

Exercise Worksheet

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From the Course:

Understanding Docker Run, Dockerfile, Docker-Compose for Beginners

Ship your Web-Application using Apache and PHP as Docker container with a Dockerfile

Let's create a Docker image and run this image as container with an Apache with PHP pre-installed. Then serve our index.php from the previous example.

Change the Dockerfile to:

```
FROM php:7.2-apache
COPY index.php /var/www/html
```

Then run the following commands:

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

- This will build an image myphpapp:latest
- Will copy the index.php from the host inside the container in the directory /var/www/html
- Will package everything

```
docker run --name myphp-apache -p 8080:80 myphpapp
```

- Will run the image myphpapp image
- Open the apache inside the image
- Bind port 8080 on the host to port 80 on the guest
- Will give the container the name "myphp-apache"

<http://localhost:8080>

- Should bring up the "hello world" from the index.php
- Changing the index.php on the host should not change it on the guest – it's baked into the image
- If you want a live version you need to volume-mount it into the container

```
ctrl+c
```

- To stop the container

```
docker rm -f myphp-apache
```

- To remove the container

```
docker rmi myphpapp
```

- To remove the image for now