

## Docker - Fundamentals (DKE)

**ID** DKE **Price** 2,700.— €(excl. tax) **Duration** 3 days

### Who should attend

- Software developers
- Software architects
- System administrators
- DevOps engineers

- CI/CD with and for containers
- Container Orchestration

### Prerequisites

- (optional) Some experience with Terminal/Bash
- (optional) Some experience with Docker

### Course Objectives

The course teaches the usage of Docker and provides technical background for it. On the first day, we cover use cases and basics of containers. The use cases provide insight into situations where containers are useful. The basics will enable participants to use containers confidently. The second day includes the creation of self-created images, as well as a deep insight into debugging with containers. With that, errors that can occur during the creation and operation of containers can be quickly found and fixed. The third day covers more in-depth topics as well as the use of containers in development environments, CI/CD systems and clusters. Thus, the course is explicitly aimed at teams with different experience levels with Docker and containers.

### Course Content

- Basic concepts and use cases of containers
- Basics of images, volumes and networks
- Implementing service architectures with docker-compose
- Designing container-based applications
- Creating custom images (Dockerfile) with layers, caching and multistage
- Advanced debugging of containers
- Security Best Practices
- Containers on Windows
- Docker architecture with namespaces, cgroups and alternative runtimes
- Rootless Docker
- Container-based development environments

# About Fast Lane



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