



Architecting on AWS with AWS Jam PowerPackage

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

Architecting on AWS is for solutions architects, solution-design engineers, and developers seeking an understanding of AWS architecting. In this course, you will learn to identify services and features to build resilient, secure and highly available IT solutions on the AWS Cloud. Architectural solutions differ depending on industry, types of applications, and business size.

AWS Authorized Instructors emphasize best practices using the AWS Well-Architected Framework, and guide you through the process of designing optimal IT solutions, based on real-life scenarios. The modules focus on account security, networking, compute, storage, databases, monitoring, automation, containers, serverless architecture, edge services, and backup and recovery. At the end of the course, you will practice building a solution and apply what you have learned with confidence.

This course includes presentations based on use cases, group discussions, demonstrations, assessments and hands-on labs. You have access to the labs for another 14 days after the course. This way you can repeat exercises or deepen them individually.

Course Contents

- Module 0: Introductions & Course Map review
- Module 1: Architecting Fundamentals Review
- Module 2: Account Security
- Module 3: Networking, Part 1
- Module 4: Compute
- Module 5: Storage
- Module 6: Database Services
- Module 7: Monitoring and Scaling
- Module 8: Automation
- Module 9: Containers
- Module 10: Networking Part 2
- Module 11: Serverless Architecture
- Module 12: Edge Services
- Module 13: Backup and Recovery
- AWS Jam Day

This course includes presentations based on use cases, group discussions, demonstrations, assessments and hands-on labs. You will have access to the labs for a further 14 days after the course. This allows you to 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:

- Solutions Architects
- Solution Design Engineers
- Anyone who needs to understand the scope of cloud architectures

Prerequisites

We recommend that attendees of this course have:

- Taken the AWS Cloud Practitioner Essentials training
- Working knowledge of distributed systems and multi-tier architectures
- Familiarity with general networking and cloud computing concepts

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.

Please note our overview AWS Trainings!

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/JMAR

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	€ 2,285
Online Training	4 Days	€ 2,285
Date/course venue	Course language German	
14/05-17/05/24 <input type="checkbox"/> Online	11/06-14/06/24	<input type="checkbox"/> Online

Status 04/03/2024

Architecting on AWS with AWS Jam

Amazon Web Services (AWS)



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Architecting on AWS with AWS Jam – PowerPackage

Module 0: Introductions & Course Map review

Welcome and course outcomes

Module 1: Architecting Fundamentals Review

AWS Services and Infrastructure

Infrastructure Models

AWS API Tools

Securing your infrastructure

The Well-Architected Framework

Hands-on lab: Explore Using the AWS API Tools to

Deploy an EC2 Instance

Module 2: Account Security

Security Principals

Identity and Resource-Based Policies

Account Federation

Introduction to Managing Multiple Accounts

Module 3: Networking, Part 1

IP Addressing

Amazon Virtual Private Cloud (VPC), Patterns and

Quotas

Routing

Internet Access

Network Access Control Lists (NACLs)

Security Groups

Module 4: Compute

Amazon Elastic Cloud Compute (EC2)

EC2 Instances and Instance Selection

High Performance Computing on AWS

Lambda and EC2, When to Use Which

Hands-On Lab: Build Your Amazon VPC Infrastructure

Module 5: Storage

Amazon S3, Security, Versioning and Storage Classes

Shared File Systems

Data Migration Tools

Module 6: Database Services

AWS Database Solutions

Amazon Relational Database Services (RDS)

DynamoDB, Features and Use Cases

Redshift, Features, Use Cases and Comparison with RDS

Caching and Migrating Data

Hands-on Lab: Create a Database Layer in Your

Amazon VPC Infrastructure

Module 7: Monitoring and Scaling

Monitoring: CloudWatch, CloudTrail, and VPC Flow

Logs

Invoking Events

Elastic Load Balancing

Auto Scaling Options and Monitoring Cost

Hands-on Lab: Configure High Availability in Your

Amazon VPC

Module 8: Automation

CloudFormation

AWS Systems Manager

Module 9: Containers

Microservices

Monitoring Microservices with X-Ray

Containers

Module 10: Networking Part 2

VPC Peering & Endpoints

Transit Gateway

Hybrid Networking

Route 53

Module 11: Serverless Architecture

Amazon API Gateway

Amazon SQS, Amazon SNS

Amazon Kinesis Data Streams & Kinesis Firehose

Step Functions

Hands-on Lab: Build a Serverless Architecture

Module 12: Edge Services

Edge Fundamentals

Amazon CloudFront

AWS Global Accelerator

AWS Web Application Firewall (WAF), DDoS and

Firewall Manager

AWS Outposts

Hands-On Lab: Configure an Amazon CloudFront

Distribution with an Amazon S3 Origin

Module 13: Backup and Recovery

Planning for Disaster Recovery

AWS Backup

Recovery Strategies

Capstone Lab: Build an AWS Multi-Tier Architecture

