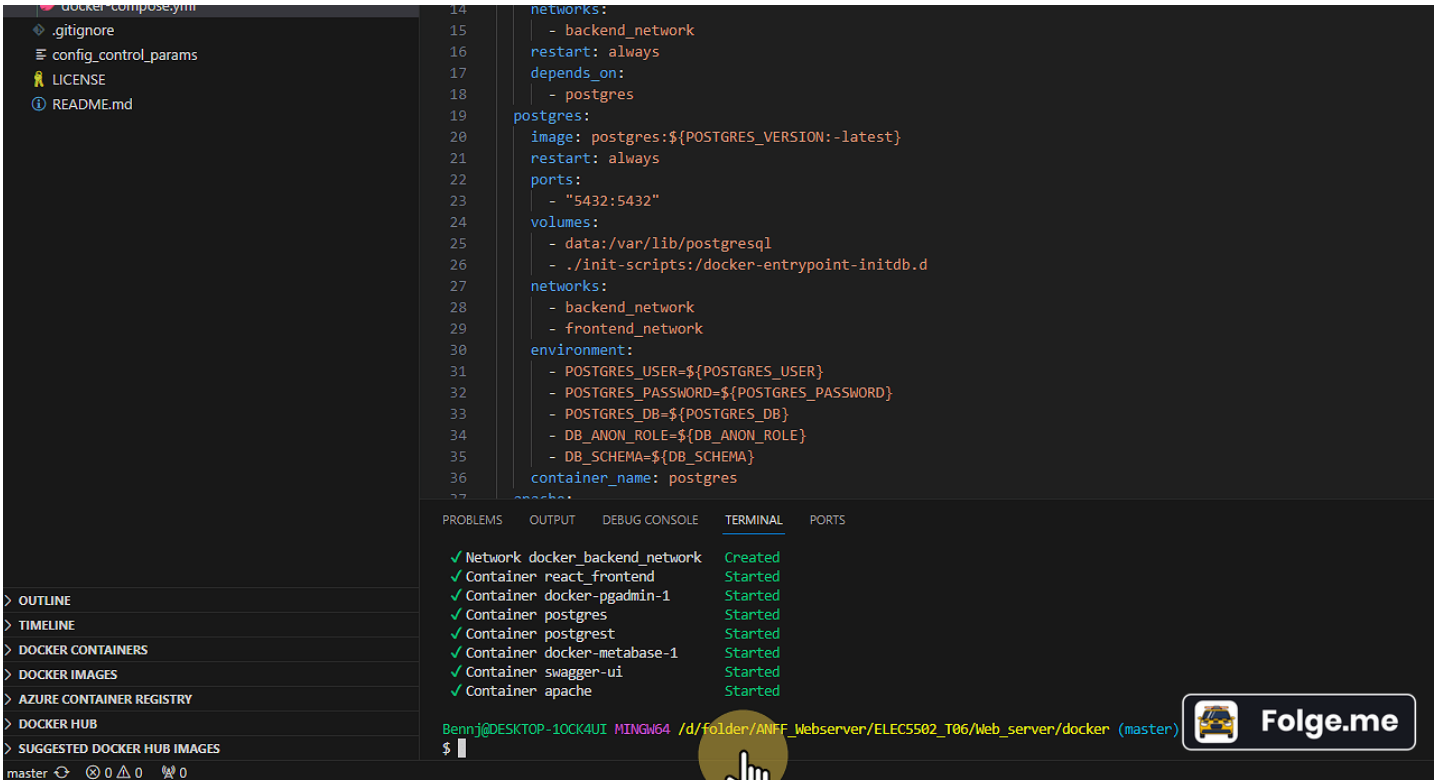
11 Open Docker Desktop



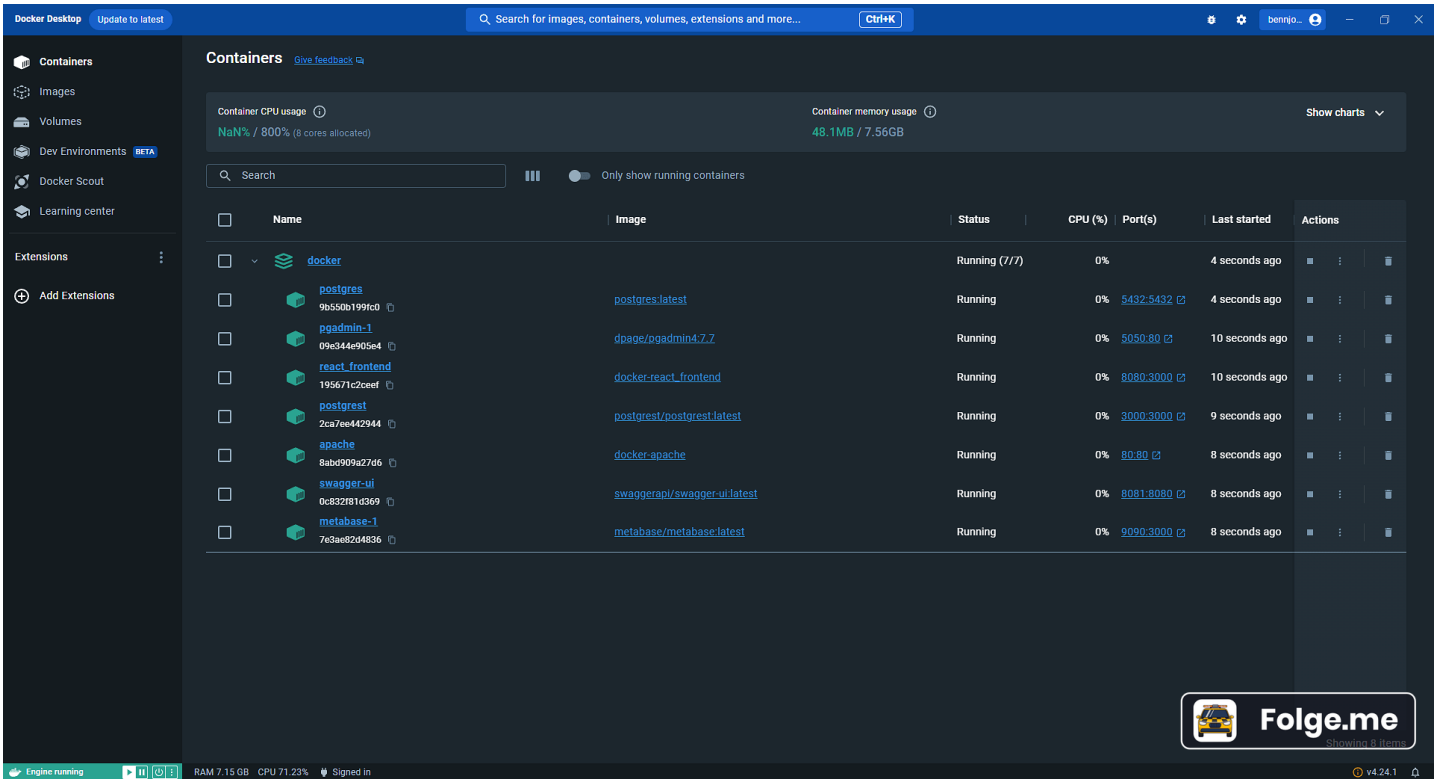
12 Run the following command in the terminal : docker-compose up -d



