

# Architecting on AWS with AWS Jam (AWSA-AWS-JAM)

ID AWSA-AWS-JAM Price CHF 3,090.—(excl. VAT) Duration 4 days

## Who should attend

This course is intended for solutions architects, solution-design engineers, developers seeking an understanding of AWS architecting and individuals seeking the AWS Solutions Architect-Associate certification.

## Prerequisites

We recommend that attendees of this course have the following prerequisites:

- [AWS Cloud Practitioner Essentials \(CP-ESS\)](#), or
  - Working knowledge of distributed systems
  - Familiarity with general networking concepts
  - Familiarity with IP addressing
  - Working knowledge of multi-tier architectures
  - Familiarity with cloud computing concepts

## Course Objectives

- Identify AWS architecting basic practices.
- Explore using the AWS management tools: The AWS Console, Command Line Interface (CLI), and CloudFormation in a lab environment.
- Examine the enforcement of accounts security using policies.
- Identify the elements that build an elastic, secure, virtual network that includes private and public subnets.
- Practice building an AWS core networking infrastructure.
- Determine strategies for a layered security approach to Virtual Private Cloud (VPC) subnets.
- Identify strategies to select the appropriate compute resources based on business use-cases.
- Practice building a VPC and adding an Elastic Cloud Compute (EC2) instance in a lab environment.
- Practice installing an Amazon Relational Database Service (RDS) instance and an Application Load Balancer (ALB) in the VPC you created.
- Compare and contrast AWS storage products and services, based on business scenarios.
- Compare and contrast the different types of AWS database services based on business needs.

- Practice building a highly available, auto-scaling database layer in a lab.
- Explore the business value of AWS monitoring solutions.
- Identify and discuss AWS automation tools that will help you build, maintain and evolve your infrastructure.
- Discuss network peering, VPC endpoints, gateway and routing solutions based on use-cases.
- Discuss hybrid networking configurations to extend and secure your infrastructure.
- Discuss the benefits of microservices as an effective decoupling strategy to power highly available applications at scale.
- Explore AWS container services for the rapid implementation of an infrastructure-agnostic, portable application environment.
- Identify the business and security benefits of AWS serverless services based on business examples.
- Practice building a serverless infrastructure in a lab environment.
- Discuss the ways in which AWS edge services address latency and security.
- Practice building a CloudFront deployment with an S3 backend in a lab environment.
- Explore AWS backup, recovery solutions, and best practices to ensure resiliency and business continuity.
- Build a highly available and secure cloud architecture based on a business problem, in a project-based facilitator-guided lab.
- Work in a team environment to solve real AWS use-case challenges in an AWS Jam.

## Course Content

- Introductions & Course Map review
- Architecting Fundamentals Review
- Account Security
- Networking, Part 1
- Compute
- Storage
- Database Services
- Monitoring and Scaling
- Automation
- Containers
- Networking Part 2
- Serverless Architecture
- Edge Services

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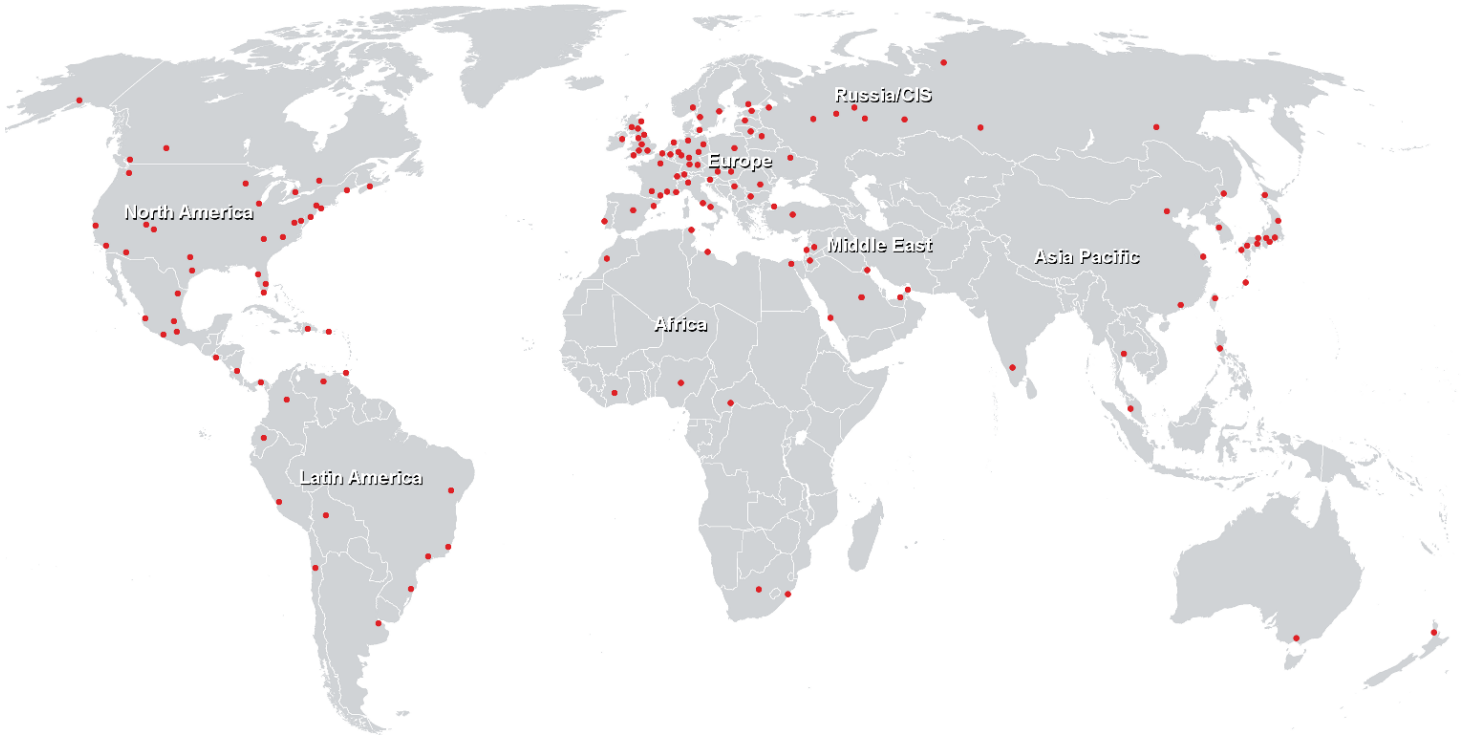
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- Backup and Recovery
- Capstone Lab: Build an AWS Multi-Tier Architecture
- AWS Jam



## Training Centres worldwide



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