



Docker - Hello World

BOJAN ZIVKOVIC

What is a Docker?

- ▶ Docker makes development efficient and predictable
- ▶ Docker takes away repetitive, mundane configuration tasks and is used throughout the development lifecycle for fast, easy and portable application development - desktop and cloud.
- ▶ Docker's comprehensive end to end platform includes UIs, CLIs, APIs and security that are engineered to work together across the entire application delivery lifecycle.
- ▶ Docker works on almost any Operative System and CPU

What can you do with Docker ?

- ▶ **Build** - Get a head start on your coding by leveraging Docker images to efficiently develop your own unique applications on Windows, Linux and Mac. Create your multi-container application using Docker Compose.
- ▶ **Share** - Leverage Docker Trusted Content, including Docker Official Images and images from Docker Verified Publishers from the Docker Hub repository.
- ▶ **Run** - Deliver multiple applications hassle free and have them run the same way on all your environments including design, testing, staging and production - desktop or cloud-native.

What is a Docker container?

A container is a sandboxed process on your machine that is isolated from all other processes on the host machine.

- ▶ Is a runnable instance of an image. You can create, start, stop, move, or delete a container using the DockerAPI or CLI.
- ▶ Can be run on local machines, virtual machines or deployed to the cloud.
- ▶ Is portable (can be run on any OS)
- ▶ Containers are isolated from each other and run their own software, binaries, and configurations.

What is a Docker image?

- ▶ When running a container, it uses an isolated filesystem. This custom filesystem is provided by a **container image**.
- ▶ The image contains the container's filesystem, it must contain everything needed to run an application - all dependencies, configuration, scripts, binaries, etc.
- ▶ The image also contains other configuration for the container, such as environment variables, a default command to run, and other metadata.

What is a Docker Hub?

- ▶ Docker Hub is the world's easiest way to create, manage, and deliver your teams' container applications.

Docker Desktop?

- ▶ Visual way to containerize your applications.

Docker CLI

```
$ docker build -t getting-started .  
$ docker run getting-started
```


Docker File

```
# syntax=docker/dockerfile:1
FROM node:12-alpine
WORKDIR /app
COPY . .
CMD ["node", "src/index.js"]
```

Questions

Thank You for attending
Docker Brown Bag