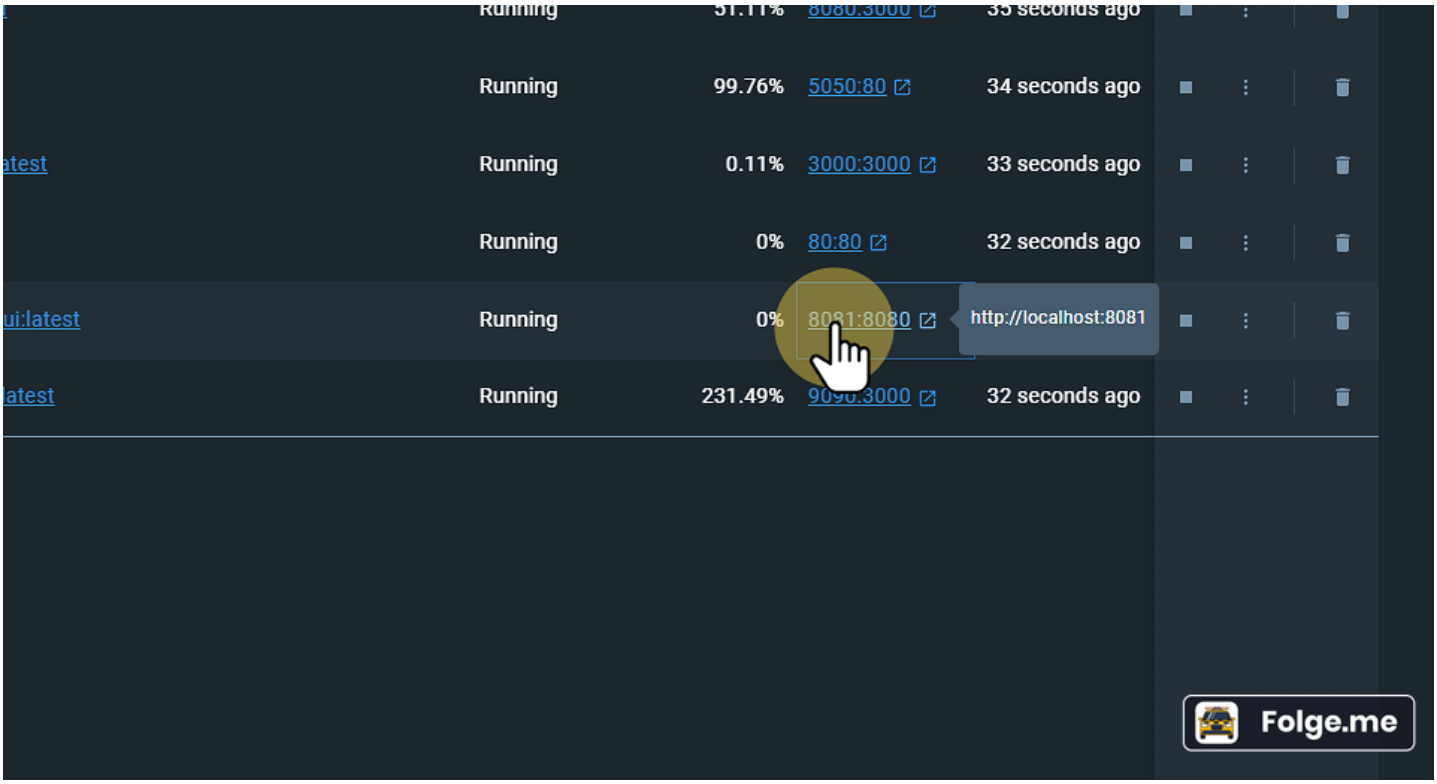
13


.gitignore
config_control_params
LICENSE
README.md
networks:
- backend_network
restart: always
depends_on:
- postgres
postgres:
image: postgres:${POSTGRES_VERSION:-latest}
restart: always
ports:
- "5432:5432"
volumes:
- data:/var/lib/postgresql
- ./init-scripts:/docker-entrypoint-initdb.d
networks:
- backend_network
- frontend_network
environment:
- POSTGRES_USER=${POSTGRES_USER}
- POSTGRES_PASSWORD=${POSTGRES_PASSWORD}
- POSTGRES_DB=${POSTGRES_DB}
- DB_ANON_ROLE=${DB_ANON_ROLE}
- DB_SCHEMA=${DB_SCHEMA}
container_name: postgres
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
✓ Network docker_backend_network Created
✓ Container react_frontend Started
✓ Container docker-pgadmin-1 Started
✓ Container postgres Started
✓ Container postgrest Started
✓ Container docker-metabase-1 Started
✓ Container swagger-ui Started
✓ Container apache Started
Bennj@DESKTOP-1OCK4UI MINGW64 /d/folder/ANFF_Webserver/ELEC5502_T06/Web_server/docker (master)
$
OUTLINE
TIMELINE
DOCKER CONTAINERS
DOCKER IMAGES
AZURE CONTAINER REGISTRY
DOCKER HUB
SUGGESTED DOCKER HUB IMAGES
master
Folge.me

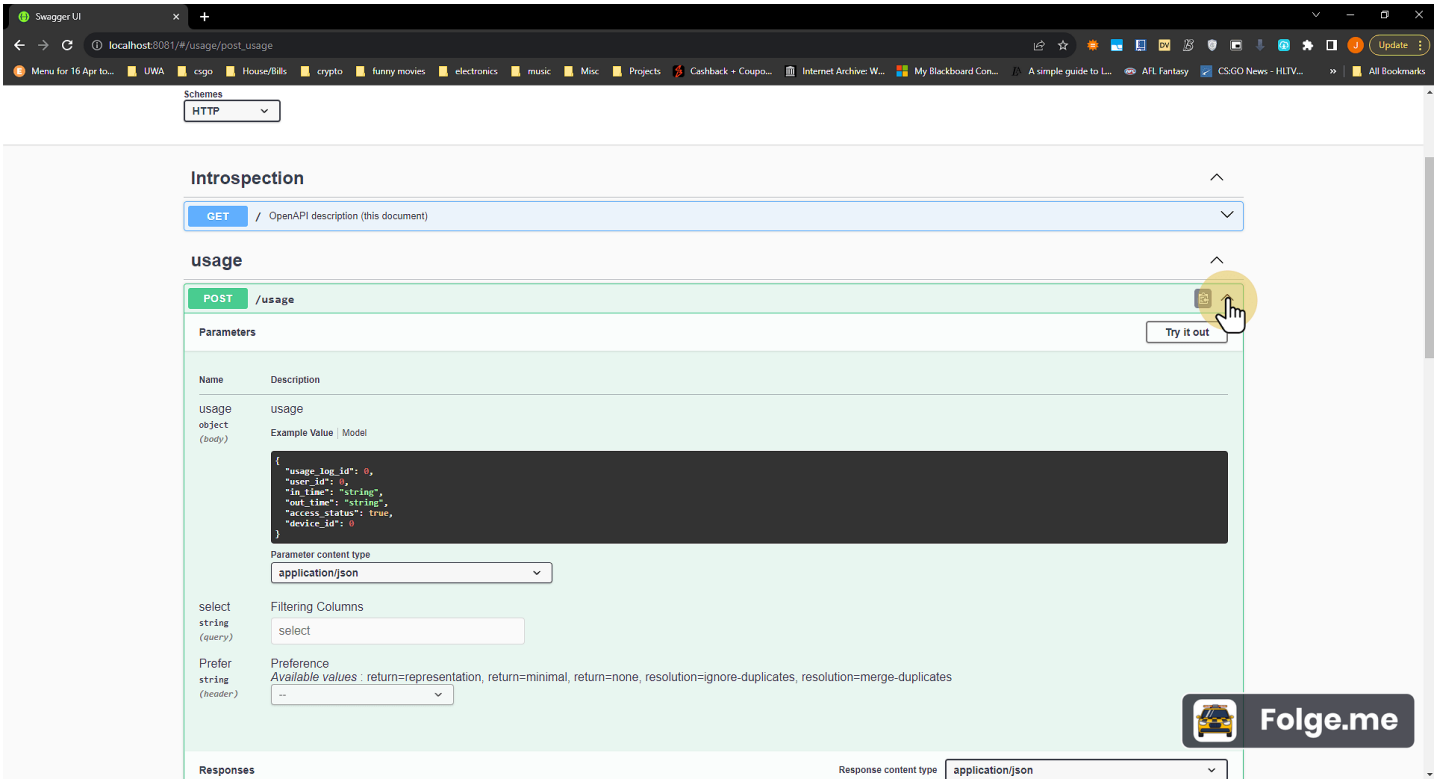
14 Open Docker to see if all the containers are running



