

AWS Solutions Architect Associate Level Certification Course

The course objective is to make candidates thoroughly understand following topics:

- Design & implement highly available, cost efficient, fault tolerant, scalable applications.
- Design & implement secure networking infrastructure & secure application tiers.
- Design & implement data integrity and data security with AWS services
- What are recommended AWS architectural best practices?

To meet these objectives each session will not just cover theory but also hands-on labs with a focus on AWS Solutions Architect Associate level certification exam.

List of Topics:

Introduction to AWS

- AWS Cloud Platform, its features & its advantages.
- AWS global infrastructure

Identity & Access Management (IAM)

- Authentication & Authorization of users for secure transactions with AWS resources.
- IAM Roles

Amazon Elastic Compute Cloud (EC2)

- Provision Linux & Windows server
- Elastic Block Storage (EBS) types
- Elastic Load Balancer & Auto-Scaling
- AWS Command-Line Interface (CLI)

Amazon Simple Storage Service (S3)

- AWS S3 as object storage & its features
- AWS Glacier Storage

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Amazon Virtual Private Cloud (VPC)

- Learn to create your own VPC
- Hybrid Cloud options

AWS Databases

- Amazon Relational Database Service (RDS)
- Amazon DynamoDB
- Amazon ElastiCache
- Amazon Redshift

Amazon Route 53

- Learn various routing policies for your website or internet applications.

Amazon Simple Queue Service (SQS) and Amazon Simple Notification Service (SNS)

- Learn best practice for usage of SQS & SNS

AWS Lambda

- Learn to create a AWS Lambda function

Additional Key Services

- Additional service relevant for the associate level certification exam such as Key Management Service, CloudHSM, CloudFront, Kinesis, Cognito, Elastic Container Service, CloudTrail, CloudWatch, CloudFormation, Elastic Beanstalk, Trusted Advisor Athena, Macie, Step Function and API Gateway.

Security on AWS

- Understand AWS Security model
- Learn to secure your data at rest & in transit

Risk and Compliance

- Understand risk mitigation strategies for disaster recovery

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- Learn about various compliances of AWS platform & its relevance for customers from different domains

Architectural Best Practices

- Learn about AWS recommended best practices for architecting application on AWS cloud

AWS keeps innovating at a very fast pace & any new service that becomes relevant in the certification exam will also be covered so as to meet the objective of making candidates confident to take the certification exam.