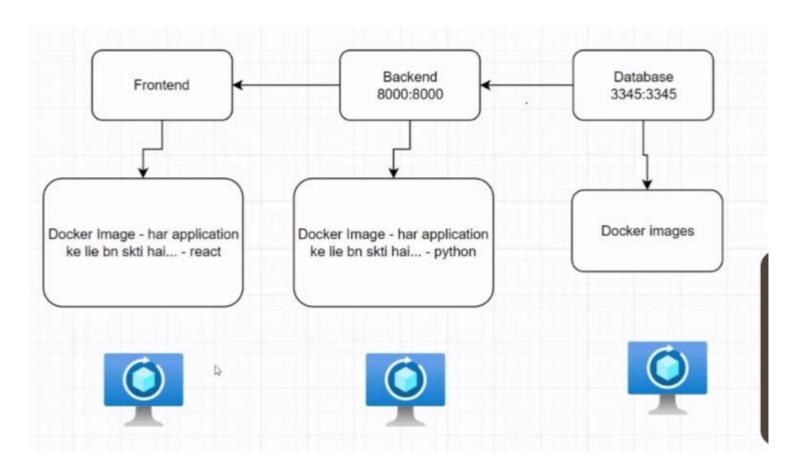
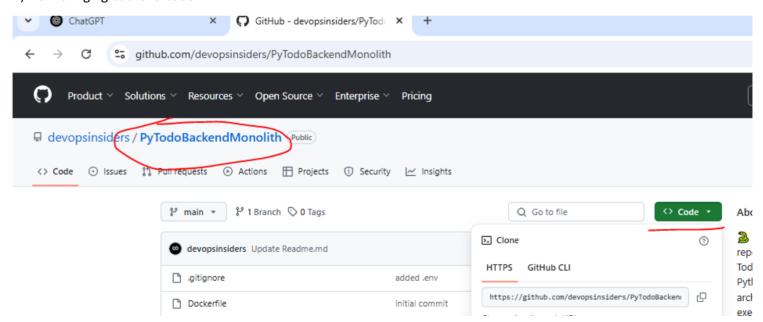
28 September 20204



1) Now bringing backend code



git clone https://github.com/devopsinsiders/PyTodoBackendMonolith.git

```
azureuser@vmdocker: $ git clone https://github.com/devopsinsiders/PyTodoBackendMonolith.git
Cloning into 'PyTodoBackendMonolith'...
remote: Enumerating objects: 59, done.
remote: Counting objects: 100% (59/59), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 59 (delta 30), reused 21 (delta 5), pack-reused 0 (from 0)
Receiving objects: 100% (59/59), 14.69 KiB | 1.33 MiB/s, done.
Resolving deltas: 100% (30/30), done.
azureuser@vmdocker: $ ls
PyTodoBackendMonolith ReactTodoUIMonolith snap
azureuser@vmdocker: $
```

2) cd PyTodoBackendMonolith/

Is

```
azureuser@vmdocker:~$ cd PyTodoBackendMonolith/
azureuser@vmdocker:~/PyTodoBackendMonolith$ ls
Dockerfile Readme.md app.py requirements.txt
```

3) So we have a Dockerfile into it also

azureuser@vmdocker: ~/PyTodoBackendMonolith

GNU nano 7.2

Use the official Python image as the base image

FROM python:3.9

Set the working directory in the container

WORKDIR /app

Copy the application files into the container

COPY . .

Install necessary packages

RUN apt-get update && apt-get install -y unixodbc unixodbc-dev

RUN curl nttps://packages.microsoft.com/keys/microsoft.asc | apt-key add
RUN curl https://packages.microsoft.com/config/debian/10/prod.list > /etc/apt/sources.list.d/mssql-release.list

RUN ACCEPT_EULA=Y apt-get install -y msodbcsql17

RUN pip install -r requirements.txt

Start the FastAPI application

CMD ["uvicorn", "app:app", "--host", "0.0.0.0", "--port", "8000"]

4) Now editing docker file to create custom image

```
# Use the official Python image as the base image

# ROM python:3.9.20

# Set the working directory in the container

# Copy the application files into the container

# Copy the application files into the container

# Copy the application files into the container

# Install necessary packages

# RUN apt-get update && apt-get install -y unixodbc unixodbc-dev

# RUN curl https://packages.microsoft.com/keys/microsoft.asc | apt-key add -

# RUN curl https://packages.microsoft.com/config/debian/10/prod.list > /etc/apt/sources.list.d/mssql-release.list

# RUN ACCEPT_EULA=Y apt-get install -y msodbcsql17

# RUN pip install -r requirements.txt

# Start the FastAPI application

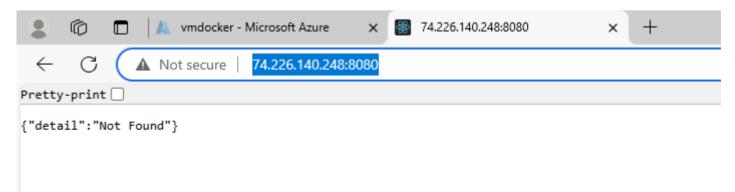
## COMD ["uvicorn", "app:app", "--host", "0.0.0.0", "--port", "8000"]
```