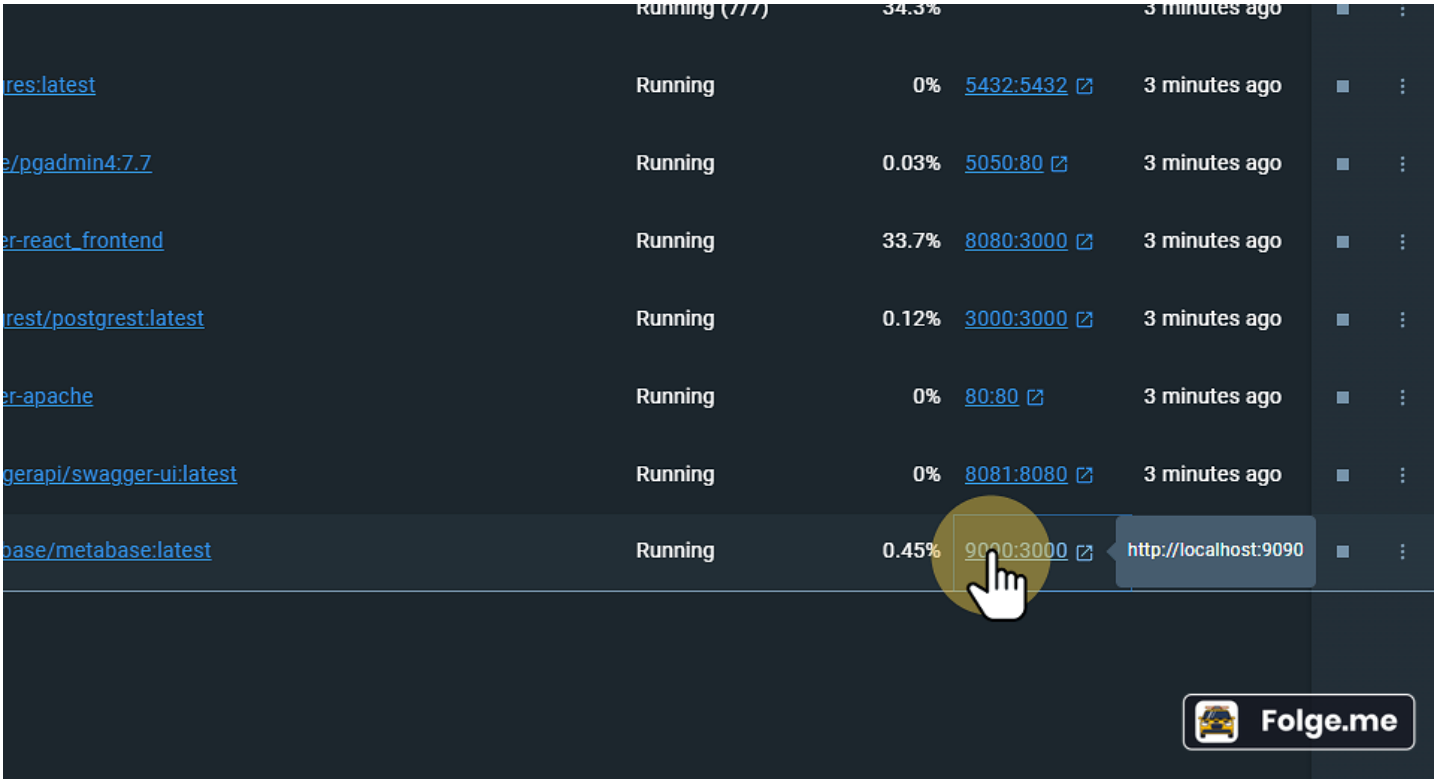
15 Click on the port address of Swagger-UI to open the webpage



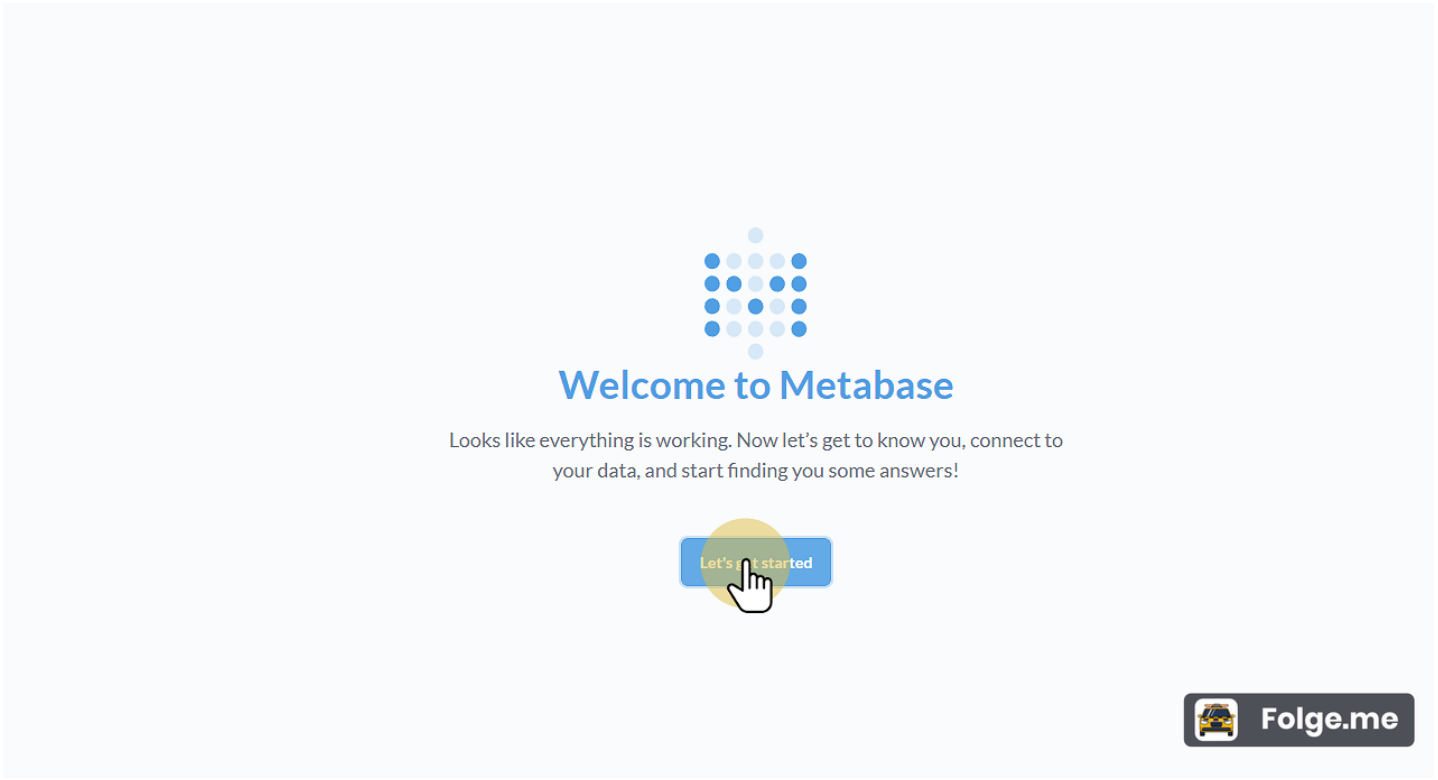
16 Swagger-UI will open the API endpoint webpage in a new browser window



