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**Learning Style: Virtual Classroom**

**Provider: Amazon Web Services**

**Difficulty: Intermediate**

**Course Duration: 3 Days**

## Architecting on AWS



## About this Course:

Architecting on AWS covers the fundamentals of building IT infrastructure on AWS. The course is designed to teach solutions architects how to optimize the use of the AWS Cloud by understanding AWS services and how these services fit into cloud-based solutions. This course emphasizes AWS cloud best practices and recommended design patterns to help students think through the process of architecting optimal IT solutions on AWS. Case studies throughout the course showcase how some AWS customers have designed their infrastructures and the strategies and services they implemented.

This course does not include Exam Voucher if enrolled within the Master Subscription, however, you can request to purchase the Official Exam Voucher separately.

## Course Objectives:

- Make architectural decisions based on the AWS-recommended architectural principles and best practices.
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available.
- Leverage AWS managed services to enable greater flexibility and resiliency in an infrastructure.
- Make an AWS-based infrastructure more efficient in order to increase performance and reduce costs.
- Use the Well-Architected Framework to improve architectures with AWS solutions.

## Audience:

This course is intended for:

- Solutions Architects
- Solution Design Engineers

## Prerequisites:

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

- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts
- AWS Technical Essentials

## Course Outline:

This course is delivered through a mix of:

- Instructor-led Training

- Hands-on Labs

## Day 1

- The Simplest Architectures
- Adding a Compute Layer
- Adding a Database Layer
- Networking in AWS Part 1

## Day 2

- Networking in AWS Part 2
- AWS Identity and Access Management (IAM)
- Elasticity, High Availability, and Monitoring
- Automation

## Day 3

- Caching
- Building Decoupled Architectures
- Microservices and Serverless Architectures
- RTO/RPO and Backup Recovery Setup
- Optimizations and Review

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