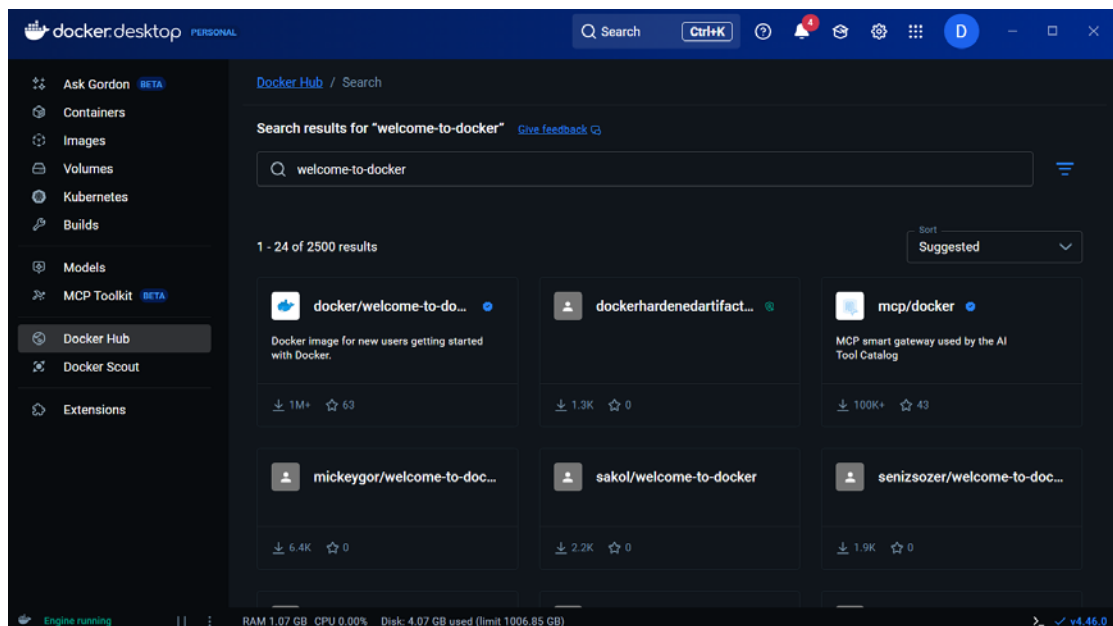
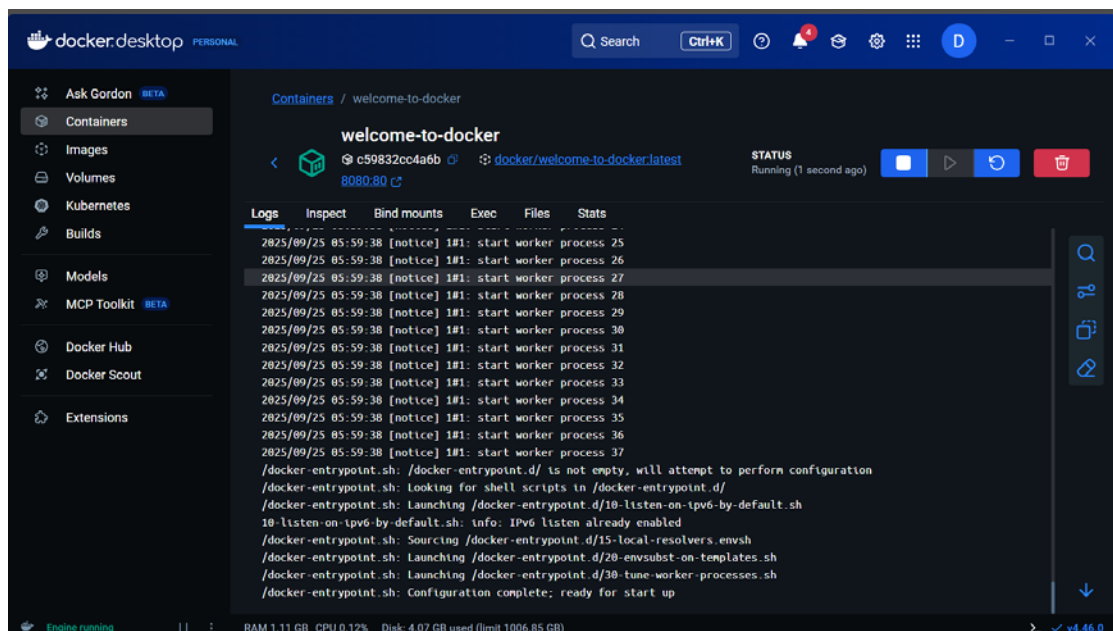