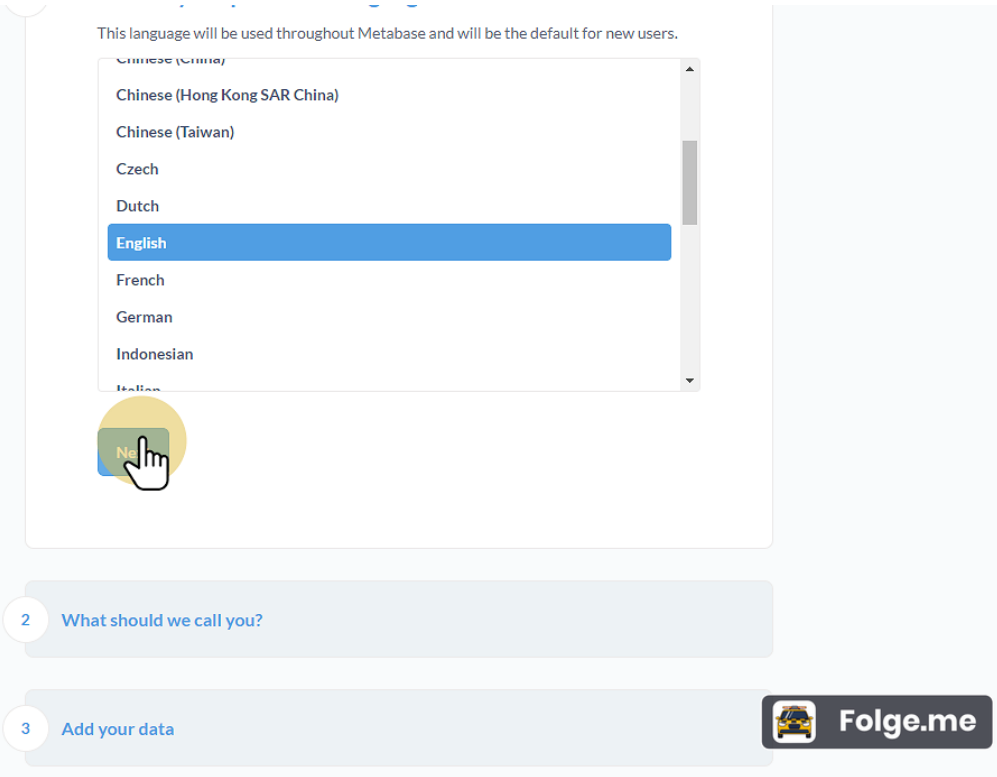
17 In Docker desktop, click on the metbase port address to open the Metabase webpage



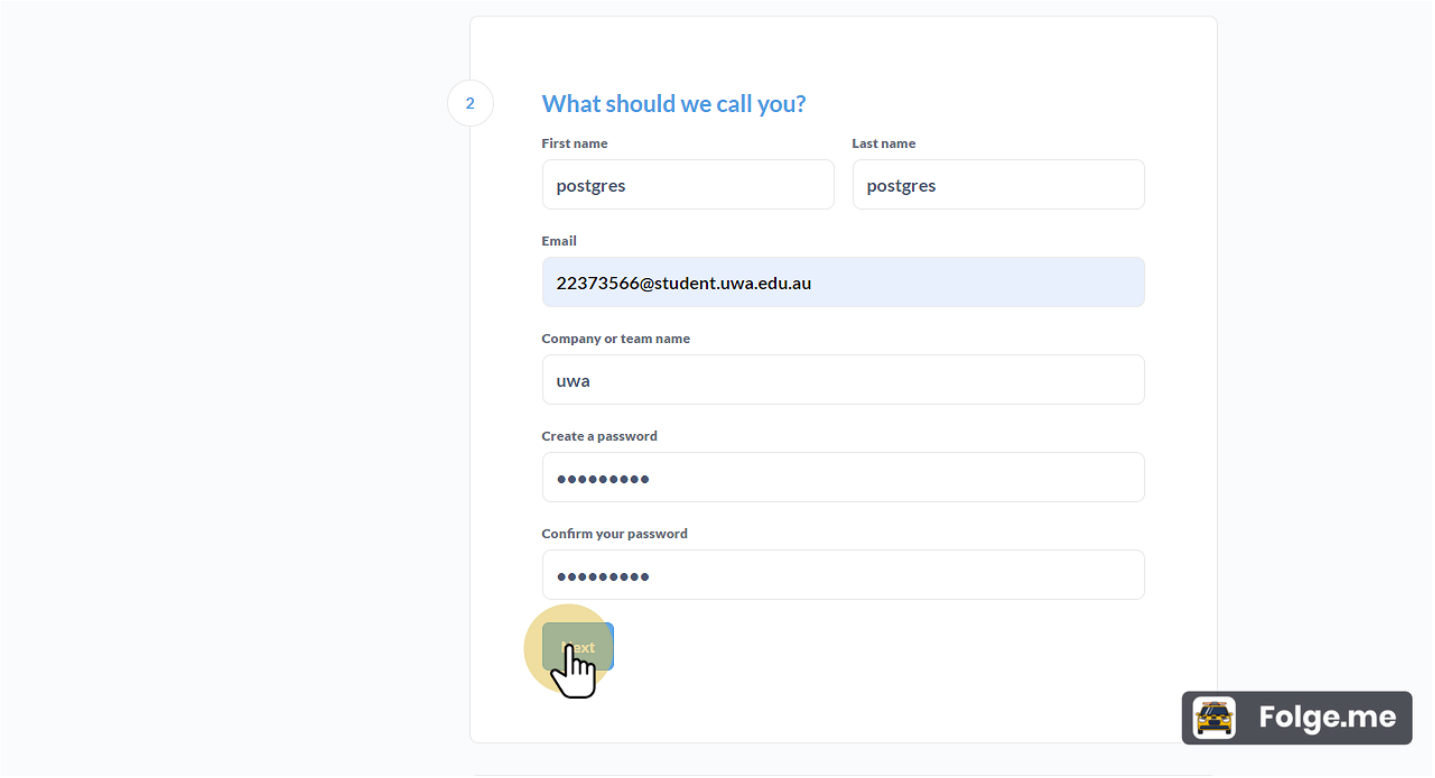
18


Welcome to Metabase
Looks like everything is working. Now let's get to know you, connect to your data, and start finding you some answers!
Let's get started
Folge.me

