

CodeFlix Originals

studio.kodekloud.com/labs/docker/docker\_run

Back to Domain

Docker Run

Master the docker run command with various options and configurations.

Beginner

60-90 min

Task

Hint

AI Assistant (Beta)

57:45

Next →

1/6

Let us first inspect the environment. How many containers are running on this host?

2

3

0

1

Terminal 1

+

Stop Lab

...

Welcome to the KodeKloud Hands-On lab

All rights reserved

~ → docker ps -q | wc -l

1

~ →

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AI Assistant (Beta)

57:05

Next →

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What is the image used by the container?

nginx:alpine

tomcat

redis

nginx

ubuntu

Terminal 1

+

Stop Lab

...

Welcome to the KodeKloud Hands-On lab

All rights reserved

~ → docker ps -q | wc -l

1

~ → docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS NAMES

5b62edc4f16b nginx:alpine "/docker-entrypoint..." About a minute ago Up About a minute 0.0.0.0:3456->3456/tcp, :::3456->3456/tcp, 0.0.0.0:38080->80/tcp, :::38080->80/tcp ecstic\_mendelev

~ → docker inspect 5b62edc4f16b --format '{{.Config.Image}}'

nginx:alpine

~ →

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Docker Run

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Beginner

60-90 min

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Next →

How many unique **ports** are published on this container (count each **port** only once even if it appears for IPv4 and IPv6)?

0

1

3

2

4

```
~ → docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS
5b62edc4f16b   nginx:alpine  "/docker-entrypoint..."  5 minutes ago  Up 5 minutes  0.0.0.0
:3456->3456/tcp, :::3456->3456/tcp, 0.0.0.0:38080->80/tcp, :::38080->80/tcp  ecstatic_mendel
eev

~ → docker inspect 5b62edc4f16b --format '{{.NetworkSettings.Ports}}'
map[3456/tcp:[{0.0.0.0 3456} {:: 3456}] 80/tcp:[{0.0.0.0 38080} {:: 38080}]]

~ →
```

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Docker Run

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Beginner

60-90 min

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Next →

How many unique **ports** are published on this container (count each **port** only once even if it appears for IPv4 and IPv6)?

0

1

3

2

4

```
~ → docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS
5b62edc4f16b   nginx:alpine  "/docker-entrypoint..."  5 minutes ago  Up 5 minutes  0.0.0.0
:3456->3456/tcp, :::3456->3456/tcp, 0.0.0.0:38080->80/tcp, :::38080->80/tcp  ecstatic_mendel
eev

~ → docker inspect 5b62edc4f16b --format '{{.NetworkSettings.Ports}}'
map[3456/tcp:[{0.0.0.0 3456} {:: 3456}] 80/tcp:[{0.0.0.0 38080} {:: 38080}]]

~ → docker post 5b62edc4f16b
docker: 'post' is not a docker command.
See 'docker --help'

~ ✗ docker port 5b62edc4f16b
80/tcp -> 0.0.0.0:38080
80/tcp -> [::]:38080
3456/tcp -> 0.0.0.0:3456
3456/tcp -> [::]:3456

~ →
```

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Task Solution AI Assistant (Beta) 47:49

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Which of the following ports are mapped on the **container side** (i.e., exposed inside the container)?

22 & 3456

38080 & 80

3456 & 80

80 & 8080

3456 & 3456

Next →

Terminal 1

```
~ → docker port 5b62edc4f16b
80/tcp -> 0.0.0.0:38080
80/tcp -> [::]:38080
3456/tcp -> 0.0.0.0:3456
3456/tcp -> [::]:3456
~ →
```

Stop Lab

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Back to Domain Docker Run Master the docker run command with various options and configurations. Beginner 60-90 min

Task Hint AI Assistant (Beta) 46:53

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Which of the below ports are published on **Host**?

22 & 3456

3456 & 80

80 & 80

38080 & 3456

3456 & 3456

Next →

Terminal 1

```
~ → docker port 5b62edc4f16b
80/tcp -> 0.0.0.0:38080
80/tcp -> [::]:38080
3456/tcp -> 0.0.0.0:3456
3456/tcp -> [::]:3456
~ →
```

Stop Lab

CodeFix Originals

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Beginner

60-90 min

Task

Hint

AI Assistant (Beta)

44:16

Next →

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Run an instance of `kodekloud/simple-webapp:blue` and name the container `blue-app`, mapping port `8080` on the container to port `38282` on the host

Check

Next →

✓ Is the blue-app container running?

✓ Is the blue-app utilizing the image: `kodekloud/simple-webapp:blue`?

✓ Is the application exposed on Container Port 8080?

✓ Is the application exposed on Host Port 38282?

Terminal 1

HOST:38282

Stop Lab

~ → `docker run -d --name blue-app -p 38282:8080 kodekloud/simple-webapp:blue`

Unable to find image 'kodekloud/simple-webapp:blue' locally

blue: Pulling from kodekloud/simple-webapp

4fe2ade4980c: Already exists

7cf6a1d62200: Already exists

f0d690b9e495: Already exists

fac5d45ad062: Already exists

a6fc8a0deb7d: Pull complete

f43c8e496f88: Pull complete

58ca939f7651: Pull complete

095a1a007cdb: Pull complete

Digest: sha256:9caf15476dc60b77c7460791bea8ea5f6ca02b90199aabe088beea83bc943fe5

Status: Downloaded newer image for kodekloud/simple-webapp:blue

9b7e9eb5c553d553593d7e0cf5cf1ea3c9186801a3f8a1277f2b9537f027cbbf

~ →

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Docker Run

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Beginner

60-90 min

End

43:38

Stop Lab

CONGRATULATIONS!!!!

You have successfully completed the challenge.

End lab session

Terminal 1

~ → `docker run -d --name blue-app -p 38282:8080 kodekloud/simple-webapp:blue`

Unable to find image 'kodekloud/simple-webapp:blue' locally

blue: Pulling from kodekloud/simple-webapp

4fe2ade4980c: Already exists

7cf6a1d62200: Already exists

f0d690b9e495: Already exists

fac5d45ad062: Already exists

a6fc8a0deb7d: Pull complete

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58ca939f7651: Pull complete

095a1a007cdb: Pull complete

Digest: sha256:9caf15476dc60b77c7460791bea8ea5f6ca02b90199aabe088beea83bc943fe5

Status: Downloaded newer image for kodekloud/simple-webapp:blue

9b7e9eb5c553d553593d7e0cf5cf1ea3c9186801a3f8a1277f2b9537f027cbbf

~ →