

Docker Introduction

1. docker build -t lab4-img:v1 .

```
PS E:\isi\cloud computing\cloud_computing_lab\lab4> docker build -t lab4-img:v1 .
[+] Building 7622.7s (10/10) FINISHED
    => [internal] load build definition from Dockerfile
    => transferring context: 28
    => [internal] load build definition from Dockerfile
    => transferring dockerfile: 32B
    => [internal] load metadata for docker.io/library/python:latest
    [1/5] FROM docker.io/library/python@sha256:1a126607adda46a706e76357c910f36a9f5529fb5764d436a639a4997daceba7
    => resolve docker.io/library/python@sha256:1a126607adda46a706e76357c910f36a9f5529fb5764d436a639a4997daceba7
    => sha256:57d1f1a11a3d34dea150c3f662477e93b4b17af776ed6e148116607f9acerr1a8 50.40MB / 50.40MB
    => sha256:71e126169501d71bbbd0d3c8d9f35836c41660869fe8432ac606341ed21f7adb 7.81MB / 7.81MB
    => sha256:1af28a55c3f320826db8d3f3146a2c19849042877ef679f9e32210aa9a7fac9ef 10.00MB / 10.00MB
    => sha256:1a126607adda46a706e76357c910f36a9f5529fb5764d436a639a4997daceba7 2.36KB / 2.36KB
    => sha256:46e7649920a11584ffe349326b331a2aac195b330a78616d106e9796edd4 13.21MB / 13.21MB
    => sha256:bbf31371d6f4728a565b64c9f67693d2f71c96728a096a81e44f1a8689653a9c4 5.42KB / 5.42KB
    => sha256:03f1c9932170e54fface2382b2550b8052aac3d41f27e66ea1294e2055dd2b2e7 51.83MB / 51.83MB
    => sha256:65b3da15f51811e53c95664d0675a5d78a5329d13d531b4d0ec2a45907a0723 192.25MB / 192.25MB
    => sha256:3e3b947ed83f2a39a813a0a9172cfd571d4c943228a74e833af60e7536cac5 6.15MB / 6.15MB
    => extracting sha256:57d1f1a11a3d34dea150c3f662477e93b4b17af776ed6e148116607f9acerr1a8 1.4B
    => sha256:1f5949921a11584ffe349326b331a2aac195b330a78616d106e9796edd4 13.21MB / 13.21MB
    => extracting sha256:71e126169501d71bbbd0d3c8d9f35836c41660869fe8432ac606341ed21f7adb 0.2%
    => extracting sha256:1af28a55c3f320826db8d3f3146a2c19849042877ef679f9e32210aa9a7fac9ef 0.2%
    => extracting sha256:03f1c9932170e54fface2382b2550b8052aac3d41f27e66ea1294e2055dd2b2e7 1.7%
    => sha256:1c19310130938a755dade05be350e8fc569f1f2191a72b01a357c7523756230e 233B / 233B
    => sha256:51fff63966bf372d6635a5ceba934a628c8bb27c0ff3439e5faf1ab641de987a 0.0%
    => extracting sha256:65b3da15f51811e53c95664d0675a5d78a5329d13d531b4d0ec2a45907a0723 5.2%
    => extracting sha256:3e3b947ed83f2a39a813a0a9172cfd571d4c943228a74e833af60e7536cac5 0.2%
    => extracting sha256:1f5949921a11584ffe349326b331a2aac195b330a78616d106e9796edd4 0.5%
    => extracting sha256:1c19310130938a755dade05be350e8fc569f1f2191a72b01a357c7523756230e 0.0%
    => extracting sha256:51fff63966bf372d6635a5ceba934a628c8bb27c0ff3439e5faf1ab641de987a 0.1%
    => [internal] load build context
    => transferring context: 219B
    => [2/5] RUN mkdir /app
    => [3/5] COPY server.py /app/
    => [4/5] WORKDIR /app
    => [5/5] RUN pip install flask
    => exporting to image
    => exporting layers
    => writing image sha256:b105bcf0e8d2904353a5166a700bb7477802d139d5eab23363865df3b3e3e853e
    => naming to docker.io/library/lab4-img:v1
```

2. docker run -d --name=lab4_v1 -p 9090:8080 lab4-img:v1

```
PS E:\isi\cloud computing\cloud_computing_lab\lab4> docker run -d --name=lab4_v1 -p 9090:8080 lab4-img:v1
c1d519b1d0cea55480ed667642a6f5303b78a611c8b53173ebbf46ef5ef6976
```

