



DevOps Engineering on AWS with AWS Jam PowerPackage

DevOps Engineering on AWS with AWS Jam

With this PowerPackage you book the three-day course DevOps Engineering on AWS with an AWS Jam Day.

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 multi-pipeline 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
- AWS Jam

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

- Previously attended the Systems Operations on AWS course.
- Previous attendance of the Developing on AWS course.
- Practical knowledge of at least one high-level programming language (C#, Java, PHP, Ruby, Python, etc.)
- Advanced beginner skills in managing Linux or Windows systems at command line level.
- Practical AWS experience, both with the AWS Management Console and with the AWS command line interface.

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

This Course in the Web



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

www.expertech-training.com/go/JMDO

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	4 Days	€ 2,485
Online Training	4 Days	€ 2,485
Date/course venue	Course language German	
28/05-31/05/24 <input type="checkbox"/> 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 SQS
Amazon SNS
Amazon Kinesis Streams
AWS IoT Message Broker

Serverless event bus
Event sourcing and CQRS
Designing for resilience in the cloud
Hands-on lab: Exploring the AWS messaging options

Module 6: Security and Observability

Serverless Compute with AWS Lambda
Authentication with Amazon Cognito
Debugging and traceability
Hands-on lab: Developing microservices on AWS
Hands-on lab 8: Automating deployments with CloudFormation

AWS Jam

Participate in team based challenges in a real AWS environment
Compete with your colleagues in a gamified, hands-on learning experience
Apply your learning from the course on various AWS services

