

# Exercise Worksheet

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From the Course:

Understanding Docker Run, Dockerfile, Docker-Compose for Beginners

Your first Dockerfile Step by Step

Let's create this Dockerfile:

```
FROM php:7.2-cli

RUN mkdir /myproject
COPY index.php /myproject
WORKDIR /myproject
CMD php index.php
```

And also this index.php file in the same directory:

```
<?php

echo "hello world \n\n";
```

Now go into the folder where the Dockerfile is located at.

```
docker build -t myphpapp .
```

- “build” builds a new image
- -t is a tagging. In this case “myphpapp”, you can later find it.
- “.” is telling where the Dockerfile is located at

```
docker run myphpapp
```

- Should print out “hello world” with two line breaks
- Ends the container immediately, the process “php index.php” has finished
- “CMD php index.php” opens this upon spin up of the container

```
docker image ls
```

- List all the images
- See on top your newly created image

```
docker ps -a
```

- List the containers

```
docker rm container_identifier
```

- Remove the container from the myphpapp

```
docker rmi myphpapp
```

- rmi will delete an image
- And all depending images if they are not necessary anymore