

DevOps Engineering on AWS

DevOps Engineering on AWS teaches you how to use the combination of DevOps cultural philosophies, practices, and tools to increase your organization's ability to develop, deliver, and maintain applications and services at high velocity on AWS. This course covers continuous integration (CI), continuous delivery (CD), infrastructure as code, microservices, monitoring and logging, and communication and collaboration. Hands-on labs give you experience building and deploying AWS CloudFormation templates and CI/ CD pipelines that build and deploy applications on Amazon Elastic Compute Cloud (Amazon EC2), serverless applications, and container-based applications. Labs for multipipeline workflows and pipelines that deploy to multiple environments are also included.

Course Contents

- Module 0: Course overview
- Module 1: Introduction to DevOps
- Module 2: Infrastructure Automation
- Module 3: AWS Toolkits
- Module 4: Continuous integration and continuous delivery (CI/CD) with development tools
- Module 5: Introduction to Microservices
- Module 6: DevOps and containers
- Module 7: DevOps and serverless computing
- Module 8: Deployment strategies
- Module 9: Automated testing
- Module 10: Security automation
- Module 11: Configuration management
- Module 12: Observability
- Module 13: Reference architecture (Optional module)
- Module 14: Course summary

You have access to the labs for another 14 days after the course. This way you can repeat exercises or deepen them individually.

E-Book You will receive the original course documentation by Amazon Web Services as an e-book.

Target Group

- DevOps engineers
- DevOps architects
- Operations engineers
- System administrators
- Developers

Prerequisites

- Previous attendance at the Cloud Operations on AWS or Developing on AWS courses
- Working knowledge of one or more high-level programing languages, such as C#, Java, PHP, Ruby, Python
- Intermediate knowledge of administering Linux or Windows systems at the command-line level
- Two or more years of experience provisioning, operating, and managing AWS environments

Practical lab exercises with the AWS environment are part of the training. In order to be able to carry out these successfully, an internet-capable notebook (Windows, Linux, MacOS) is a prerequisite.

Important: Therefore, please bring your notebook to the course! If this is not possible, please contact us in advance.

Status 03/08/2024

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This Course in the Web



■ Sou can find the up-to-date information and options for ordering

www.experteach-training.com/go/AWDO

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an 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	3 Days	€ 2,095
Online Training	3 Days	€ 2,095
Date/course venue	Course language German	
28/05-30/05/24 🖵 Online		

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Module 1: The cloud journey

Common off-cloud architecture Introduction to Cloud Air Monolithic architecture Migration to the cloud Guardrails The six R's of migration The Twelve-Factor Application Methodology Architectural styles and patterns **Overview of AWS Services** Interfacing with AWS Services Authentication Infrastructure as code and Elastic Beanstalk Demonstration: Walk through creating base infrastructure with AWS CloudFormation in the AWS console Hands-on lab 1: Deploy your monolith application using AWS Elastic Beanstalk Module 2: Gaining Agility DevOps CI/CD Application configuration Secrets management CI/CD Services in AWS Demonstration: Demo AWS Secrets Manager Module 3: Monolith to MicroServices Microservices Serverless A look at Cloud Air Microservices using Lambda and API Gateway SAM Strangling the Monolith Hands-on lab: Using AWS Lambda to develop microservices Module 4: Polyglot Persistence & Distributed Complexity Polyglot persistence DynamoDB best practices Distributed complexity Step functions Module 5: Resilience and Scale Decentralized data stores Amazon SOS Amazon SNS Amazon Kinesis Streams AWS IoT Message Broker