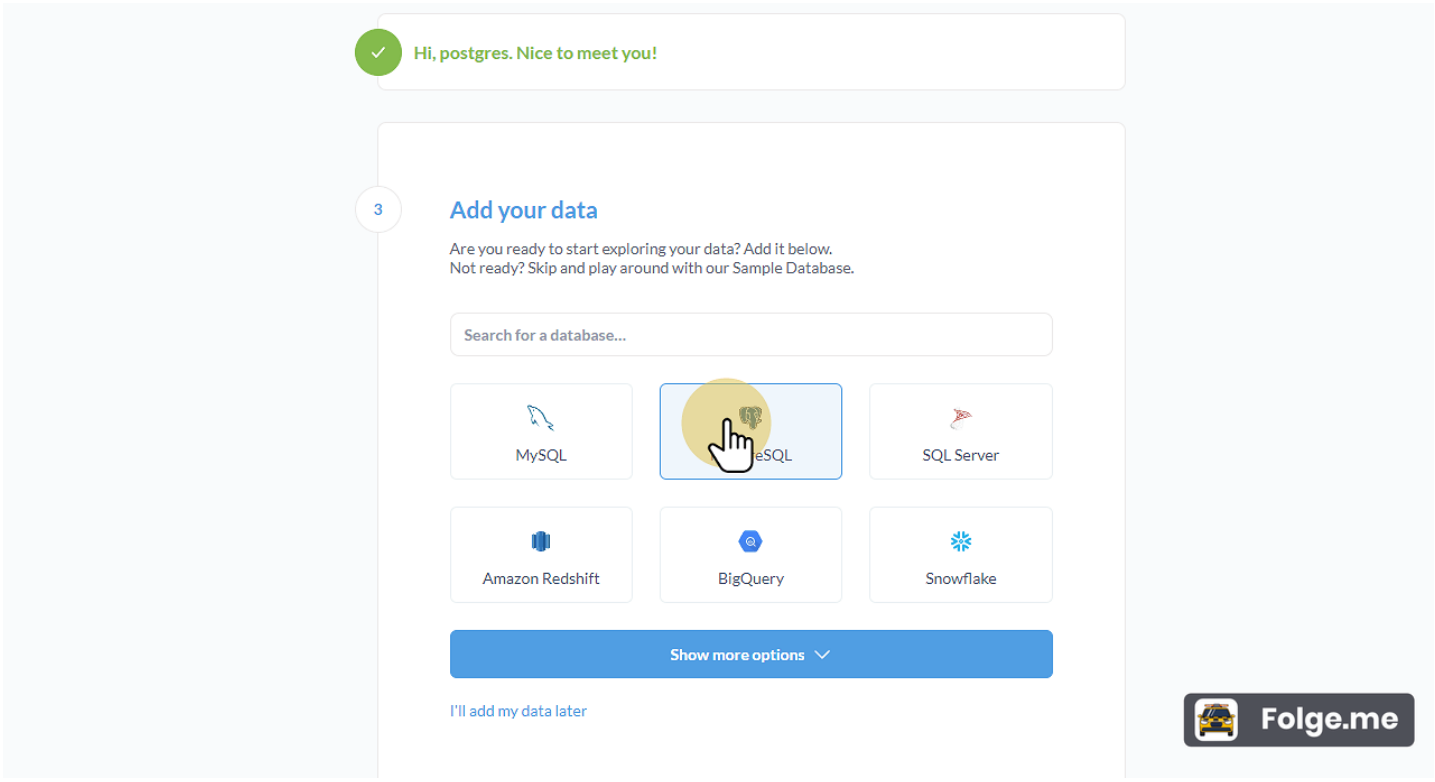
19


This language will be used throughout Metabase and will be the default for new users.
Chinese (Hong Kong SAR China)
Chinese (Taiwan)
Czech
Dutch
English
French
German
Indonesian
2 What should we call you?
3 Add your data
Folge.me

