

Intro to Docker

Learn to create, build and deploy Docker containers!

Task 2 Basic Docker Syntax

Question	Answer
If we wanted to pull a docker image, what would our command look like?	docker pull
If we wanted to list all images on a device running Docker, what would our command look like?	docker image ls
Let's say we wanted to pull the image "tryhackme" (no quotations); what would our command look like?	docker pull tryhackme
Let's say we wanted to pull the image "tryhackme" with the tag "1337" (no quotations). What would our command look like?	docker pull tryhackme:1337

Task 3 Running Your First Container

Question	Answer
What would our command look like if we wanted to run a container interactively? Note: Assume we are not specifying any image here.	docker run -it
What would our command look like if we wanted to run a container in "detached" mode? Note: Assume we are not specifying any image here.	docker run -d
Let's say we want to run a container that will run and bind a webserver on port	docker run -p 80:80

80. What would our command look like? Note: Assume we are not specifying any image here.	
How would we list all running containers?	docker ps
Now, how would we list all containers (including stopped)?	docker ps -a

Task 4 Intro to Dockerfiles

Question	Answer
What instruction would we use to specify what base image the container should be using?	FROM
What instruction would we use to tell the container to run a command?	RUN
What docker command would we use to build an image using a Dockerfile?	build
Let's say we want to name this image; what argument would we use?	-t

Task 5 Intro to Docker Compose

Question	Answer
I want to use docker-compose to start up a series of containers. What argument allows me to do this?	up
I want to use docker-compose to delete the series of containers. What argument allows me to do this?	down
What is the name of the .yaml file that docker-compose uses? Note: for this question, you will need to include the .yaml file extension in your answer	docker-compose.yaml

Task 6 Intro to the Docker Socket

Question	Answer
What does the term "IPC" stand for?	Interprocess Communication
What technology can the Docker Server be equalled to?	API

Task 7 Practical

Connect to the machine. What is the name of the container that is currently running?

Answer: **cloudisland**

Command: **docker ps**

```
cmnatic@thm-intro-to-docker:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
0f24bed8b5ef   cloudisland "tail -f /dev/null"     20 months ago Up 3 minutes          CloudIsland
cmnatic@thm-intro-to-docker:~$
```

Use Docker to start a web server with the "webserver" image (no quotations). You will need to run the container with port 80.

After starting the container, try to connect to https://LAB_WEB_URL.p.thmlabs.com/ in your browser. What is the flag?

Answer: **THM{WEBSERVER_CONTAINER}**

→ First i tried getting the container id for web server by listing all containers. As you can see from the status, the container is not running

Command: **docker ps -a**

```
cmnatic@thm-intro-to-docker:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS        NAMES
73de43b5b4ee   webserver  "apache2ctl -D FOREG-"  20 months ago Exited (137) 20 months ago          clever clarke
a16c0f07ad09   0006d36bde5f "/bin/sh -c 'echo \"<_\" 20 months ago Exited (127) 20 months ago          romantic ptolomy
0f24bed8b5ef   cloudisland "tail -f /dev/null"     20 months ago Up 12 minutes          CloudIsland
cmnatic@thm-intro-to-docker:~$
```

→ Then i started the webserver container

Command: **docker start 73de43b5b4ee**

- Where 73de43b5b4ee is the web server container id

→ Then confirmed it is now running

Command: `docker ps -a`

```
cmnatic@thm-intro-to-docker:~$ docker start 73de43b5b4ee
73de43b5b4ee
cmnatic@thm-intro-to-docker:~$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
73de43b5b4ee	webserver	"apache2ctl -D FOREG..."	20 months ago	Up 11 seconds	0.0.0.0:80->80/tcp, :::80->80/tcp
a16c6f07ad09	clever clarke	"/bin/sh -c 'echo \<..."	20 months ago	Exited (127) 20 months ago	
0f24bed8b5ef	romantic ptolomy	"tail -f /dev/null"	20 months ago	Up 18 minutes	

```
cmnatic@thm-intro-to-docker:~$
```

→ I clicked on the link and i got my flag



END!!!