

ARCHITECTING ON AWS

Duration: 3 days; /21 hours; Instructor-led/
remote online training

Time: 9.00am – 5.00pm

**Break: 10.15am – 10.30am /3.15pm –
3.30pm**

Lunch: 1.00pm – 2.00pm

WHAT YOU WILL LEARN

AWS is the most popular and most widely used cloud platform in the world. This course, AWS Certified Solutions Architect - Associate, is designed to prepare administrators, engineers, architects, and consultants for designing workload deployments on the Amazon Web Services platform. This course will teach design principles, including strategies for networking, storage, DNS, DBaaS, monitoring, load balancing and much more. This Course will Deliver skills and knowledge needed to securely design highly available and scalable systems, and also provides a helping hand for the preparation for the AWS Certified Solutions Architect - Associate certification exam.

AUDIENCE

- Individuals who are responsible for designing cloud infrastructure and reference architectures
- Systems engineers and developers who are responsible for designing and implementing architectures on AWS.

PREREQUISITES

- Recommended: AWS Technical Essentials
- Attended AWS Essentials or have equivalent experience.
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures.
- Familiarity with cloud computing concepts

HANDS-ON-LABS

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises on AWS Cloud Infrastructure.

TRAINING PREPARES AUDIENCE FOR BELOW EXAM

AWS: AWS Certified Solutions Architect - Associate exam

METHODOLOGY

This program will be conducted with interactive lectures, PowerPoint presentation, discussions, and practical exercise.

COURSE OBJECTIVES

In this course you will learn about:

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

COURSE OUTLINES

Module 1: AWS Foundations

- Core AWS Computing
- AWS Storage
- Designing your AWS environment
- Event Driven Scaling
- Cloud Formation
- Cloud Front
- VPC
- Identity and Asset Management (IAM)

- SQS
- Route 53

Module 2: Designing AWS-based Systems.

- Core AWS Architectural Principles
- EC2
- DynamoDB
- Fault Tolerance
- Cost Efficiency
- Fault Solutions
- Virtual/Private Cloud
- Elastic Load Balancer.

Module 3: Implementation and Deployment

- Design Components
- Scalable Applications
- End Customer Applications
- Direct Connect
- Large-Scale AWS Designs

Module 4: Data Security

- AWS Compliance
- Secure AWS and Cloud Deployment
- AWS Security Models
- Shared Responsibility Model

Module 5: Exam Preparation

- Practice Assignments
- Live Lab Projects
- Practice Labs
- Familiarizing yourself with the exam format