

Kubernetes Advanced

Complex Deployments, Network Configuration, and Interfaces

With the rise of microservices and distributed applications, Kubernetes has quickly established itself as the leading orchestration tool for containers. Despite the existing basic understanding and initial successful use of Kubernetes, many teams encounter challenges when trying to optimize and extend their infrastructures.

This Kubernetes Advanced Training not only deepens the knowledge of the tool, but also highlights advanced aspects such as fine-grained resource management, security policies and cluster management.

With distributed systems such as those managed by Kubernetes, complex configurations and dependencies can arise. This course offers you the opportunity to master these complexities and run Kubernetes more efficiently and securely.

You will learn how to implement advanced network policies or ingress rules, manage traffic efficiently and run stateful applications in a Kubernetes environment. You will also deepen your knowledge of security aspects, such as the management of pod security or admission controllers.

In this Kubernetes Advanced Training you will get the tools to raise your Kubernetes clusters to a higher level of efficiency, security and stability.

Course Contents

- Ingress in detail and Ingress rules
- Network Policies
- Deeper understanding of CNI plugins based on Calico and Flannel
- Insight into CSI (Container Storage Interface) and CRD (Custom Resource Definition)
- Kubernetes operator concepts
- Complex deployments with resource management, auto-scaling and PodPriority
- PodSecurityPolicies and Secrets
- RBAC and login concepts

E-Book The detailed digital documentation package, consisting of an e-book and PDF, is included in the price of the course.

Target Group

The course is aimed at anyone who wants to gain a deep insight into the features and functionality of Kubernetes and is interested in the technical aspects of implementation and operation.

Prerequisites

Basic knowledge of Linux as well as basic network, container and IT knowledge is required. In addition, you should have the knowledge taught in the courses Kubernetes - Orchestration in Detail and Docker Fundamentals - Getting started in the world of Docker.

Alternatives

Book this course together with *Kubernetes – Orchestration in Detail* as *PowerPackage Kubernetes* for the discounted price of € 2.795,-.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.experteach-training.com/go/DOSB

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training		Prices, excl. of V.A.T.	
Classes in Germany	2 Days	€ 1,795	
Online Training	2 Days	€ 1,795	
Date/course venue	Course language German		
05/06-06/06/25	04/09-05/09/25		
05/06-06/06/25	04/09-05/09/25		

Status 05/15/2025



Our Training Offer for You:



Classroom Training

The live training experience in our training centers or on your premises on-site.



Online Training

Attend your course in online mode – without travel and accommodation expenses and effort.



Hybrid Training

Classroom & online in one course – choose how you wish to participate in your training event.



In-house Training

We create your customized training concepts for your project.



Guaranteed Course Dates

ExperTeach guaranteed course dates allow for secure and reliable planning.

Awards Won by ExperTeach



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