20 Fill in personal details



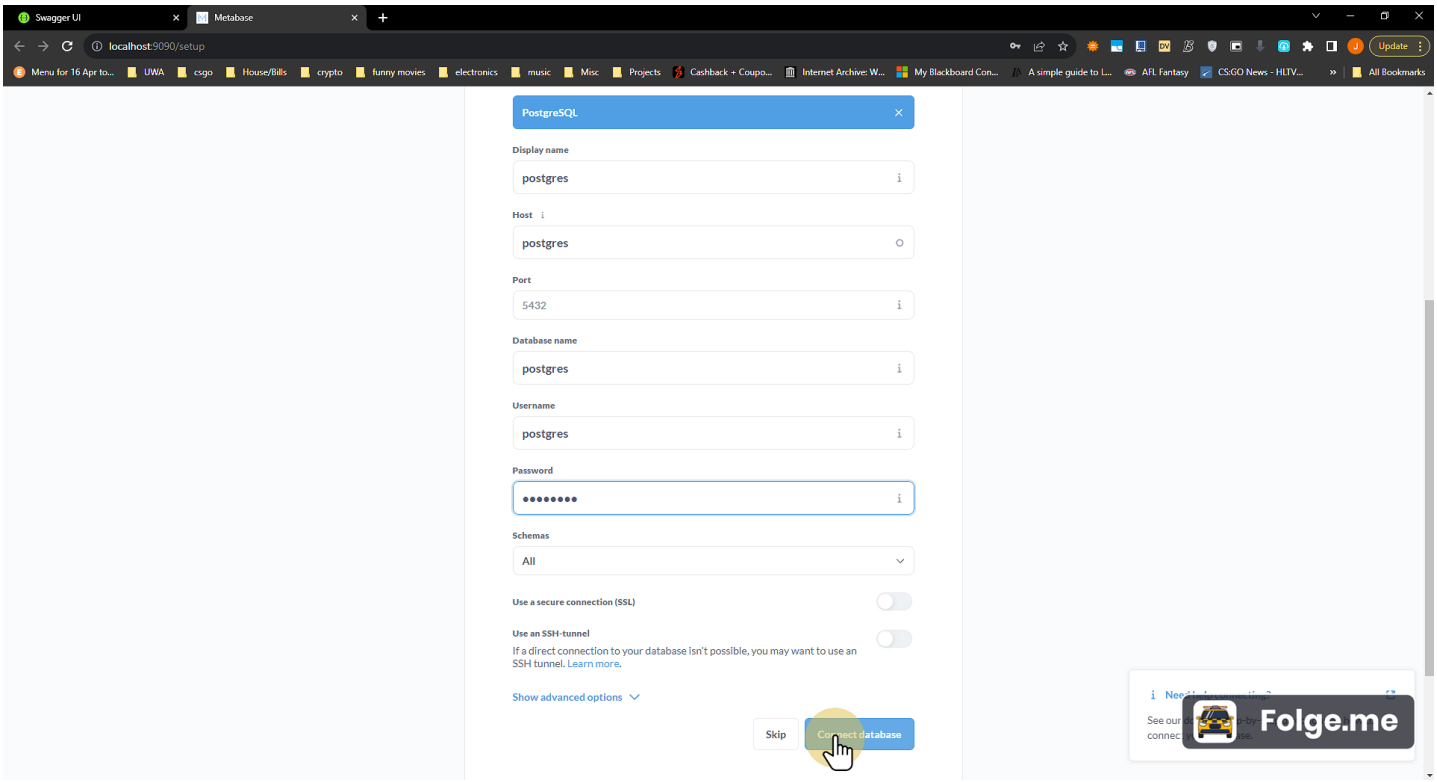
21 Select the PostgreSQL database



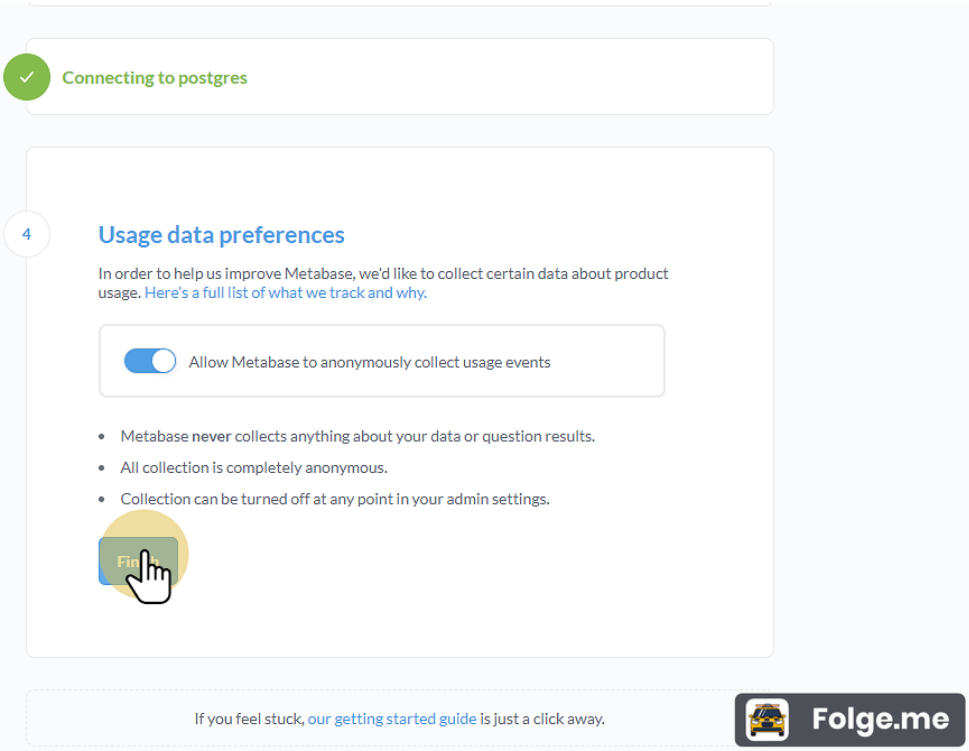
22 Fill out database details.

Display name : ANFF web server
Host : postgres
Port : 5432
Database name : postgres
Username : postgres
Password : postgres

