

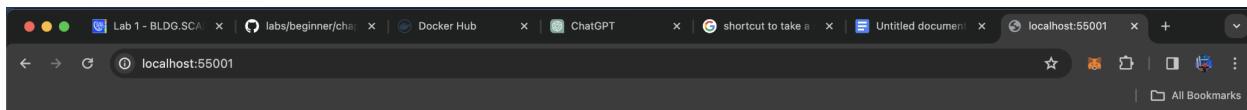
```
simarchawla@Simars-MacBook-Air ~ % docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
alpine              latest   1dc785547989  4 weeks ago   7.73MB
docker/wELCOME-to-docker  latest   648f93a1ba7d  2 months ago  19MB
hello-world         latest   ee301c921b8a  8 months ago  9.14kB
simarchawla@Simars-MacBook-Air ~ % docker run alpine ls -l
total 56
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 bin
drwxr-xr-x  5 root    root      340 Jan 12 01:06 dev
drwxr-xr-x  1 root    root      4096 Jan 12 01:06 etc
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 home
drwxr-xr-x  7 root    root      4096 Dec  7 09:45 lib
drwxr-xr-x  5 root    root      4096 Dec  7 09:45 media
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 mnt
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 opt
dr-xr-xr-x  236 root   root      0 Jan 12 01:06 proc
drwx----- 2 root    root      4096 Dec  7 09:45 root
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 run
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 sbin
drwxr-xr-x  2 root    root      4096 Dec  7 09:45 srv
dr-xr-xr-x  12 root   root      0 Jan 12 01:06 sys
drwxrwxrwt  2 root    root      4096 Dec  7 09:45 tmp
drwxr-xr-x  7 root    root      4096 Dec  7 09:45 usr
drwxr-xr-x  12 root   root      4096 Dec  7 09:45 var
simarchawla@Simars-MacBook-Air ~ %
```

```
simarchawla@Simars-MacBook-Air ~ % docker run alpine echo "Hello from echo"
Hello from echo
simarchawla@Simars-MacBook-Air ~ % docker run alpine /bin/sh
```

```
simarchawla@Simars-MacBook-Air ~ % docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
8161dcf4ebe7      docker/wELCOME-to-docker:latest   "/docker-entrypoint..."   36 minutes ago     Up 36 minutes   0.0.0.0:8088->80/tcp   welcome-to-docker
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
91e1b025b378      alpine              "/bin/sh"           About a minute ago   Exited (0) About a minute ago   reverent_m
cc1intock          5ae6817ac192      alpine              "echo 'Hello from ec..."   About a minute ago   Exited (0) About a minute ago   quizzical_
haslett            86e993e6a51f      alpine              "ls -l"              3 minutes ago     Exited (0) 3 minutes ago   affectiona
te_babbage          86e993e6a51f      alpine              "/bin/sh"           26 minutes ago     Exited (0) 26 minutes ago   determined
c25130464456      alpine              "echo 'Hello from ec..."   27 minutes ago     Exited (0) 27 minutes ago   happy_grei
_goodall            382c0dcce7b3      alpine              "ls -l"              31 minutes ago     Exited (0) 31 minutes ago   naughty_po
der                 924e5fcfa24e      alpine              "/hello"            35 minutes ago     Exited (0) 35 minutes ago   festive_ke
itras               1dc4bc65cc3e      hello-world        "/hello"           36 minutes ago     Up 36 minutes   0.0.0.0:8088->80/tcp   welcome-to-docker
ldysh               simarchawla@Simars-MacBook-Air ~ %
```

```
simarchawla@Simars-MacBook-Air ~ % docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
91e1b025b378 alpine "/bin/sh" About a minute ago Exited (0) About a minute ago reverent_m
cclintock
5ae6817ac192 alpine "echo 'Hello from ec..." About a minute ago Exited (0) About a minute ago quizzical_
haslett
86e983e6a51f alpine "ls -l" 3 minutes ago Exited (0) 3 minutes ago affectionate
te_babbage
c25130e64456 alpine "/bin/sh" 26 minutes ago Exited (0) 26 minutes ago determined
_goodall
382c0dccc7b3 alpine "echo 'Hello from ec..." 27 minutes ago Exited (0) 27 minutes ago happy_grei
der
924e5fcfa24e alpine "ls -l" 31 minutes ago Exited (0) 31 minutes ago naughty_poo
itras
1dc4bc65cc3e hello-world "/hello" 35 minutes ago Exited (0) 35 minutes ago festive_ke
ldysh
8161dcf4eb7 docker/welcome-to-docker:latest "/docker-entrypoint..." 36 minutes ago Up 36 minutes 0.0.0.0:8088->80/tcp welcome-to-
-docker
simarchawla@Simars-MacBook-Air ~ % docker run -it alpine /bin/sh
/ # ls
bin dev etc home lib media mnt opt proc root run sbin srv sys tmp usr var
/ # uname -a
Linux 8a7c94a60867 6.5.11-linuxkit #1 SMP PREEMPT Wed Dec 6 17:08:31 UTC 2023 aarch64 Linux
/ #
```

```
simarchawla@Simars-MacBook-Air ~ % docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95caeb02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
aff3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
WARNING: The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
1b9176f3188e4a3c9bfa18b1a1c0b1b4319adefa2c63e2dfc519e3977c3777a
simarchawla@Simars-MacBook-Air ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
1b9176f3188e dockersamples/static-site "/bin/sh -c 'cd /usr..." 21 seconds ago Up 20 seconds 80/tcp, 443/tcp wizardly_pasteur
8161dcf4eb7 docker/welcome-to-docker:latest "/docker-entrypoint..." About an hour ago Up About an hour 0.0.0.0:8088->80/tcp welcome-to-docker
simarchawla@Simars-MacBook-Air ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
1b9176f3188e dockersamples/static-site "/bin/sh -c 'cd /usr..." About a minute ago Up About a minute 80/tcp, 443/tcp wizardly_pasteur
8161dcf4eb7 docker/welcome-to-docker:latest "/docker-entrypoint..." About an hour ago Up About an hour 0.0.0.0:8088->80/tcp welcome-to-docker
1b9176f3188e
simarchawla@Simars-MacBook-Air ~ % docker run --name static-site -e AUTHOR="simarchawla" -d -P dockersamples/static-site
WARNING: The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
fbcd041cf6814dc4de3fdb37c1e724931659539a44f02ff6b899c5cb211ee3
simarchawla@Simars-MacBook-Air ~ % docker port static-site
80/tcp -> 0.0.0.0:55001
443/tcp -> 0.0.0.0:55000
simarchawla@Simars-MacBook-Air ~ % http://localhost:55001
zsh: no such file or directory: http://localhost:55001
simarchawla@Simars-MacBook-Air ~ %
```



