

# 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.

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

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

#### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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