

Activity 7

A. Your docker-compose.yml

```
version: "3.8"

services:
  todo:
    build: ../todo
    image: "todo:release-3"
    container_name: todo-service
    expose:
      - 8000
    environment:
      REDIS_HOST: redis
    networks:
      - todo-net
    depends_on:
      - redis

  webapp:
    build: ../todo-webapp
    image: "todo-webapp:release-3.1"
    container_name: webapp-service
    stdin_open: true
    ports:
      - 3000:3000

  notification:
    build: ../todo-notification
    image: "todo-notification:release-1.1"
    container_name: notification-service
    expose:
      - 9000
    environment:
      REDIS_HOST: redis
    networks:
      - todo-net
    depends_on:
```

```

- redis

api-gateway:
  build: ../todo-nginx
  image: "todo-nginx:release-1.1"
  container_name: api-gateway-service
  ports:
    - "8000:8000"
  networks:
    - todo-net

redis:
  image: "redis"
  container_name: redis
  networks:
    - todo-net

networks:
  todo-net: {}

```

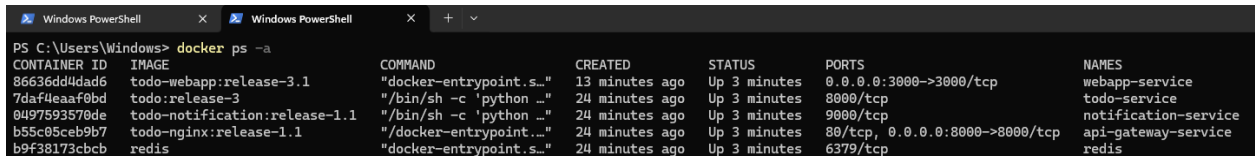
B. Screenshot when you run docker-compose up

```

Windows PowerShell
todo-service INFO: Waiting for application startup.
todo-service INFO: Application startup complete.
todo-service INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
webapp-service wdsj: Project is running at http://172.20.0.2/
webapp-service wdsj: webpack output is served from
webapp-service wdsj: Content not from webpack is served from /root/todo-webapp/public
webapp-service wdsj: 404s will fallback to /
webapp-service Starting the development server...
webapp-service
webapp-service Browserslist: caniuse-lite is outdated. Please run the following command: `npx browserslist --update-db`
webapp-service Compiled successfully!
webapp-service You can now view todo-webapp in the browser.
webapp-service
webapp-service Local: http://localhost:3000
webapp-service On Your Network: http://172.20.0.2:3000
webapp-service
webapp-service Note that the development build is not optimized.
webapp-service To create a production build, use yarn build.
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: using the "epoll" event method
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: nginx/1.27.1
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: OS: Linux 5.15.153.1-microsoft-standard-WSL2
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker processes
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 22
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 23
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 24
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 25
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 26
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 27
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 28
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 29
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 30
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 31
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 32
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 33
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 34
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 35
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 36
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 37
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 38
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 39
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 40
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 41
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 42
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 43
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 44
api-gateway-service 2024/10/02 07:24:41 [notice] 1#1: start worker process 45

```

C. Screenshot after all containers are running and you use command: docker ps -a



CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
86636dd4dad6	todo-webapp:release-3.1	"docker-entrypoint.s..."	13 minutes ago	Up 3 minutes	0.0.0.0:3000->3000/tcp	webapp-service
7daf4eaaaf0bd	todo:release-3	"/bin/sh -c 'python _..."	24 minutes ago	Up 3 minutes	8000/tcp	todo-service
0497593578de	todo-notification:release-1.1	"/bin/sh -c 'python _..."	24 minutes ago	Up 3 minutes	9000/tcp	notification-service
b55c05ceb9b7	todo-nginx:release-1.1	"/docker-entrypoint..."	24 minutes ago	Up 3 minutes	80/tcp, 0.0.0.0:8000->8000/tcp	api-gateway-service
b9f38173cbcb	redis	"docker-entrypoint.s..."	24 minutes ago	Up 3 minutes	6379/tcp	redis

D. Screenshot of browser connecting to todo-webapp with some todo items