5) docker images

```
root@vmdocker:/home/azureuser/PyTodoBackendMonolith# docker images
                  TAG
                            IMAGE ID
REPOSITORY
                                           CREATED
                                                             SIZE
                                           17 seconds ago
                            8badf51cfb98
pytodo
                  latest
                                                             1.11GB
bahutpatliimage
                            d639e855c309
                  latest
                                          29 hours ago
                                                             50.4MB
patliimage
                            94df29409897
                  latest
                                           29 hours ago
                                                             195MB
                                           31 hours ago
todoui
                  latest
                            8cfbe43bc4ca
                                                             1.34GB
                                           34 hours ago
<none>
                            fea1e545debc
                                                             1.34GB
                  <none>
<none>
                            4d09465a1759
                                           2 days ago
                                                             1.34GB
                  <none>
<none>
                  <none>
                            f1ebcad628d3
                                           3 days ago
                                                             1.34GB
root@vmdocker:/home/azureuser/PyTodoBackendMonolith# nano Dockerfile
root@vmdocker:/home/azureuser/PyTodoBackendMonolith#
```

6) docker run -d -p 8080:8000 pytodo uvicorn app:app --host 0.0.0.0 --port 8000 = running image to create and run container

74.226.140.248:8080



7) Docker file is useful to make any command as default so

root@vmdocker: /home/azureuser/PyTodoBackendMonolith

```
# Use the official Python image as the base image

# FROM python:3.9.20

# Set the working directory in the container

# Copy the application files into the container

# Copy the application files into the container

# Install necessary packages

# UN apt-get update && apt-get install -y unixodbc unixodbc-dev

# RUN curl https://packages.microsoft.com/keys/microsoft.asc | apt-key add -

# RUN curl https://packages.microsoft.com/config/debian/10/prod.list > /etc/apt/sources.list.d/mssql-release.list

# RUN ACCEPT_EULA=Y apt-get install -y msodbcsql17

# Start the FastAPI application

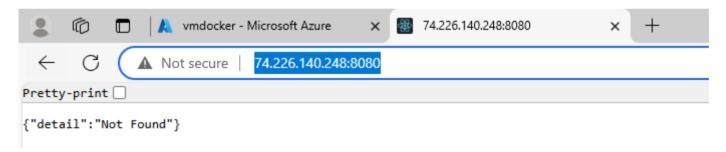
# Start the FastAPI application

# CMD ["uvicorn", "app:app", "--host", "0.0.0.0", "--port", "8000"]
```

docker run -d -p 8000:8000 pytodo =

root@vmdocker:/home/azureuser/PyTodoBackendMonolith# docker run -d -p 8000:8000 pytodo 66d2a20f7c3e551e458cc1c60aa1019e960f0ca49d4790ab1671753ddb4a2304

74.226.140.248:8080



AGENDA – SQL SERVER DOCKER IMAGE

1) SEARCH - https://hub.docker.com/r/microsoft/mssql-server



) Searc

Explore / microsoft / mssql-server



Microsoft SQL Server - Ubuntu based images Overified Publisher

mssgl/server

By Microsoft - Updated 11 months ago

Official images for Microsoft SQL Server based on Ubuntu

☆158

Overview

Featured Tags

 2022-latest docker pull mcr.microsoft.com/mssql/server:2022-latest

 2019-latest docker pull mcr.microsoft.com/mssql/server:2019-latest

 2017-latest docker pull mcr.microsoft.com/mssql/server:2017-latest

2) docker run -e "ACCEPT_EULA=Y" -e "MSSQL_SA_PASSWORD=Test@123" -p 1433:1433 -d mcr.microsoft.com/mssql/server:2022-latest

docker ps

root@vmdocker:/home/azureuser/PyTodoBackendMonolith# docker run -e "ACCEPT_EULA=Y" -e "MSSQL_SA_PASSWORD=Test@123" -p 1433:1433 -d mcr.microsoft.com/mssql/server:2022-latest
Unable to find image 'mcr.microsoft.com/mssql/server:2022-latest' locally
2022-latest: Pulling from mssql/server
866752e6fd464f: Pull complete
866752e6fd464f: Pull complete
866752e6fd464f: Pull complete
9043836799c: Pull complete
01gest: sha256:ea73825f3d88a23c355ac2f9fdc6bd960fec90171c12c572109b36a558f77bb8
Status: Downloaded newer image for mcr.microsoft.com/mssql/server:2022-latest
90433d3d9445fa82b8822c23af5975a66d06d67d174f73582e5b99le66b1caee9
00ckerfile Readme.md app.py requirements.txt
root@vmdocker:/home/azureuser/PyTodoBackendMonolith# docker ns
CONTAINER ID INMAGE
00M4ND
CREATED
STATUS
PORTS
NAMES
90430d3d9448 mcr.microsoft.com/mssql/server:2022-latest
90430d3d9448 mcr.microsoft.com/mssql/server:2022-latest
90430d3d9448 mcr.microsoft.com/mssql/server:2022-latest
90430d3d948 mcr.microsoft.com/mssql/server:2022-latest
90480d3d3d948 mcr.microsoft.com/mssql/server:2022-latest
90480d3d9488 mcr.microsoft.com/mssql/server:2022-latest
90480d3d9488 mcr.microsoft.com/mssql/server:2022-latest
90480d3d9488 mcr.microsoft.com/mssql/server:2022-latest
90480d3d9488 mcr.micro

3) docker logs <container id> = docker logs b0d3d3d50448

4)



Learn Microsoft

https://learn.microsoft.com > Learn > SQL > SQL Server :

Docker: Install Containers for SQL Server on Linux

20 Dec 2024 — This quickstart shows how to use Docker to run the SQL Server Linux container images. You connect to a database and run a query.

Configure and Customize SQL...

Password Policy

5) docker exec -it sql1 "bash" = docker exec -it b0d3d3d50448 "bash"

Class over as sql configuration is not easy