



KodeFix Originals

studio.kodekloud.com/labs/docker/docker_basicscommands

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Docker Basic Commands

Learn essential Docker commands for container management and operations.

Beginner

45-60 min

53:17

Next →

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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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Docker Basic Commands

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Beginner

45-60 min

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Next →

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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.
nginx	alpine	c7b4f26a7d93	11 months ago	43
nginx	latest	39286ab8a5e1	11 months ago	18
postgres	latest	b781f3a53e61	11 months ago	43
ubuntu	latest	edbfe74c41f8	11 months ago	78
redis	latest	590b81f2fea1	11 months ago	11
mysql	latest	a82a8f162e18	11 months ago	58
kodekloud/simple-webapp-mysql	latest	129dd9f67367	6 years ago	96
kodekloud/simple-webapp	latest	c6e3cd9aae36	6 years ago	84

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45-60 min

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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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Beginner

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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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Beginner

45-60 min

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Next →

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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Next →

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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Beginner

45-60 min

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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
d49bc2a21a540be06f47ac2
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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What is the state of the stopped `alpine` container?

STARTED

COMPLETED

EXITED

STOPPED

RUNNING

Next →

```
~ → 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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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

Next →

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

~ →
```

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Beginner

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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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Learn essential Docker commands for container management and operations.

Beginner

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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Learn essential Docker commands for container management and operations.

Beginner

45-60 min

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Next →

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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Next →

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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Beginner

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

~ →
```