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studio.kodekloud.com/labs/docker/docker_basiccmmnds

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Back to Domain Docker Basic Commands Learn essential Docker commands for container management and operations. Beginner 45-60 min

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Next →

How many containers are running on this host?

0

2

3

1

Terminal 1

Stop Lab

~ → docker ps -q |wc -l

0

~ → docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

~ →

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Next →

How many images are available on this host?

9

2

3

0

1

Terminal 1

Stop Lab

~ → docker ps -q |wc -l

0

~ → docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

~ → docker images -q |wc -l

9

~ → docker images

REPOSITORY TAG IMAGE ID CREATED SI

alpine latest 91ef0af61f39 10 months ago 7.

79MB

nginx alpine c7b4f26a7d93 11 months ago 43

.2MB

nginx latest 39286ab8a5e1 11 months ago 18

8MB

postgres latest b781f3a53e61 11 months ago 43

2MB

ubuntu latest edbfe74c41f8 11 months ago 78

MB

redis latest 590b81f2fea1 11 months ago 11

7MB

mysql latest a82a8f162e18 11 months ago 58

6MB

kodekloud/simple-webapp-mysql latest 129dd9f67367 6 years ago 96

.6MB

kodekloud/simple-webapp latest c6e3cd9aae36 6 years ago 84

.8MB

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Next →

Run a container using the `redis` image

NOTE: Run the container in detached mode if you don't want the container to take over your current terminal. This allows your terminal to remain free for other commands, or you can open a new terminal to run the command.

Check

☐ Image: redis

~ → `docker run -d --name rediss redis`

e99a77fb0b5151d2ef3a0e6e4816cec8e255bc519c279984f4feb7ef54d0604d

~ →

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Next →

Stop the container you just created

Check

☐ Container Stopped

~ → `docker run -d --name rediss redis`

e99a77fb0b5151d2ef3a0e6e4816cec8e255bc519c279984f4feb7ef54d0604d

~ → `docker stop rediss`

rediss

~ →

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Next →

How many containers are **RUNNING** on this host now?

We just created a few.

3

2

4

1

0

~ → docker ps -q | wc -l

4

~ →

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45-60 min

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How many containers are **PRESENT** on the host now?

Including both **Running** and **Not Running** ones

6

2

0

4

3

1

~ → docker ps -q | wc -l

4

~ → docker ps -aq | wc -l

6

~ →

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What is the image used to run the `nginx-1` container?

nginx:v2

nginx:1.7

nginx

nginx:alpine

alpine

Terminal 1

Stop Lab

```
"NGINX_VERSION=1.27.1",
"PKG_RELEASE=1",
"DYNPKG_RELEASE=2",
"NJS_VERSION=0.8.5",
"NJS_RELEASE=1"
],
"Cmd": [
  "nginx",
  "-g",
  "daemon off;"
],
"Image": "nginx:alpine",
"Volumes": null,
"WorkingDir": "",
"Entrypoint": [
  "/docker-entrypoint.sh"
],
"OnBuild": null,
"Labels": {
  "maintainer": "NGINX Docker Maintainers <docker-maint@nginx.com>"
},
"StopSignal": "SIGQUIT"
},
"NetworkSettings": {
  "Bridge": "",
  "SandboxID": "a1178d15ebc45a71158dc2ef7921195414949155f9703bd33c66728074a15313",
  "SandboxKey": "/var/run/docker/netns/a1178d15ebc4",
  "Ports": {
    "80/tcp": null
  }
}
```

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Next →

What is the `ID` of the container that uses the `alpine` image and is `not running`?

5b75287f3393030af86965a
b20033fed2109fd4347b5ca
9be15d0cd929b183be

b2cc2c6eabf1c87fa6bafcc72
7b3939be55dfbc0504e939
57ab7ed9aee2ba84

e7ba91e53ff38b59818853c6
d49bc2a21a540be06147ac2
d539f5de1dabbcfe

87040ced7bdd52078c25811
2fe2b7402810e1bbea92aa0f
531cd363af2d67f0a

Terminal 1

Stop Lab

```
~ → docker ps -a --filter ancestor=alpine --filter status=exited
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
e7ba91e53ff3   alpine    "/bin/sh"  8 minutes ago   Exited (0) 8 minutes ago   loving_chatterjee

~ →
```

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45-60 min

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Next →

What is the state of the stopped `alpine` container?

