

Training:

Docker, Kubernetes & Security in Enterprise Environments

Date of the training: **June 27-28, 2022** in Heidelberg, Germany

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Overview

Container, Microservices, Kubernetes - all of these terms dominate the modern application development teams and processes. In this course you will learn the technological basics behind those terms and find answers to the following questions:

- How strong/reliable are the isolation mechanisms behind Docker/Linux/OS-Containers?
- How do Containers affect the typical application and network landscapes?
- How does Kubernetes affect application deployment and operations?
- What are potential interfaces between "security" and these paradigms?
- What additional security challenges arise from the changed development landscape and new toolchains?

All topics are supported by practical exercises. Throughout the workshop participants will obtain an in-depth knowledge of the described topics and their impact on application architectures, development, and security. As part of the workshop, all participants will create a fully functional Kubernetes Cluster and apply and test the learned skills.

Who should attend this training?

IT security professionals who

- want to understand the technology behind the buzzwords Docker, Containers, Microservices and Kubernetes
- want to be able to evaluate the degree of isolation provided by container solutions
- want to learn how security can be integrated into typical DevOps environments and "Continuous Workflows"

Software architects and developers who

- want to learn about potential weaknesses in common tools and processes.
- want to understand the concerns of the security department.
- want to improve development processes through 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:

Florian Bausch studied Digital Forensics and wrote his Master thesis about a forensic analysis of Ceph (distributed storage). Since 2019 he has been working as an incident responder and pentester at ERNW Research GmbH.

Sebastian Funke is an IT Security Analyst and Researcher from ERNW Enno Rey Netzwerke GmbH with more than 6 years of experience. His daily work comprises a wide spectrum of security assessments in large enterprise landscapes with a focus on classic penetration tests of networks, desktop and web applications, as well as container and (multi-) cloud environments. During research time he enjoys/enjoyed working on Privacy Enhancing Technologies for Internet of Things, automation of security assessments in high-level cloud environments (Azure and Kubernetes), as well as the general optimization of his pentesting tools, tactics and procedures (TTPs). Academically, Sebastian holds a M.Sc. in IT Security from the Technical University in Darmstadt.

Sebastian Sartor is an IT Security Consultant and Researcher at ERNW Enno Rey Networks GmbH. During his studies, he mainly dealt with network security and continued this at ERNW, where he conducts cloud and Kubernetes security assessments among other areas of responsibility. He holds an M.Sc. in IT Security from the Technical University of Darmstadt.

Booking

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