

Docker Workshop

Application in the context of practical use-case scenarios

Preface

The purpose of this document is to include all necessary resources regarding the Docker workshop including guidelines, links, and general information. The purpose of this document is to not create another theoretical piece of documentation about the given topic, but to rather complement the practical application in the context of the given workshop.

Docker Guidelines and Documentation

As there are already plenty resources to find for Docker, this subsection is only providing a curated list of resources that may be helpful when working with Docker:

- Official Docker Documentation: <https://docs.docker.com/>
- Docker Hub: <https://hub.docker.com/>
- Official Docker 101 Tutorial: <https://www.docker.com/101-tutorial/>
- Docker CLI Cheat Sheet (PDF): https://docs.docker.com/get-started/docker_cheatsheet.pdf
- Extended Docker Cheat Sheet: <https://dockerlabs.collabnix.com/docker/cheatsheet/>

Environment and Set-Up

Basically, Docker can be installed on all known operating systems such as Windows, macOS and especially on any Linux derivative. This allows to use Docker locally on your machine, and theoretically do everything that Docker promises as a software. In case a local installation is not possible, the official Docker team provides a service for testing Docker by using a time-limited session that provides you access to an environment running Docker in the cloud.

Below, you can find a table with all necessary information:

Environment Type	Resource/Link	Additional Information
Local Installation	https://docs.docker.com/engine/install/	Download and Installation of the Docker engine on your local machine. Depending on the usage, this may incur costs.
Docker Playground	https://labs.play-with-docker.com/	An interactive playground to try out Docker in the cloud. No installation needed. To use this service, registration and/or login is required. The registration is free, and the login is also possible via third-party authenticators. Maximum duration of one session is 4 hours