



Architecting on AWS Course

Introduction

This official AWS 3-day bootcamp is designed to teach you how to optimize the use of the AWS cloud by understanding AWS services and how these fit into cloud-based solutions. Together we'll walk you through each of the major areas of AWS, step by step.

Since architectural solutions may differ depending on industry, type of applications and size of business, this course emphasizes AWS cloud best practices and recommended design patterns to help students think through the process of architecting optimal cost-effective IT solutions on AWS. Since AWS introduces more than 1,400 new features and services annually, it is critical that you are proficient with the most recent innovations. We will practice how to effectively design and manage application infrastructure using real-life AWS virtual lab examples and walk you through case studies to showcase how some AWS customers have designed their infrastructures, implemented strategies and selected services.



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Course Content

The Simplest Architectures

S3, Snowball & Glacier
Lifecycle Policies

Adding a Compute Layer

EC2 (AMIs, User Data, EBS, EFS)
Instance Tenancy & Pricing Models

Adding a Database Layer

Database Models & Management
RDS, DynamoDB, DMS
Lab 1: Deploying Apps on AWS

Networking in AWS

VPC, Subnets, IG and NAT
Security Groups & NACLs
VPN, VPC Peering, DX
Load Balancing/HA (ALB, NLB, ELB)
Lab 2: Creating a VPC

Identity & Access Management

Users, Groups, Roles and STS
Cognito & Organizations

Elasticity,

High Availability, Monitoring

CloudWatch, CloudTrail, VPC Logs
RDS (inc. Replicas), DynamoDB
Lab 3: Creating a HA Environment

Automation

CloudFormation
Systems Manager & OpsWorks
Elastic Beanstalk
Lab 4: Automating Infrastructure
Deployment with AWS
CloudFormation

Building Decoupled Architectures

SQS & SNS

Microservices & Serverless

ECS & Fargate containers
Lambda & Step Functions
API Gateway
Lab 5: Implementing Serverless

RTO/RPO & Backup Recovery

Disaster Planning & Recovery
AWS Storage Gateway
Compute, Network & Database
Redundancy

Optimizations & Review

Questions to Ask Yourself
Re-Architecting
Best Practices Review

Course Details

Study Mode

DAYTIME

Duration

3 Days (Bootcamp)

Delivery Method

Lectures & Hands-On Labs

Entry Requirements

Good Knowledge of English
AWS Technical Essentials or -
equivalent experience

Award

AWS Certified Solutions
Architect Associate

Partner



€ 1,800

Study Experience Includes:

Training by an Official AWS Authorized Instructor (AAI),
Official AWS Courseware (Digital), Official AWS Virtual Labs,
Official AWS Associate Practice Test, Official AWS Associate Exam.

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