```
lec10$ docker pull python:3.9.23-alpine3.22
3.9.23-alpine3.22: Pulling from library/python
9824c27679d3: Pull complete
596282ba7530: Pull complete
d325733a6252: Pull complete
e9a57d92e270: Pull complete
Digest: sha256:372f3cfc1738ed91b64c7d36a7a02d5c3468ec1f60c906872c3fd346dda8cbbb
Status: Downloaded newer image for python:3.9.23-alpine3.22
docker.io/library/python:3.9.23-alpine3.22
soha@ubuntu:~/depi_r3/lec10$ ls
soha@ubuntu:~/depi_r3/lec10$ cd simple_flask_app
soha@ubuntu:~/depi_r3/lec10/simple_flask_app$ ls
app.py Jenkinsfile requirements.txt
soha@ubuntu:~/depi_r3/lec10/simple_flask_app$ touch Dockerfile
soha@ubuntu:~/depi_r3/lec10/simple_flask_app$ vim Dockerfile
so ha@ubuntu: -/depi\_r3/lec10/simple\_flask\_app\$ \ git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask\_app.git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask\_app.git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask\_app.git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask\_app.git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask_app.git \ pull \ https://github.com/MoustafaRoushdy/simple\_flask_app.git \ pull \ https://github.com/MoustafaRoushdy/simple_flask_app.git \ pull \ pu
remote: Enumerating objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 1 (from 1)
Jnpacking objects: 100% (1/1), 167 bytes | 167.00 KiB/s, done.
From https://github.com/MoustafaRoushdy/simple_flask_app
 * branch
                                                     HEAD
                                                                                    -> FETCH HEAD
Jpdating 3fa60cd..2d15e30
Fast-forward
requirements.txt | 2 +
 1 file changed, 1 insertion(+), 1 deletion(-)
```

Dockerfile:

```
_r3/lec10/simple_flask_app$ vim Dockerrite
_r3/lec10/simple_flask_app$ docker build -t simple_flask_app:v0.3 .
                                                   ask_app$ vim Dockerfile
 oha@ubuntu:
 oha@ubuntu:~/depi
 +1 Building 8.3s (8/8) FINISHED
                                                                                                                                                docker:default
         naming to docker.to/library/simple_flask_app:v0.3
untu:-/depi_r3/lec10/simple_flask_app$ docker run -d --name app_flask1 -p 8080:5000 simple_flask_app
40579ae433b64af5af266dabbf13491a0d20b29917cd6773be4930da1aa9af37
 soha@ubuntu:~/depi_r3/lec10/simple_flask_app$ docker ps
                                COMMAND CREATED STATUS
                                                                          PORTS
CONTAINER ID IMAGE
                                                                                        NAMES
                                                       app$ docker container run -d --name app3 simple_flask_app
docker: Error response from daemon: Conflict. The container name "/app3" is already in use by container "81330b18c683b66
f53688f73559ddab500b2b3ab41893b79a032001ecc22ba53". You have to remove (or rename) that container to be able to reuse th
at name.
Run 'docker run --help' for more information
                                                         pp$ docker run -d --name app3 simple_flask_app
 oha@ubuntu:~/c
docker: Error response from daemon: Conflict. The container name "/app3" is already in use by container "81330b18c683b66
f53688f73559ddab500b2b3ab41893b79a032001ecc22ba53". You have to remove (or rename) that container to be able to reuse th
at name.