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6 |  
7 |     # install Python modules needed by the Python app  
  
ERROR: failed to solve: process "/bin/sh -c apk add --update py2-pip" did not complete successfully: exit code: 1  
✖ simarchawla@Simars-Air flask-app % RUN apk add --update python3 py3-pip  
zsh: command not found: RUN  
✖ simarchawla@Simars-Air flask-app % RUN apk add --update python3 py3-pip  
zsh: command not found: RUN  
● simarchawla@Simars-Air flask-app % docker build -t simarchawla1/myfirstapp .  
[+] Building 7.9s (11/11) FINISHED docker:desktop-linux  
=> [internal] load .dockerignore 0.0s  
=> => transferring context: 2B 0.0s  
=> [internal] load build definition from Dockerfile 0.0s  
=> => transferring dockerfile: 529B 0.0s
```

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```
[simarchawla@Simars-MacBook-Air ~] docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95cae0b2: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
af3f3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
WARNING: The requested image's platform (linux/arm64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
1b9176f3188e4aa3c9bfa18b1a1c0b1b4319adef2a263e2dfc519e3977c3777a
[simarchawla@Simars-MacBook-Air ~] docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS                 NAMES
1b9176f3188e        dockersamples/static-site   "/bin/sh -c 'cd /usr..."   21 seconds ago    Up 20 seconds      80/tcp, 443/tcp   wizardly_pasteur
1b16dfcfebe7        docker/welcome-to-docker:latest  "/docker-entrypoint..."  About an hour ago  Up About an hour   0.0.0.0:8088->80/tcp   welcome-to-docker
[simarchawla@Simars-MacBook-Air ~] docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS                 NAMES
1b9176f3188e        dockersamples/static-site   "/bin/sh -c 'cd /usr..."   About a minute ago  Up About a minute  80/tcp, 443/tcp   wizardly_pasteur
1b16dfcfebe7        docker/welcome-to-docker:latest  "/docker-entrypoint..."  About an hour ago  Up About an hour   0.0.0.0:8089->80/tcp   welcome-to-docker
```

```
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: exec: "python": executable file not found in $PATH: unknown.
simarchawla$Imars-Air flask-app % docker rm -f myfirstapp
myfirstapp
simarchawla$Imars-Air flask-app % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
simarchawla$Imars-Air flask-app % git clone https://github.com/docker/example-voting-app.git
Cloning into 'example-voting-app'...
remote: Enumerating objects: 1132, done.
remote: Total 1132 (delta 0), reused 0 (delta 0), pack-reused 1132
Receiving objects: 100% (1132/1132), 1.17 MiB | 4.38 MiB/s, done.
Resolving deltas: 100% (432/432), done.
simarchawla$Imars-Air flask-app %
cd example-voting-app
simarchawla$Imars-Air example-voting-app %
```

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```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS zsh - example-voting-app + - x

Swarm initialized: current node (fusqy8qmx2zsth7esdnuytrut) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-4z8cbnv0richm6l1994pmhnflq2qmbwkb7ydjqid6nu5ixcw-bejkh0wz4e6qlnh0udop1jkf 192.168.65.3:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

simarchawla@Simars-Air example-voting-app % docker stack deploy --compose-file docker-stack.yml vote
Creating network vote_backend
Creating network vote_frontend
Creating service vote_result
Creating service vote_worker
Creating service vote_redis
Creating service vote_db
Creating service vote_vote
simarchawla@Simars-Air example-voting-app % docker stack services vote
ID          NAME      MODE      REPLICAS  IMAGE
z263lf3p92x5  vote_db   replicated 1/1     postgres:15-alpine
8crfmw9h8wqk  vote_redis replicated 1/1     redis:alpine
n7007mlblsk  vote_result replicated 1/1     dockersamples/examplevotingapp_result:latest *:5001->80/tcp
z90z891g3b4o  vote_vote   replicated 2/2     dockersamples/examplevotingapp_vote:latest  *:5000->80/tcp
3srq65seqzlc  vote_worker replicated 2/2     dockersamples/examplevotingapp_worker:latest
simarchawla@Simars-Air example-voting-app %
```

