```
[root@localhost ~]# cd lab2/
[root@localhost lab2]# git clone https://github.com/meldafrawi/basic-flask-app
Cloning into 'basic-flask-app'...
remote: Enumerating objects: 32, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 32 (delta 8), reused 8 (delta 8), pack-reused 13
Receiving objects: 100% (32/32), 274.91 KiB | 19.00 KiB/s, done.
Resolving deltas: 100% (8/8), done.
[root@localhost lab2]# touch Dockerfile
[root@localhost lab2]# vi Dockerfile
```

```
FROM alpine:3.10
COPY basic-flask-app /app
WORKDIR /app
RUN apk add --no-cache python2 py2-pip
RUN pip2 install --no-cache -r requirements.txt
ENTRYPOINT ["python"]
CMD ["routes.py"]
```

```
[root@mony ~]# cd lab2
[root@mony lab2]# ls
1 app.py basic-flask-app requirements.txt venv
[root@mony lab2]# cd basic-flask-app/
[root@mony basic-flask-app]# docker build -t iti-flask-lab2 .
[+] Building 3.1s (11/11) FINISHED
                                                                                                 docker:default
=> [internal] load build definition from Dockerfile
 => => transferring dockerfile: 269B
                                                                                                            0.0s
 => [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/alpine:3.10
 => [auth] library/alpine:pull token for registry-1.docker.io
 => [internal] load build context
 => => transferring context: 6.15kB
 => [1/5] FROM docker.io/library/alpine:3.10@sha256:451eee8bedcb2f029756dc3e9d73bab0e7943c1ac
=> CACHED [2/5] COPY . /app
=> CACHED [3/5] WORKDIR /app
=> CACHED [4/5] RUN apk add --no-cache python2 py2-pip
                                                                                                            0.0s
=> CACHED [5/5] RUN pip2 install --no-cache -r requirements.txt
                                                                                                            0.0s
=> exporting to image
                                                                                                            0.05
 => => exporting layers
                                                                                                            0.0s
 => => writing image sha256:8c264b4adfff87e1c9cd3a419bdcbf63ccf76ef9cd1d7509de6142afbf28c865
                                                                                                            0.0s
 => => naming to docker.io/library/iti-flask-lab2
                                                                                                            0.0s
[root@mony basic-flask-app]#
```

```
proxy: listen tcp4 0.0.0.0:80: bind: address already in use. [root@mony basic-flask-app]# systemctl stop httpd [root@mony basic-flask-app]# docker run -d -p 80:5000 iti-flask-lab2 8c5c073791a654780d851b47d037789017e0d96ea5a3572041c3288f01c4df2b
```

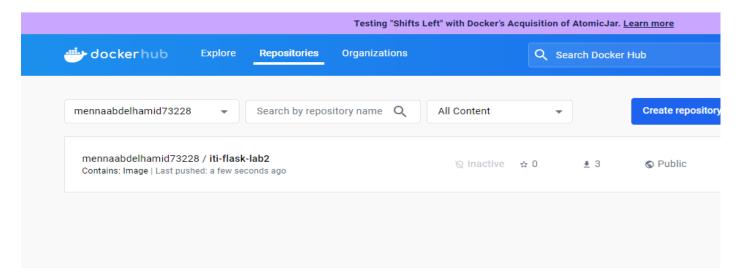
[root@mony basic-flask-app]# docker run -d -m=100m iti-flask-lab2fdd0583987208eef0e4033f1841fe6862f4b06f5fb7a39625dff87179ced0d10[root@mony basic-flask-app]#

```
[root@mony ~]# curl 127.0.0.1:80
<!doctype html>
<html>
  <head>
     <meta charset='utf-8'>
     <meta name='viewport' content='width=device-width, initial-scale=1'>
     <title>HTTP Server Test Page powered by: Rocky Linux</title>
     <style type="text/css">
       /*<![CDATA[*/
       html {
          height: 100%;
          width: 100%;
          body {
  background: rgb(20,72,50);
  background: Tgb(20,72,307, background: -moz-linear-gradient(180deg, rgba(23,43,70,1) 30%, rgba(0,0,0,1) 90%); background: -webkit-linear-gradient(180deg, rgba(23,43,70,1) 30%, rgba(0,0,0,1) 90%); background: linear-gradient(180deg, rgba(23,43,70,1) 30%, rgba(0,0,0,1) 90%);
  background-repeat: no-repeat;
  background-attachment: fixed;
  filter: progid:DXImageTransform.Microsoft.gradient(startColorstr="#3c6eb4",endColorstr="#3c95b4",G
radientType=1);
          color: white;
```

```
[root@mony basic-flask-app]# docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
```

Login Succeeded

```
[root@mony basic-flask-app]# docker tag mennaabdelhamid73228/iti-flask-lab2 iti-flask-lab2
[root@mony basic-flask-app]# docker push mennaabdelhamid73228/iti-flask-lab2
Using default tag: latest
The push refers to repository [docker.io/mennaabdelhamid73228/iti-flask-lab2]
c9b6f1d66a65: Layer already exists
1fe9bb1b7668: Layer already exists
c95f285615f6: Layer already exists
a1360aae5271: Layer already exists
a1360aae5271: Layer already exists
latest: digest: sha256:543fc470fcbc1910897261304021055e7b0f6b28ac38095e265cf7b6d5608724 size: 1153
[root@mony basic-flask-app]# ■
```



Part2:

```
[root@mony basic-flask-app]# docker network create --subnet 10.0.0.0/8 iti-network 050c58dd338938c93a06f57bd236cf9cf0ec855a4b4711c5e3ef9fe61267163f [root@mony basic-flask-app]# ■

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```

```
[root@mony tmp]# cd /tmp/lab2/
[root@mony lab2]# ls
indexfile
[root@mony lab2]#
```



Lab 2 ITI -Mennatallah Abdelhamid