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Architecting on AWS - Accelerator

Course#:aws-arcacc
Duration:5 Days
Price:0.00

Course Description

This immersive, advanced-level, five-day course covers all aspects of how to architect for the AWS Cloud. Covering topics fromArchitecting on AWSandAdvanced Architecting on AWS, this course is intended to teach you how to design cloud architectures, from small-scale designs to large-scale, enterprise-level designs. Starting with the Well-Architected Framework, you will also learn important architecting information for AWS services. These include: compute, storage, database, networking, security, monitoring, automation, optimization, benefits of decoupling applications and serverless, building for resilience, and understanding costs.

Objectives

In this course, you will learn to:

Apply the AWS Well-Architected Framework
Manage multiple AWS accounts for your organization
Connect an on-premises data center to the AWS Cloud
Discuss billing implications of connecting multi-region VPCs
Move large data from an on-premises data center to AWS
Design large data stores for the AWS Cloud
Understand different architectural designs for scaling a large website
Protect your infrastructure from distributed denial of service (DDOS) attacks
Secure your data on AWS with encryption
Design protection of data at rest and data in transit
Enhance the performance of your solutions
Select the most appropriate AWS deployment mechanism

Audience

This course is intended for:

Solutions Architects who are new to designing and building cloud architectures

Data Center Architects who are migrating from on-premises environment to cloud architectures

Other IT/cloud roles who want to understand how to design and build cloud architectures

Prerequisites

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

AWS Cloud Practitioner Essentials
AWS Certified Solutions Architect Associate certification
Working knowledge of distributed systems
Familiarity with general networking concepts
Working knowledge of multi-tier architectures
Familiarity with cloud computing concepts

Content

Day 1

Building simple architectures
Choosing and adding compute layer
Choosing and adding a database layer
Networking Part 1

Day 2

Networking Part 2
Managing access to services
Managing large numbers of accounts
Design for elasticity, high availability, and monitoring
Automation for growth

Day 3

Deploying your architecture
Caching
Securing your data
Decoupling architectures
Optimizing the architecture

Day 4

Microservices and containers
Serverless Architecture
Avoiding failures and attacks
Networking Part 3
Understanding costs

Day 5

Migration strategies

RTO/RPO and Backup and Recovery

Final Review