

## Training:

# Docker, Kubernetes & Security in Enterprise Environments

Date of the training: **March 16-17, 2020** in Heidelberg, Germany

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## Overview

Container, Microservices, Kubernetes - all of those terms heavily dominate modern application development teams and processes. This training will explain the key technologies behind those terms and focus on the following main questions:

- How strong and reliable are the isolation capabilities of Docker/Linux/OS containers?
- How do containers affect typical application and network architectures?
- How does Kubernetes affect application deployments and workflows?
- How is “security” integrated into those paradigms?
- What additional attack surface and security challenges are introduced by the changed development landscape and additional tools?

All agenda topics will be supported by practical exercises and/or demos. At the end of the training, each attendee will have knowledge about the described buzzwords and tools and understand how they impact application architectures, development, and security posture. Additionally, a fully functional Kubernetes cluster is built, as well as relevant security measures implemented and discussed.

## Who should attend this training?

IT Security Professionals who want to:

- understand the technology behind the recent and common buzzwords listed above,
- be able to evaluate the isolation capabilities of container solutions,
- get ideas on how to integrate security into typical DevOps environments and continuous workflows.

Software Architects and Developers who want to:

- learn about potential security vulnerabilities in common practices and tools,
- understand the concerns of the security people,
- improve their development chain by adding automated security checks.

Due to the large amount of tools and technologies, this training will not be able to cover security aspects of every single technology in detail. However, we are happy to receive specific questions before the training to potentially prepare additional material and you will get an overview how to approach unknown/new technologies from a security perspective.

## Requirements

The attendees should have:

- intermediate knowledge of the Linux bash and a command line-based text editor (e.g. nano or vim)
- a system with WLAN and an SSH client (i.e. PuTTY) which is able to connect via SSH to systems in the Internet.

For the exercises, we provide the needed infrastructure in a cloud environment which the attendees can connect to via SSH.

## About the Trainers:

**Simon Janz** completed his bachelor studies in the areas of computer networking and IT security at the Hochschule Furtwangen University. He works as Security Analyst at ERNW Enno Rey Netzwerke GmbH with focus on pentesting, cloud environments and modern container solutions, as for example Docker and Kubernetes. He also audits and advises big and very big companies in the area of IT security.

**Jan Harrie** is a security analyst of the German IT security provider ERNW Enno Rey Netzwerke GmbH. He has over 5 years of experience in cyber security from a builder as well as from a breaker perspective. He designs software lifecycles, performs trainings, audits infrastructures, conducts penetration tests and defines risk reduction strategies for modern IT landscapes.

## Booking

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## Contact

**Need assistance?** Don't hesitate to call us. We are fluent in English and German.  
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