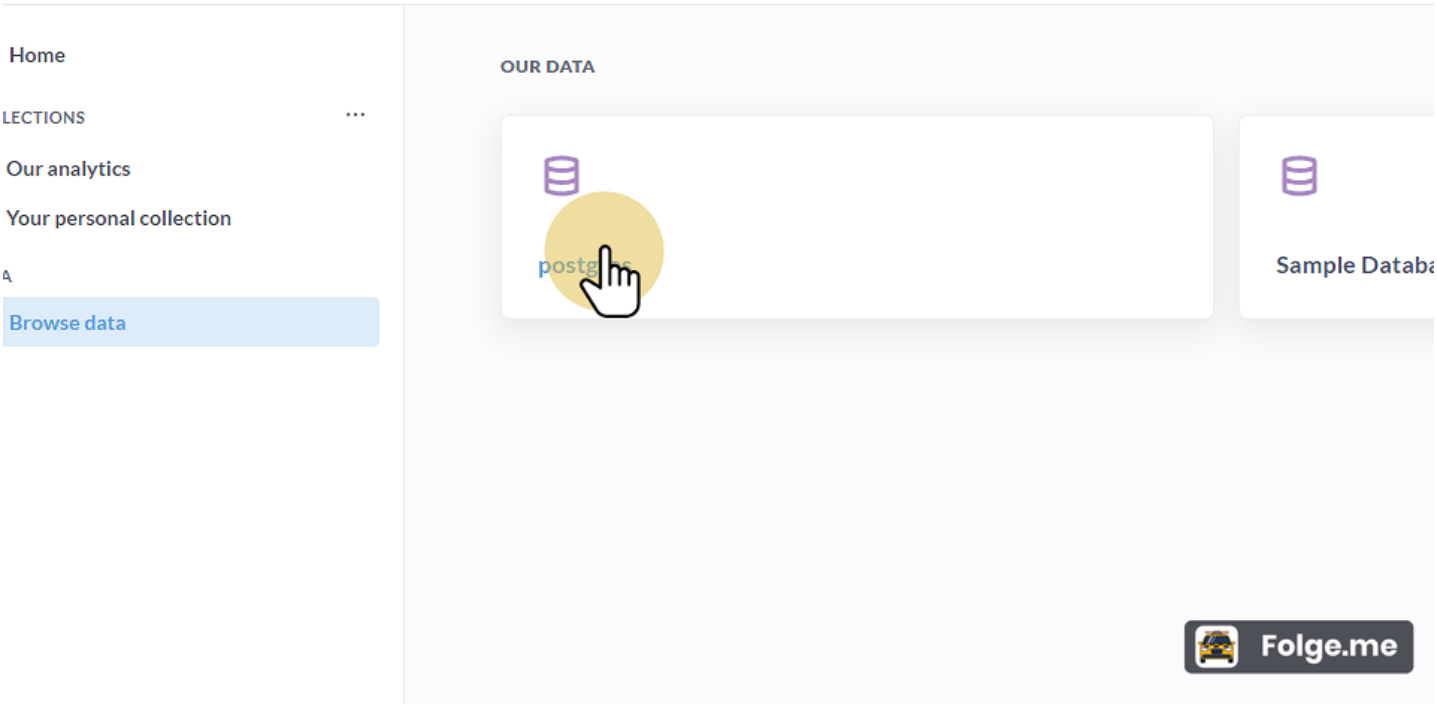
These can be changed in the .env file



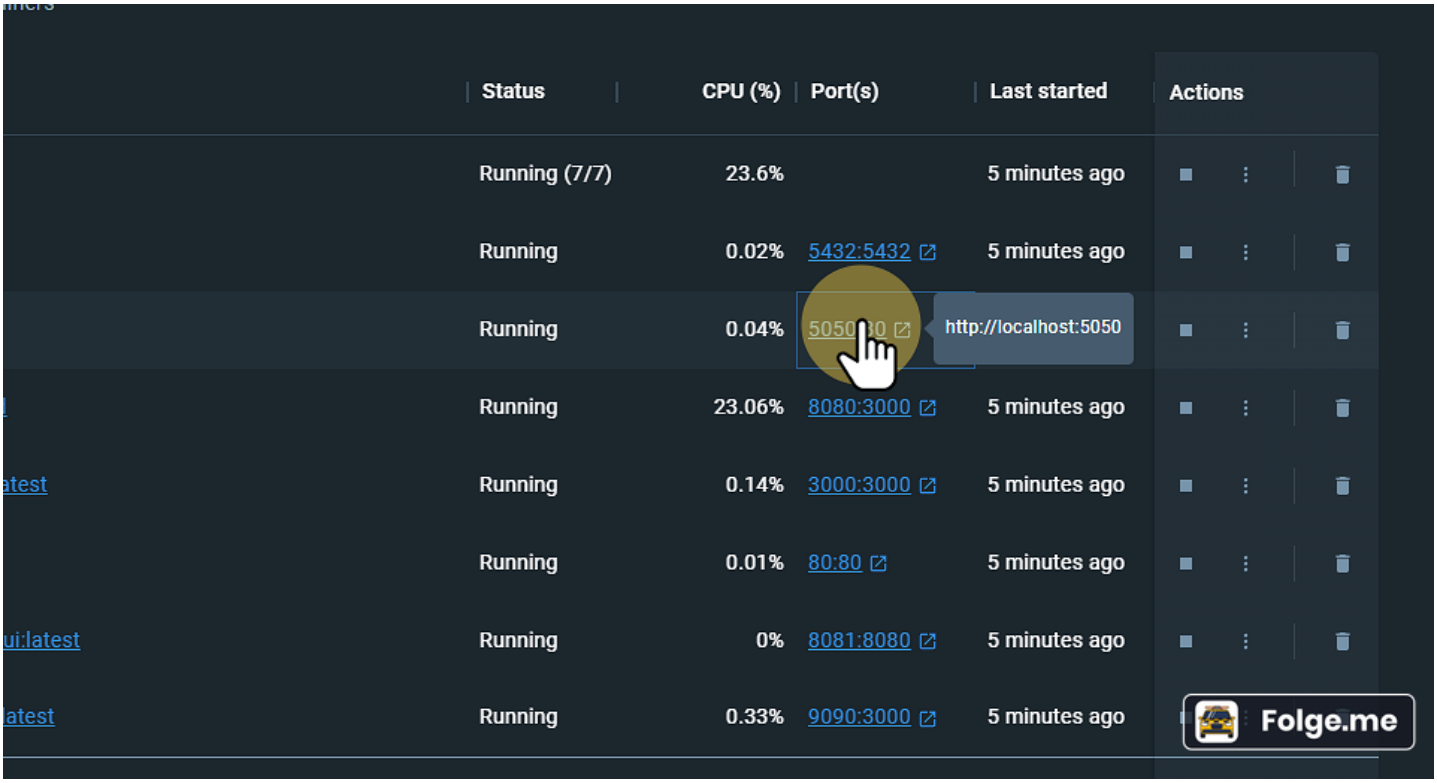
23 Follow the prompts



24 Navigate to the correct database

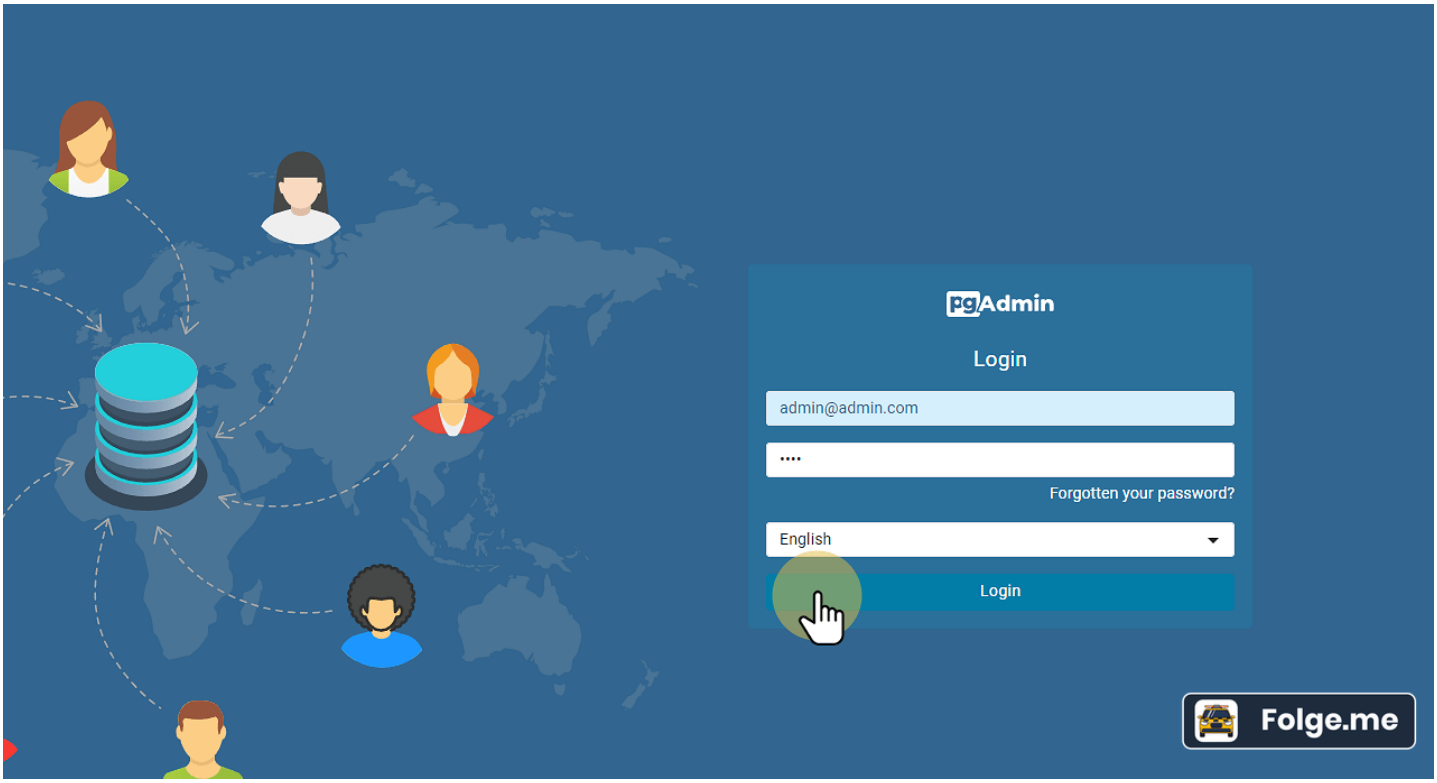


25 Open docker and click on the PGadmin port address to open the PGadmin webpage

