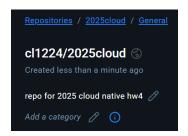
Cloud Native HW4 R13922213 梁正

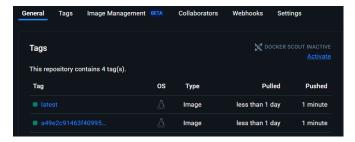
Github Repo: https://github.com/2025-Spring-CloudNative/cloud native hw4

1. Docker Hub

Create a repo on Docker Hub named 2025cloud



More than two images available



2. Git Repo & README & Dockerfile

• Dockerfile in Git repo

```
Dockerfile > ...

FROM node:22-alpine AS base

WORKDIR /app

COPY package*.json ./

RUN npm ci --production

COPY . .

EXPOSE 3000

CMD ["npm", "run", "local"]
```

Build docker image

```
PS C:\Users\user\Desktop\github\cloud_native_hw4> docker build -t 2025cloud .

[+] Building 2.2s (10/10) FINISHED

=> [internal] load build definition from Dockerfile

=> => transferring dockerfile: 1868

=> [internal] load .dockerignore

=> => transferring context: 2B

=> [internal] load metadata for docker.io/library/node:22-alpine

=> [1/5] FROM docker.io/library/node:22-alpine@sha256:adlaedbcc1b0575074a91ac146d6956476c1f9985994810e4ee02efd932a68fd

=> [internal] load build context

=> => transferring context: 336.64kB

=> CACHED [2/5] WORKDIR /app

=> CACHED [3/5] COPY package*.json ./

=> CACHED [4/5] RUN npm ci --production

=> [5/5] COPY .

=> exporting to image

=> => exporting layers

=> writing image sha256:370f7d2f72acdbe7960ff56db90226f54ee9f6764d83496dc798fa5cdef67dae

=> naming to docker.io/library/2025cloud
```

Run the docker container from built image

PS C:\Users\user\Desktop\github\cloud_native_hw4> docker run -dp 3000:3000 2025cloud 2540b17755bfc791e03297f0afc2973426fbb7b39df7038fca078a0ced63990d

With flag –d and –p, the container is run in detached mode and exposes port 3000

3. GitHub Action Integration

Github Action for docker build

Link: https://github.com/2025-Spring-CloudNative/cloud native <a href="https://github.com/2025-Spring-CloudNative/cloud-native/clo

Github Action for docker push

Link: https://github.com/2025-Spring-CloudNative/cloud native https://github.com/2025-Spring-CloudNative/clou

Failed demo PR due to error in Dockerfile

PR: https://github.com/2025-Spring-CloudNative/cloud_native_hw4/pull/7

Link: https://github.com/2025-Spring-CloudNative/cloud_native_hw4/actions/runs/14830404065

4. Documentation

See README.md for detailed explaination

