



# AWS Solutions Architect Associate Training

by Daniel AG

## Course Description

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Our AWS Solutions Architect – Associate course is intended for every aspiring individual who want to learn and perform an AWS Solutions Architect role. This course will effectively teach you how to architect and deploy secure and robust applications on AWS technologies.

This AWS solutions architect certification course will help you identify the appropriate Amazon Web Services including databases, network, storage, cost optimization, compute, and security requirements.

### By the end of the course, you'll be able to:

- Design systems that are secure, reliable, high-performing, and cost-efficient
- Migration or designing new applications for the AWS Cloud.
- Architectural options applied in a variety of use cases.
- Design high availability, fault tolerance, and scalability.
- Leverage the capabilities of AWS to support automation.
- Create, manage, provision, and update related resources using AWS.
- Cloud Formation and much more.

This course prepares you for certification exam AWS Certified Solutions Architect Associate - SAA C03. Students will also get Hands-on Labs plus over 250+ Practice questions for the exam.

# Course Information

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## Course Modules

- Cloud & AWS Fundamentals
- IAM and Account Security in AWS
- Networking in AWS
- Compute & Related Features
- Storage Service
- Database Services
- Architecting on AWS using AWS Cloud
- Monitoring and Scaling
- Automation and Infrastructure as Code
- Container Service
- Serverless Services in AWS
- Edge Services in AWS
- Implementing Backup and Recovery in AWS

## With the Course Students Get:

- Comprehensive Course Materials
- Recorded Video of Each Class
- Reading Materials
- Lab Exercises
- Research Papers
- Interview Questions
- Resume Preparation
- Placement Assistance
- On the Job Support Assistance
- AWS Certification Materials

# Course Contents

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<https://empiredatasystems.com/aws-solutions-architect-associate-training.html>

## Module 1: Cloud & AWS Fundamentals

### Lessons

- Cloud Fundamentals
- Benefits of Cloud
- AWS services
- AWS infrastructure
- AWS Well-Architected Framework
- Hands-on lab: Explore and interact with the AWS Management Console and AWS Command Line Interface

## Module 2: IAM and Account Security in AWS

### Lessons

- IAM Fundamentals
- Security policies
- Managing multiple accounts
- Managing multiple accounts

## Module 3: Networking in AWS

### Lessons

- IP addressing
- Route 53, VPN, and AWS Direct Connect
- VPC fundamentals
- VPC traffic security
- VPC endpoints
- VPS peering
- Hybrid networking
- AWS Transit Gateway

## Module 4: Compute & Related Features

### Lessons

- Compute services
- Different Compute Options
- EC2 instances
- Storage for EC2 instances



# Program Curriculum

AWS Solutions Architect Associate

- Amazon EC2 pricing options
- High Availability, Auto Scaling and Load Balancing
- Hands-On Lab: Build your Amazon VPC infrastructure.

## Module 5: Storage Service

### Lessons

- Storage services
- Amazon S3, EBS, S3 Glacier, Snowball, EFS and Storage Gateway
- Shared file systems
- Data migration tools

## Module 6: Database Services

### Lessons

- Database services
- Amazon RDS
- Amazon DynamoDB & redshift
- Database migration tools
- Hands-on Lab: Create a database layer in your Amazon VPC infrastructure

## Module 7: Monitoring and Scaling

### Lessons

- Monitoring
- Alarms and events
- Load balancing
- Auto scaling
- Hands-on Lab: Configure high availability in Amazon VPC

## Module 8: Automation and Infrastructure as Code

### Lessons

- AWS CloudFormation
- Infrastructure management

## Module 9: Container Service

### Lessons

- Microservices
- Containers
- Container Services

## Module 10: Serverless Services in AWS

### Lessons

- What is serverless?
- Amazon API Gateway
- Amazon SQS
- Amazon SNS
- Amazon Kinesis
- AWS Step Functions
- Hands-on Lab: Build a serverless architecture.

## Module 11: Edge Services in AWS

### Lessons

- Edge fundamentals
- Amazon Route 53
- Amazon CloudFront
- DDoS protection
- AWS Outposts
- Hands-on Lab: Configure an Amazon CloudFront distribution with an Amazon S3 origin.

## Module 12: Implementing Backup and Recovery in AWS

### Lessons

- Disaster planning
- AWS Backup
- Recovery strategies
- Hands-on Lab: Capstone lab – Build an AWS Multi-Tier architecture. Participants review the concepts and services learned in class and build a solution based on a scenario. The lab environment provides partial solutions to promote analysis and reflection. Participants deploy a highly available architecture.

## Module 13: Architecting on AWS using AWS Cloud

### Lessons

- Best practices, AWS Knowledge Center and Whitepaper
- Billing, Cost Management & Pricing
- AWS Global Infrastructure
- AWS Shared responsibility model



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# Program Curriculum

AWS Solutions Architect Associate

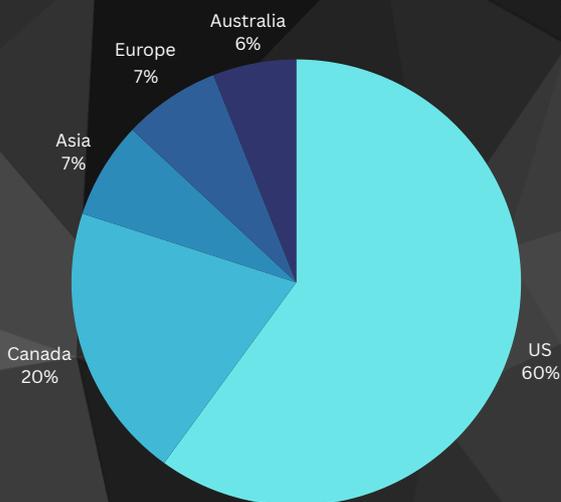
- AWS Security best practices
- DR
- Distributed design pattern
- Failover
- Immutable infrastructure
- Hybrid and Multi Cloud
- DevOps

## Module 14: Guidance towards AWS Certification

### Exam Lessons

- Q&A
- Tips for certification exam AWS Certified Solutions Architect Associate - SAA C03

## Our Student Demographic



## Other Courses We Offer

- ✓ SQL Server Database Administration
- ✓ SQL Server Performance Tuning
- ✓ SQL Server Business Intelligence
- ✓ SQL Programming
- ✓ Microsoft Azure Administration
- ✓ Microsoft Azure Data Engineering
- ✓ DevOps Engineering
- ✓ AWS Solutions Architect
- ✓ Microsoft Azure AI Engineer

## Our Students Feedback



Please check the below link to see our student's feedback. These feedbacks are an excellent motivator for our trainers to improve in course delivery and engage more in students' training needs and career goals.

[www.empiredatasystems.com/students-feedback.html](http://www.empiredatasystems.com/students-feedback.html)

## Our Training **Statistics**



16 Years of  
Experience



3671  
Gratified  
Students



112  
Training  
Batches



9634  
Training  
Hours

## Contact **Us**

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