



Advanced Developing on AWS

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The **Advanced Developing on AWS** course uses the real-world scenario of taking a legacy, on-premises monolithic application and refactoring it into a serverless microservices architecture. This three-day advanced course covers advanced development topics such as architecting for a cloud-native environment; deconstructing on-premises, legacy applications and repackaging them into cloud-based, cloud native architectures; and applying the tenets of the Twelve-Factor Application methodology.

Course Contents

- Module 1: The cloud journey
- Module 2: Gaining Agility
- Module 3: Monolith to MicroServices
- Module 4: Polyglot Persistence & Distributed Complexity
- Module 5: Resilience and Scale
- Module 6: Security and Observability

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

This course is intended for experienced software developers who are already familiar with AWS services.

Prerequisites

We recommend that attendees of this course have:

- In-depth knowledge of at least one high-level programming language
- Working knowledge of core AWS services and public cloud implementation
- Completion of the Developing on AWS classroom training, and then a minimum of 6 months of application of those concepts in a real world environment

Alternatives

Book this course together with *AWS Jam for Advanced Developing on AWS – Practical day for team-based learning* as *Advanced Developing on AWS with AWS Jam Training* for the discounted price of **€ 2.485,-**.

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/AWAD

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	3 Days	€ 2,095
Online Training	3 Days	€ 2,095
Dates upon request		

Status 05/15/2025



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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

