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 **Docker Compose**

Learn Docker Compose for multi-container application orchestration.

Intermediate

2.5 hours

End

29:29

Terminal 1

CONGRATULATIONS!!!!


You have successfully completed the challenge.

End lab session

Welcome to the Clickcount challenge

```
~ → vim cli
~ → cd cli
~/clickcount
zsh: command not found
```

Back

 **Docker Storage**

Understand Docker storage concepts including volumes and bind mounts.

Intermediate

1.5 hours

End

42:14

Terminal 1

CONGRATULATIONS!!!!

You have successfully completed the challenge.


End lab session

```
27 Hayfa 1-609-407-3019
28 Todd 343-0454
29 Fuller 881-7273
30 Rama 1-927-605-0610

~ → docker run -v /opt/data:/v
85dcfd488516678c1b70d2368edd1a6

~ → ./get-data.sh
mysql: [Warning] Using a password
id Name Phone Email
1 Kareem 130-5655
2 Ruby 1-584-149-0770
3 Rowan 199-8663
4 Alisa 220-6017
5 Ella 731-0337
6 Tiger 658-4480
7 Felix 1-274-848-3378
8 Karina 1-390-796-3451
```

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 **Docker Networking**

Learn about Docker networking, bridge networks, and container communication.

Intermediate

1.5 hours

End

36:33

Terminal 1

CONGRATULATIONS!!!!

You have successfully completed the challenge.

End lab session


Welcome to the Knockout challenge

```
~ → docker run -d
> -e DB_Password=db_pass
zsh: permission denied:

~ * docker run -d --na
> -e DB_Password=db_pass
docker: invalid referenc
See 'docker run --help'.
```

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 **Docker Registry**

Learn how to use Docker registries to store and share images.

Intermediate

1.5 hours

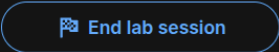
End

🕒 38:07

🔍

CONGRATULATIONS!!!!

You have successfully completed the challenge.




Terminal 1

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← Back

 **Docker CMD & Entrypoint**

Learn the difference between CMD and ENTRYPOINT in Dockerfiles.

Intermediate

1.5 hours

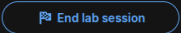
End

🕒 38:24

🔍

CONGRATULATIONS!!!!


You have successfully completed the challenge.



Terminal 1

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~ →

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 **Docker Images**

Understand Docker Images, building custom images, and image management.

Intermediate

2 hours

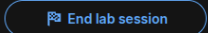
End

🕒 31:06

🔍

CONGRATULATIONS!!!!

You have successfully completed the challenge.



Terminal 1

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```
Downloading itsdangerous-2.0.1-py3-none-any.whl
Collecting importlib-metadata
  Downloading importlib_metadata-4.8.3-py3-none-any.whl (39 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.0.1-cp36-cp36m-musllinux_1_1-x86_64.whl (16 kB)
Collecting dataclasses
  Downloading dataclasses-0.8-py3-none-any.whl (19 kB)
Collecting typing-extensions>=3.6.4
  Downloading typing_extensions-4.1.1-py3-none-any.whl (26 kB)
Collecting zipp>=0.5
  Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)
Installing collected packages: zipp, typing-extensions, Jinja2, itsdangerous, click, flask
Successfully installed Jinja2-3.0.3 MarkupSafe-2.0.1 importlib-metadata-4.8.3 itsdangerous-2.0.1 typ
WARNING: Running pip as the 'root' user can result in broken package management behavior, possibly
system package manager. It is recommended to use pip with a virtual environment.
WARNING: You are using pip version 21.2.4; however, pip 21.3 is available.
--> Removed intermediate container 1f926ac4f1d
> 0389eb7f6d97
```

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Docker Environment Variables

Learn how to use environment variables in Docker containers.

Beginner

1 hour

End


47:07

CONGRATULATIONS!!!!  
You have successfully completed the challenge.

End lab session

Terminal 1

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```
~ → $ docker run --name mysql-db -e MYSQL_ROOT_PASSWORD=db_pass123 -d mysql
zsh: command not found: $

~ * docker run --name mysql-db -e MYSQL_ROOT_PASSWORD=db_pass123 -d mysql
64d83b4a3f3fd3b2df5139cc3c4978b93e6e64bfe2e7596b0c5762b42a3b040a

~ →
```

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Docker Run

Master the docker run command with various options and configurations.

Beginner

1.5 hours

End

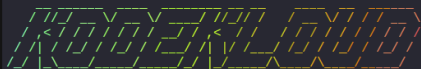
55:43

CONGRATULATIONS!!!!  
You have successfully completed the challenge.

End lab session

Terminal 1

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```
~ → docker run -d -p38282:8080 --name blue-app 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
fac5d45ad862: Already exists
a6fc8a0deb7d: Pull complete
f43c8e496f88: Pull complete
58ca939f7651: Pull complete
095a1a087cdb: Pull complete
Digest: sha256:9caf15476dc60b77c7460791bea8ea5f6ca02b99199aabe888beea83bc943fe5
Status: Downloaded newer image for kodekloud/simple-webapp:blue
f369030736a363d8a24720d6dd684346549f1c3301adf323076cfdce8d99e5a7

~ →
```

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Docker Basic Commands

Learn essential Docker commands for container management and operations.

Beginner

1 hour

End

32:54

CONGRATULATIONS!!!!  
You have successfully completed the challenge.

End lab session

Terminal 1

Untagged: mysql:latest  
Untagged: mysql@sha256:86cdf83  
Deleted: sha256:a82a8f162e188e6  
Deleted: sha256:5da6d4af0083ef9  
Deleted: sha256:c2517597cb75237  
Deleted: sha256:87392ed73e360ff  
Deleted: sha256:652f8d3f70cb386  
Deleted: sha256:aeb66573c46a113  
Deleted: sha256:c103d3c7862eec5  
Deleted: sha256:bfee82506d3915f  
Deleted: sha256:f829026b115edfb  
Deleted: sha256:28ff378667a9659  
Deleted: sha256:3cf436755aff907  
Untagged: nginx:1.14-alpine  
Untagged: nginx@sha256:485b610f  
Deleted: sha256:8a2fb25a19f5dc1  
Deleted: sha256:f68a8bcb9dbd066