```

```
JSONArgsRecommended: JSON arguments recommended for CMD to prevent unintended behavior related to OS signals (line 8)
soha@ubuntu:-/dept_r3/lec10/simple_flask_app$ docker run -d --name app1 -p 8080:5000 simple_flask_app
docker: Error response from daemon: Conflict. The container name "/app1" is already in use by container "828a3cc967fc880
137d8c21c9f8837581be4e69353af17a018fe41888e3fbe9e". You have to remove (or rename) that container to be able to reuse th
Run 'docker run --help' for more information
 oha@ubuntu:-/dept_r3/lec10/simple_flask_app$ docker run -d --name app2 -p 8080:5000 simple_flask_app
4ed48b58d18b3eded7a1f8cdc9225dd99aef2a557919bd1d5bef459ba591cc53
                 IMAGE
                                      le_flask_app$ docker ps
CREATED STATUS PORTS
CONTAINER ID
                             COMMAND
                                                                             NAMES
                                                 pp$ docker ps -a
CONTAINER ID IMAGE
                                             COMMAND
                                                                           CREATED
                                                                                               STATUS
                                                                                                                                 PORTS
                                                                                                                                             NA
4ed48b58d18b
                 simple_flask_app
                                             "/bin/sh -c 'python ..."
                                                                           15 seconds ago Exited (2) 14 seconds ago
                                                                                                                                             ар
828a3cc967fc
                 simple_flask_app
                                             "/bin/sh -c 'python ..."
                                                                           6 minutes ago
                                                                                               Exited (2) 6 minutes ago
                                                                                                                                             ар
1490f87eeca3
                                             "/bin/sh -c 'python ..."
                 simple flask app
                                                                           10 minutes ago
                                                                                               Exited (2) 10 minutes ago
                                                                                                                                             ne
vous_joliot
:6a18a41895b
                 simple_flask_app
                                             "/bin/sh -c 'python ..."
                                                                           12 minutes ago
                                                                                               Exited (2) 12 minutes ago
gry_cannon
926a6d622667
                 mariadb
                                             "docker-entrypoint.s..."
                                                                                               Exited (0) 46 minutes ago
                                                                           4 hours ago
                                                                                                                                             so
e3c361ad135
                 mariadb:latest
                                             "docker-entrypoint.s..."
                                                                           5 hours ago
                                                                                               Exited (1) 5 hours ago
uthful_curran
                                             "docker-entrypoint.s..."
                                                                           5 hours ago
                                                                                                Exited (1) 5 hours ago
ing_khayyam
                 mariadb:latest
                                             "docker-entrypoint.s..."
                                                                                               Exited (1) 5 hours ago
162a7ce147d7
                                                                           5 hours ago
                                                                                                                                             da
```

```
Run 'docker run --help' for more information
                                                                    app$ docker run -d simple_flask_app:v0.3 .
c724f502003cf06541e801b7c904a245eee8aa72e2b5a76013a64c4d15ef1c3a
docker: Error response from daemon: failed to create task for container: failed to create shim task: OCI runtime create
failed: runc create failed: unable to start container process: error during container init: exec: ".": executable file r
ot found in $PATH: unknown
Run 'docker run --help' for more information
soha@ubuntu:~/dept_r3/lec10/simple_flask_app$ docker run -d simple_flask_app:v0.3
cd69e772461809f5a74b715f9e78cb267a71ee857cf77a500148deb3759c41e3
                       depi_r3/lec10/simple_flask
IMAGE
                       IMAGE COMMAND CREATED simple_flask_app:v0.3 "python3 app.py" 5 seconds ago dept_r3/lec10/stmple_flask_app$ docker logs cd69e7724618
CONTAINER ID
                                                                                                                         STATUS
                                                                                                                                                  PORTS
5000/tcp
                                                                                                                                                                     NAMES
cd69e7724618
                                                                                                                                                                    interesting_ptolemy
                                                                                                                        Up 5 seconds
* Serving Flask app 'app'
* Debug mode: off
 * Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
soha@ubuntu:-/depi_r3/lec10/simple_flask_app$ docker run -d -p 8080:5000 simple_flask_app:v0.3
448db5e1d3adf82e931fa34bc8aba42229b8134955ff2a4fedf5355bad692d3b
 oha@ubuntu:-/depi_r3/lec10/simple_flask_app$ docker logs cd69e7724618
* Serving Flask app 'app'
 * Debug mode: off
 * Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
```

Localhost:



