answer.md 2025-09-08

Dockerfile

```
networks:
 todo-net:
services:
 webapp:
   build: ./todo-webapp
    image: "todo-webapp:release-3.1"
    container_name: todo-webapp
    stdin_open: true
   ports:
      - "3000:3000"
    networks:
      - todo-net
 service:
   build: ./todo
    image: "todo-service:release-3"
    container_name: todo-service
    networks:
      - todo-net
    environment:
      NOTIFICATION_HOST: notification
      REDIS_HOST: redis
 notification:
    build: ./todo-notification
    image: "todo-notification:release-1.1"
    container_name: notification-service
    expose:
      - "9000"
    networks:
      - todo-net
    environment:
      REDIS HOST: redis
 redis:
   image: "redis"
   container_name: redis
    networks:
      - todo-net
 api-gateway:
   build: .nginx
    container_name: api-gateway
    networks:
      - todo-net
    ports:
      - "8000:8000"
```

2025-09-08 answer.md

Docker compose up -d

```
PS C:\Users\Vivobook\github\my-chula-courses\2110415-soft-def-sys\activity03> docker compose up -d
! service Warning pull access denied for todo-service, repository does not exist or may require 'docker login'
#1 [internal] load local bake definitions
#1 reading from stdin 2.30kB done
#1 DONE 0.0s
#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 225B 0.0s done
#3 [internal] load metadata for docker.io/library/python:3.7-buster
#4 [auth] library/python:pull token for registry-1.docker.io #4 DONE 0.0s
#3 [internal] load metadata for docker.io/library/python:3.7-buster
#3 DONE 4.0s
#5 [internal] load .dockerignore
#5 transferring context: 2B done
#5 DONE 0.0s
#6 [internal] load build context
#6 transferring context: 583B 0.0s done
#6 DONE 0.0s
#7 [1/4] FROM docker.io/library/python:3.7-buster@sha256:2539f956bcccbac5e4a48ebdafbbbfbd26b4ab56e65b96076ae9cd1188b119b3 #7 resolve docker.io/library/python:3.7-buster@sha256:2539f956bcccbac5e4a48ebdafbbbfbd26b4ab56e65b96076ae9cd1188b119b3 0.0s done #7 CACHED
#8 [2/4] COPY . /root/todo
#8 DONE 0.0s
```

Docker ps -a

PS C:\Users\Vivobook\github\my-chula-courses\2110415-soft-def-sys\activity03> docker ps -a					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
d5a66fd7ec39	todo-service:release-3	"/bin/sh -c 'python"	12 minutes ago	Exited (0) 51 seconds ago	
b75081e66a0f	activity03-api-gateway	"/docker-entrypoint"	12 minutes ago	Up 52 seconds	0.0.0.0:8
2c535f1376a7	todo-notification:release-1.1	"/bin/sh -c 'python"	12 minutes ago	Exited (0) 51 seconds ago	
e					
5f17edc23556	redis	"docker-entrypoint.s"	12 minutes ago	Up 51 seconds	63 7 9/tcp
28816848cc17	todo-webapp:release-3.1	"docker-entrypoint.s"	12 minutes ago	Up 51 seconds	0.0.0.0:3
PS C:\Users\Vivobook\github\my-chula-courses\2110415-soft-def-sys\activity03>					

Todo App

Uber To Do

0 (Tue Sep 08 2025 23:56:30 GMT+0700 (Indochina Time))

pew pew



pew pew

Tue Sep 08 2025 23:55:29 GMT+0700 (Indochina Time)

Add