SEBASTIAN
DASCHNER

CLOUD NATIVE APPLICATIONS
WITH DOCKER AND KUBERNETES

ONLINE LIVE STREAMING

NOVEMBER 23-25, 2020

ABOUT THIS SEMINAR

You want to maximize the efficiency, agility and "production-readiness" of your enterprise environment?

Are you thinking about migrating operations to containers and orchestration powered by Kubernetes?

Would you like to move your operational environment to cloud providers or a managed in-house solution?

Do you want your developers to get guided hands-on experience using this technology?

A lot of Enterprises migrate their runtime environments to platforms that are based on Docker and Kubernetes. Container technologies in combination with orchestration provide significant advantages in the way companies deploy and operate their enterprise software.

This 3-day hands-on workshop covers the whole topic of containers and container orchestration, realized with Docker and Kubernetes. We will see the motivations behind and benefits of Docker and Kubernetes, and how to effectively develop, deliver and operate enterprise applications in an Kubernetes environment.

The hands-on parts give attendees a first experience and the confidence to operate the technologies themselves in project situations.

WHO SHOULD ATTEND

• Software developers and architects who face the opportunity and challenge of moving enterprise applications to modern, containerized environments.
• Developers who want to learn the nuts and bolts of putting applications into containers.

WHAT YOU WE LEARN

• Packaging, distributing and running applications in Docker containers
• Installing and configuring containerized application
• Deploying enterprise applications as Kubernetes pods, deployments and services
• How to leverage Kubernetes' production-readiness
• Configuring containerized and orchestrated applications
• Realizing persistence in cluster environments
• Accessing external systems
• Troubleshooting containers and orchestration environments

AUDIENCE

Architects, developers, and anyone comfortable writing code.

Software to be installed in the laptop:

The attendees do bring their own laptops with the following software installed:

- JDK 8 or newer
- Maven 3
- Docker
- Minikube & kubectl CLI
- At least 4 GB RAM, better more

Outline

1. Containers

• Introduction
• Motivation, Concepts
• Containers vs. VMs

2. Docker

• Motivation, Concepts
• Container Lifecycle
• Dockerfiles, Images, Copy-On-Write File System
• Volumes
• Environments
• Networking
• Registries
• Troubleshooting

3. Container Orchestration

• Motivation
• Concepts

4. Kubernetes

• Motivation, Concepts, Architecture
• Resources, YAML Definitions
• Pods
• Services, Deployments
• Usage, kubectl
• Rollouts
• Zero-Downtime Deployments
• Endpoints, External Services, Service Discovery
• Configuration, ConfigMaps, Secrets
• Namespaces
• Troubleshooting

4. Advanced Concepts

• Stateful Sets, Persistent Volumes
• Horizontal Autoscaling
• N-1 Compatibility
• Init Containers
• Outlook: Service meshes

SPEAKER

Sebastian Daschner is a Java Developer Advocate at IBM, a consultant, author, and trainer. He is the author of the book 'Architecting Modern Java EE Applications'. Sebastian is participating in the JCP, helping forming the future standards of Java EE, serving in the JAX-RS, JSON-P and Config Expert Groups and collaborating on various open source projects. For his contributions in the Java community and ecosystem he was recognized as a Java Champion, Oracle Developer Champion and double 2016 JavaOne Rockstar. Besides Java, Sebastian is also a heavy user of cloud native technologies. He evangelizes computer science practices on https://blog.sebastian-daschner.com, his newsletter, and on Twitter via @DaschnerS. When not working with Java, he also loves to travel the world, either by plane or motorbike.

INFORMATION

PARTICIPATION FEE

€ 1350

The fee includes all seminar documentation.

SEMINAR TIMETABLE

9.30 am - 1.00 pm
2.00 pm - 5.00 pm

HOW TO REGISTER

You must send the registration form with the receipt of the payment to:
info@technologytransfer.it

TECHNOLOGY TRANSFER S.r.l.
Piazza Cavour, 3 - 00193 Rome (Italy)

PAYMENT

Wire transfer to:
Technology Transfer S.r.l.
Banca: Cariparma
Agenzia 1 di Roma
IBAN Code:
IT 03 W 06230 03202 000057031348
BIC/SWIFT: CRPPIT2P546

GENERAL CONDITIONS

DISCOUNT

The participants who will register 30 days before the seminar are entitled to a 5% discount.

If a company registers 5 participants to the same seminar, it will pay only for 4.

Those who benefit of this discount are not entitled to other discounts for the same seminar.

CANCELLATION POLICY

A full refund is given for any cancellation received more than 15 days before the seminar starts. Cancellations less than 15 days prior the event are liable for 50% of the fee. Cancellations less than one week prior to the event date will be liable for the full fee.

CANCELLATION LIABILITY

In the case of cancellation of an event for any reason, Technology Transfer's liability is limited to the return of the registration fee only.

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November 23-25, 2020

Registration fee:
€ 1350

first name ....

surname ....

job title ....

organisation ....

address ....

postcode ....

city ....

country ....

telephone ....

If registered participants are unable to attend, or in case of cancellation of the seminar, the general conditions mentioned before are applicable.

fax ....

e-mail ....

Stamp and signature

*Send your registration form
with the receipt of the payment to:*
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