

Advanced Architecting on AWS

Duration	Delivery Method	Level
3 days	Online / Instructor Led	Intermediate

Introduction:

Building on concepts introduced in the Architecting on AWS course, the Architecting on AWS Advanced Concepts course is designed for individuals who are experienced with designing scalable and elastic applications on the AWS platform. In this course, we cover how to build more complex solutions which incorporate data services, infrastructure configuration management, and security on AWS. This course introduces more specialised AWS services, including Amazon Elastic MapReduce, AWS OpsWorks, and AWS Elastic Beanstalk, as well as demonstrates design components for building scalable, elastic, secure, and highly available applications on AWS

Audience Profile

This course is intended for Individuals who are responsible for designing cloud infrastructure and reference architectures , Individuals who have attended Architecting on AWS course and Systems Engineers and Developers who are responsible for designing and implementing advanced architectures on AWS

Pre-requisite

- Attended Architecting on AWS
- Achieved AWS Certified Solutions Architect – Associate
- Working knowledge of architectural design
- Familiarity with cloud computing concepts
- Experience with general network architectures and services
- Experience with core AWS products and services, such as Amazon EC2 , Amazon S3, and Amazon RDS

Course Objectives

After completing this course, students will be able to:

- Manage multiple AWS accounts for your organisation
- Connect on-premises data centre to AWS cloud
- Discuss billing implications of connecting multi-region VPCs
- Move large data from on-premises data centre to AWS
- Design large datastores for AWS cloud
- Understand different architectural designs for scaling a large website
- Protect your infrastructure from DDoS attack

- Secure your data on AWS with encryption
- Design protection of data-at-rest as well as data-in-flight
- Enhance the performance of your solutions

Course Content

Session 1: AWS Account Strategies

- Advanced Network Architecture
- Designing Large Datastores for AWS

Session 2: Web Scale Applications

- Building Resilience
- Comprehensive Cloud Security

Session 3: Encryption and Key Management on AWS

- Security Data on AWS
- Designing for Performance