

Docker in practice

Altkom Akademia's author training



Purpose of the training

The training is intended for everyone who would like to start his adventure with Docker, know its applications, and also to learn on his own how to use its basic functionalities.

It is especially aimed at the people interested in designing and developing systems and distributed applications.



Benefits of completing the training

Docker workshops allow to understand what is Docker and what is it used for, as well as how to acquire skills necessary to work with this technology. The course allows Clients to fully use Docker's potential to develop and maintain applications and systems in their own organisations.

Benefits from participation for an employee

At the training the participants will learn how to:

- install Docker on their own computers or use cloud solution,
- use readymade images and create their own,
- use several images at the same time,
- use docker-compose tool,
- use Docker in systems of their own organisation and in developing their own applications,
- make use of project patterns and good practice thanks to which developing distributed systems becomes more approachable and efficient.



Expected Listener Preparation

Basic skill of working in a terminal, basic knowledge of systems from Linux family, as well as basic

knowledge of network and computer systems functioning.



Training Language

- Training: English
- Materials: English



Training Includes

- 2 days of work with a trainer (14h)
- Access to training and supplementary materials
- Trainer's supervision
- Contact with community



Duration

2 days / 14 hours

Training agenda

Docker theory

- Sample applications
- Main components
- Architecture

Docker installation

- Windows Pro/Enterprise / MacOS
- Debian

Working with Docker - command line

- Images
- Repository
- Launching containers
- Opening containers to external movement

- Disk resources

Working with Docker - Dockerfile

- Creating Dockerfile
- Discussing the syntax
- The structure of an image
- Working with tags and repository
- Expanding images

Working with Docker - docker-compose

- Creating docker-compose.yml file
- Discussing the syntax
- Setting up disk resources
- Network configuration

Project patterns

Introduction to orchestration