a. Docker basics

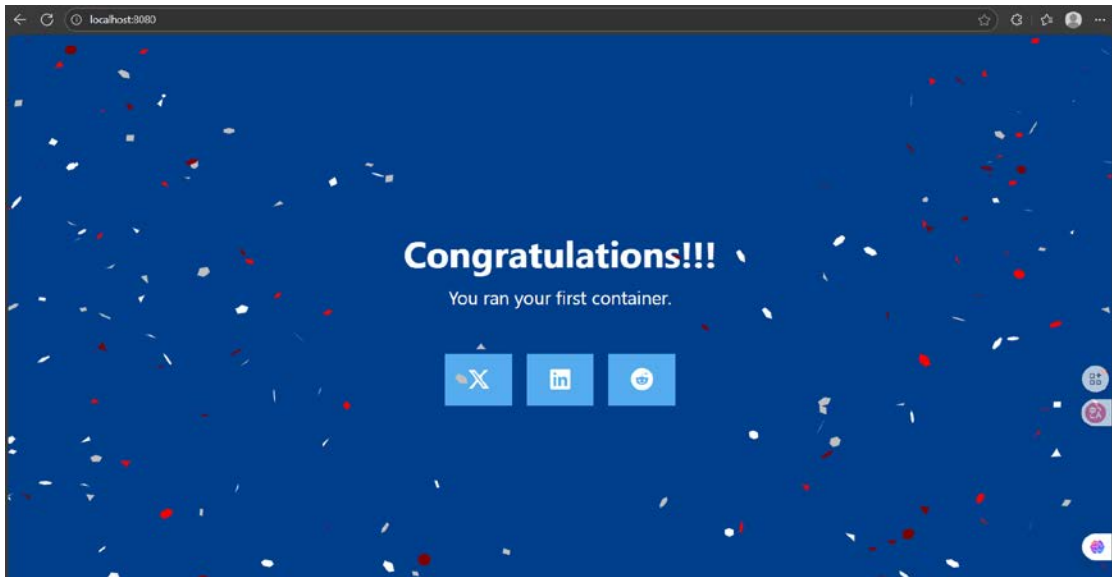
1. search for welcome-to-docker in Docker hub



