Docker compose install :

sudo curl -L "https://github.com/docker/compose/releases/download/1.24.1/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

docker-compose --version

app.py

import time

import redis

from flask import Flask

app = Flask(\_\_name\_\_)

cache = redis.Redis(host='redis', port=6379)

def get\_hit\_count():

retries = 5

while True:

try:

return cache.incr('hits')

except redis.exceptions.ConnectionError as exc:

if retries == 0:

raise exc

retries -= 1

time.sleep(0.5)

@app.route('/')

def hello():

count = get\_hit\_count()

return 'Hello World! I have been seen {} times.\n'.format(count)

requirements.txt

flask

redis

Step 2: Create a Dockerfile

Dockerfile

FROM python:3.7-alpine

WORKDIR /code

ENV FLASK\_APP app.py

ENV FLASK\_RUN\_HOST 0.0.0.0

RUN apk add --no-cache gcc musl-dev linux-headers

COPY requirements.txt requirements.txt

RUN pip install -r requirements.txt

COPY . .

CMD ["flask", "run"]

## Step 3: Define services in a Compose file

version: '3'

services:

web:

build: .

ports:

- "5000:5000"

redis:

image: "redis:alpine"

docker-compose.yml

## Step 4: Build and run your app with Compose

docker-compose up

Enter http://localhost:5000/ in a browser to see the application running.