STARTED

COMPLETED

EXITED

STOPPED

RUNNING

```
~ → docker ps -a --filter "ancestor=alpine"

CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
e7ba91e53ff3   alpine    "/bin/sh"               11 minutes ago Exited (0) 11 minutes ago           loving_chatterjee
a01171022531   alpine    "sleep 1000"            11 minutes ago Up 11 minutes           flamboyant_brown

~ →
```

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Beginner

45-60 min

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Next →

Delete all containers from the Docker Host.

Both `Running` and `Not Running` ones. Remember you may have to stop containers before deleting them.

Check

☐ All containers deleted

```
~ → docker rm -f $(docker ps -aq)
e7ba91e53ff3
a01171022531
5b729aec955e
6a63e3141f8c
68bf36718405
e99a77fb0b51

~ →
```

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Beginner

45-60 min

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Next →

Delete the `ubuntu` Image.

Check

☐ ubuntu image deleted

```
~ → docker rmi ubuntu
Untagged: ubuntu:latest
Untagged: ubuntu@sha256:8a37d68f4f73ebf3d4efafbcf66379bf3728902a8038616808f04e34a9ab63ee
Deleted: sha256:edbfe74c41f8a3501ce542e137cf28ea04dd03e6df8c9d66519b6ad761c2598a
Deleted: sha256:f36fd4bb7334b7ae3321e3229d103c4a3e7c10a263379cc6a058b977edfb46de

~ →
```

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45-60 min

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Next →

You are required to pull a docker image which will be used to run a container later. Pull the image `nginx:1.14-alpine`

Only pull the image, do not create a container.

Check

☐ Image pulled

```
~ → docker pull nginx:1.14-alpine

1.14-alpine: Pulling from library/nginx
bdf0201b3a05: Pull complete
3d0a573c81ed: Pull complete
8129faeb2eb6: Pull complete
3dc99f571daf: Pull complete
Digest: sha256:485b610fefec7ff6c463ced9623314a04ed67e3945b9c08d7e53a47f6d108dc7
Status: Downloaded newer image for nginx:1.14-alpine
docker.io/library/nginx:1.14-alpine

~ →
```

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Run a container with the `nginx:1.14-alpine` image and name it `webapp`

Check

☐ Container created

☐ Name: webapp

```
~ → docker run -d --name webapp nginx:1.14-alpine
9f6d9f6d75b4ae34df2aff30654c020742b9831345e6060df7c103ea255f9aae
~ →
```

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Run a container with the `nginx:1.14-alpine` image and name it `webapp`

Check

Next →

☒ Container created

☒ Name: webapp

```
~ → docker run -d --name webapp nginx:1.14-alpine
f382db4677d6d547ae551ae3f2b8c2478cec2c1e413c0af6ad9a016aef38aa99
~ →
```


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45-60 min

Task

Hint

Solution

AI Assistant (Beta)

27:58

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Next →

Cleanup: Delete all images on the host

Remove containers as necessary

Check

Next →

Remove all images

Terminal 1

Stop Lab

```
~ → docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         1.14-alpine  8a2fb25a19f5   6 years ago   16MB

~ → docker rm -f $(docker images -q)
Error response from daemon: No such container: 8a2fb25a19f5

~ → docker rmi -f $(docker images -q)

Untagged: nginx:1.14-alpine
Untagged: nginx@sha256:485b610fefec7ff6c463ced9623314a04ed67e3945b9c08d7e53a47f6d108dc7
Deleted: sha256:8a2fb25a19f5dc1528b7a3fabe8b3145ff57fe10e4f1edac6c718a3cf4aa4b73
Deleted: sha256:f68a8bcb9dbd06e0d2750eabf63c45f51734a72831ed650d2349775865d5fc20
Deleted: sha256:cbf2c7789332fe231e8defa490527a7b2c3ae8589997ceee00895f3263f0a8cf
Deleted: sha256:894f3fad7e6ecd7f24e88340a44b7b73663a85c0eb7740e7ade169e9d8491a4c
Deleted: sha256:a464c54f93a9e88fc1d33df1e0e39cca427d60145a360962e8f19a1dbf900da9

~ →
```