2. start a new welcome-to-docker container

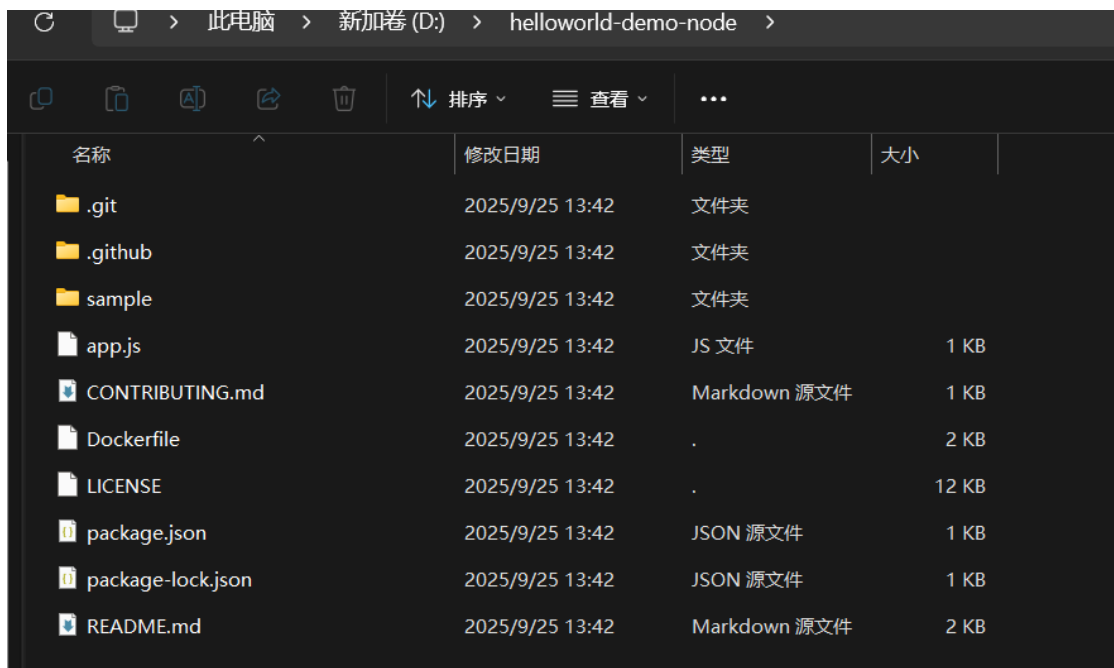


3. access <https://localhost:8080> to have a try



b. try with repository

1. git clone from <https://github.com/docker-samples/helloworld-demo-node>



2. build a Docker image

```
diluo@Wzm:/mnt/d/helloworld-demo-node$ docker build -t diluo250/docker-quickstart .
[+] Building 175.8s (17/17) FINISHED
=> [internal] load build definition from Dockerfile                                docker:default
=> => transferring dockerfile: 1.10kB                                           0.1s
=> resolve image config for docker.io/docker/dockerfile:1                      57.7s
=> [auth] docker/dockerfile:pull token for registry-1.docker.io                0.0s
=> [auth] docker/dockerfile:pull token for registry-1.docker.io                0.0s
=> CACHED docker-image://docker.io/docker/dockerfile:1@sha256:dabfc0969b935b2088555ace70ee69a5261af8a8f1b4df97b 57.4s
=> => resolve docker.io/docker/dockerfile:1@sha256:dabfc0969b935b2088555ace70ee69a5261af8a8f1b4df97b9e7fbcf6722 57.3s
=> [auth] docker/dockerfile:pull token for registry-1.docker.io                0.0s
=> [auth] docker/dockerfile:pull token for registry-1.docker.io                0.0s
=> [internal] load metadata for docker.io/library/node:21.6.2-alpine           57.4s
=> [auth] library/node:pull token for registry-1.docker.io                     0.0s
=> [auth] library/node:pull token for registry-1.docker.io                     0.0s
=> [internal] load .dockerignore                                                 0.1s
=> => transferring context: 2B                                                  0.0s
=> [stage-0 1/4] FROM docker.io/library/node:21.6.2-alpine@sha256:d3271e4bd89ec4d97087060fd4db0c238d9d22fcfad09 0.1s
=> => resolve docker.io/library/node:21.6.2-alpine@sha256:d3271e4bd89ec4d97087060fd4db0c238d9d22fcfad090a73fa9b 0.0s
=> [internal] load build context                                                0.4s
=> => transferring context: 71.73kB                                             0.4s
=> [stage-0 2/4] WORKDIR /usr/src/app                                           0.0s
=> [stage-0 3/4] RUN --mount=type=bind,source=package.json,target=package.json --mount=type=bind,source=pack 1.5s
=> [stage-0 4/4] COPY .                                                         0.1s
=> exporting to image                                                          0.6s
=> => exporting layers                                                         0.3s
=> => exporting manifest sha256:ae321a3c3251729ba11aa8687542bacce4f096e2bba3627c4eb96fa370d5775      0.0s
=> => exporting config sha256:8cbdf2b3df705084fc62f465bee730572e4cdd3c013339a4bc6acb151ef098        0.0s
=> => exporting attestation manifest sha256:98bb2cc436192d85fa440407b1b2a7fef65469de7611438d0da9993711003575 0.0s
=> => exporting manifest list sha256:d6effbc205afc8604856cce76a15cb6f4a4c864983745db3fffd5e820f2d16f4b 0.0s
```

3. list the newly-created image

```
diluo@Wzm:/mnt/d/helloworld-demo-node$ docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
diluo250/docker-quickstart latest        d6effbc205af     17 seconds ago  201MB
n8nio/n8n           latest       c5fe3ff0b79f     5 days ago      1.64GB
docker.gitea.com/gitea 1.24.6      2edc102cbb63     2 weeks ago     258MB
gitea/gitea         latest       2edc102cbb63     2 weeks ago     258MB
mysql               8           e69f136d247e     2 weeks ago     1.07GB
<none>              <none>       6e60ad6d61d8     2 weeks ago     1.07GB
docker/dockerfile    1           dabfc0969b93     3 weeks ago     42.1MB
docker/welcome-to-docker latest       c4d56c24da4f     8 weeks ago     22.2MB
node                 21.6.2-alpine d3271e4bd89e     19 months ago   201MB
```

4. Start a container to test the image

```
diluo@Wzm:/mnt/d/helloworld-demo-node$ docker run -d -p 8080:8080 diluo250/docker-quickstart
037bf517bdb98c3e736de691f9b8ba3071b56a3424f85de0fb6359a44e6649e8
```

5. tag the Docker image and push it to the Docker hub

```
diluo@Wzm:/mnt/d/helloworld-demo-node$ docker tag diluo250/docker-quickstart diluo250/docker-quickstart:1.0
diluo@Wzm:/mnt/d/helloworld-demo-node$ docker push diluo250/docker-quickstart:1.0
The push refers to repository [docker.io/diluo250/docker-quickstart]
5d6e856c2d74: Pushed
4f4fb700ef54: Mounted from n8nio/n8n
4abcf2066143: Mounted from library/node
249f9271d1d1: Mounted from library/node
d7e59129a60c: Pushed
8abeelba73eb: Pushed
2997c4155347: Mounted from library/node
803074618b54: Mounted from library/node
1.0: digest: sha256:d6effbc205afc8604856cce76a15cb6f4a4c864983745db3fffd5e820f2d16f4b size: 856
```

hub

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diluo250/docker-quickstart

Last pushed 1 minute ago · Repository size: 47.1 MB

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TAG

1.0

Last pushed 5 minutes by diluo250

Digest

OS/ARCH

Last pull

Compressed size

ae321a3c3251

linux/amd64

less than 1 day

47.06 MB

docker pull diluo250/docker-quickstart:1.0

Using 0 of 1 private repositories. Get more

Docker commands

To push a new tag to this repository:

docker push diluo250/docker-quickstart:tagname

Public view