

# Docker for developers in Java




Course code: JAVADOCKER

The course focuses on wrapping a Java application inside a Docker image and then running it inside a Docker container. Next we will look at the benefits of Native applications and last but not least the production setup, where applications usually run in a Kubernetes environment.

Affiliate	Duration	Course price	ITB
Praha	2	14 400 Kč	20
Brno	2	14 400 Kč	20
Bratislava	2	660 €	20

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
 27.02.2025	2	14 400 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
 27.02.2025	2	660 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
 27.02.2025	2	14 400 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT

The prices are without VAT.

h4 id="required-input-knowledge">Required input knowledge

- The course assumes knowledge and experience with programming in Java at the level of the JAVAPROG2 course

## Teaching methods

- Expert explanation with practical examples, exercises on computers.

## Studying materials

- Printed presentations of the subject matter.

## Course syllabus

Docker & Java app

- Correct Docker image with Java
- --Memory settings and related Java support
- Multi-stage builds

Dockerizing the Spring Boot application

- Using JIB plugin
- Using Paketo buildpack
- Using the Fabric8 Maven plugin
- Layered image
- Distroless image
- Variable settings

Spring Native / Quarkus

- Native applications
- Build Native applications into Docker container

Dockerizing the WAR application

- Docker & Tomcat

Production settings

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# Docker for developers in Java

- Spring Boot Actuator &healthcheck / liveness &readiness probe
- Spring Cloud Kubernetes

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