Advanced Architecting on AWS (AWS-ARCH-ADV)

Duration: *3 Day(s)*

Course Overview

Building on concepts introduced in Architecting on AWS, Advanced Architecting on AWS is intended for individuals who are experienced with designing scalable and elastic applications on the AWS platform. Building on concepts introduced in Architecting on AWS, this course covers how to build complex solutions which incorporate data services, governance, and security on AWS. This course introduces specialized AWS services, including AWS Direct Connect and AWS Storage Gateway to support Hybrid architecture. It also covers designing best practices for building scalable, elastic, secure, and highly available applications on AWS.

Review this course online at https://www.alta3.com/courses/AWS-ADVARC

Objectives

- Design complex AWS solutions incorporating data services, governance, and security.
- Implement advanced networking and deployment management on AWS.
- Optimize use of AWS services like Amazon S3, DynamoDB, and ElastiCache for scalable data handling.
- Build resilient and high-performance architectures with AWS best practices.

Who Should Attend

- AWS Solutions Architects
- Cloud Application Designers
- IT Infrastructure Engineers
- Systems Administrators

Prerequisites

Architecting on AWS, achieved AWS Certified Solutions Architect - Associate

Course Outline

Lesson 1: Architecting on AWS Review

Lesson 2: AWS Account Management

Lesson 3: Advanced Networking on AWS

Lesson 4: Deployment Management on AWS

Lesson 5: Build a Hybrid Architecture

Lesson 6: Optimize your use of Amazon S3

Lesson 7: Leverage Amazon ElastiCache to handle and store data at scale

Lesson 8: Build a Failover Solution with Amazon Route 53 and Amazon RDS Read Replication

Lesson 9: AWS Snowball

Lesson 10: Amazon S3 Transfer Acceleration

Lesson 11: AWS Storage Gateway

Lesson 12: Backing up and archiving data on AWS

Lesson 13: Migrating databases into AWS

Lesson 14: Designing for Big Data

Lesson 15: Amazon DynamoDB for Big Data

Lesson 16: DynamoDB Streams

Lesson 17: DynamoDB for Big Data Design Patterns

Lesson 18: Design for Large Scale Applications

Lesson 19: Deployment with Elastic Beanstalk

Lesson 20: Build Resilient Architectures Part A

Lesson 21: CloudFront Content Delivery and Automating WAF Rules

Lesson 22: Encryption and Security of Data

Lesson 23: KMS Envelope Encryption

Lesson 24: Design for Performance