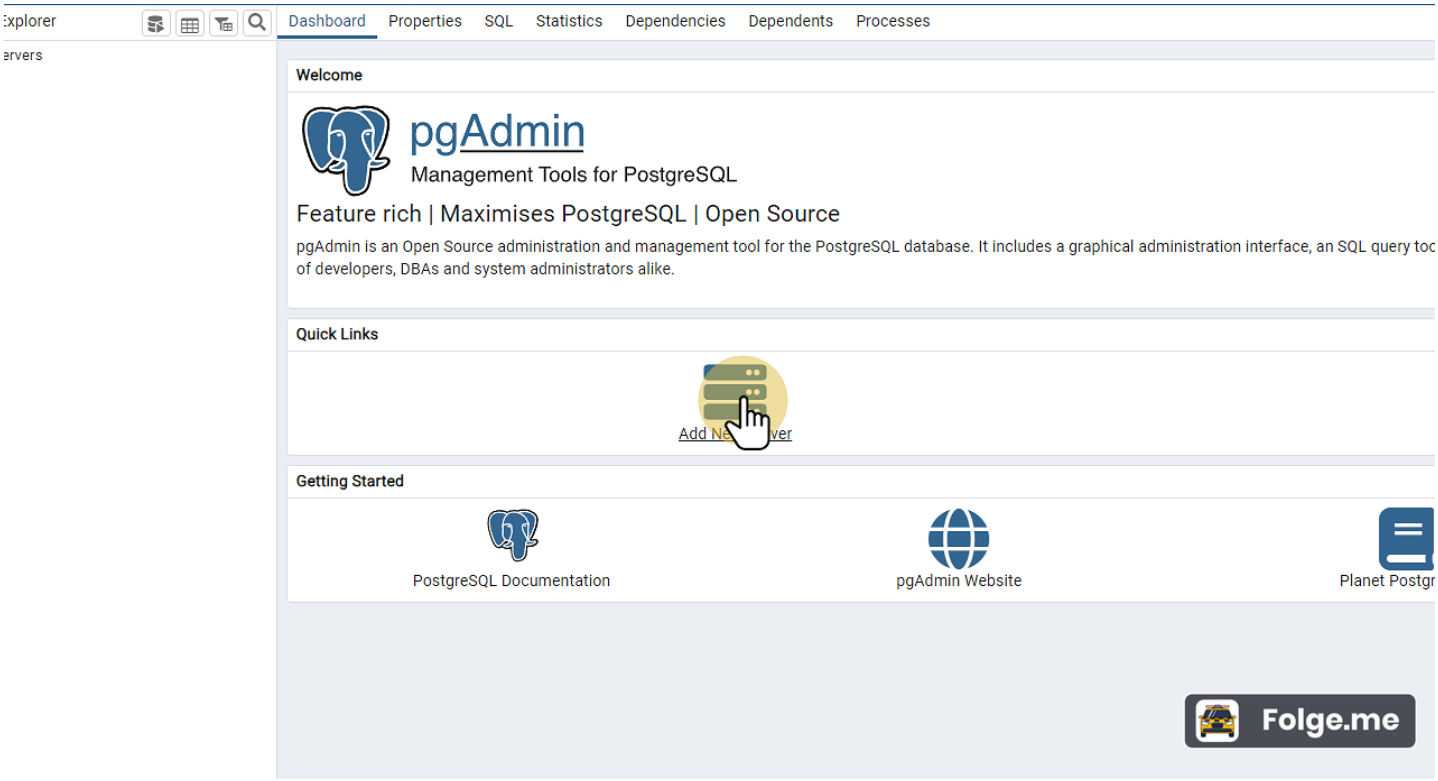


26 FIll out the log in details

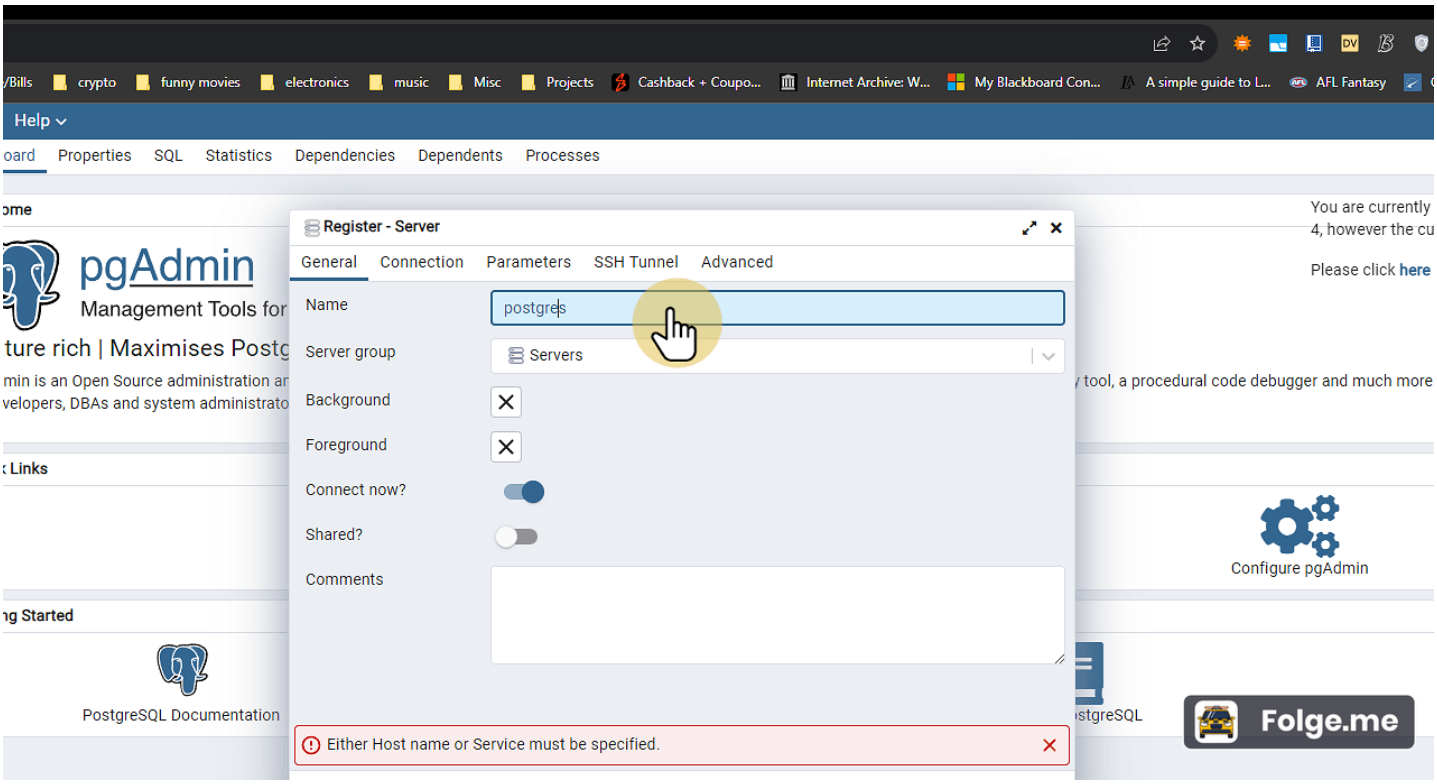
Username : admin@admin.com
PW : root



27 Add server



28 Fill out server name



29 FIll in the server details.

Host name/address : postgres
Username : postgres
Password : postgres