



AWS Solutions Architect Certification Training

simplilearn

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Program Overview:

AWS Solutions Architect Certification training will enable you to design, plan, and scale AWS implementations utilizing more than 70 cloud computing services. This course is aligned with the latest AWS exam, featuring Amazon designated best practices. You will master AWS architectural principles and services such as IAM, VPC, EC2, and EBS, and elevate your career in the cloud computing domain.

Program Features:

- > 57 hours of blended learning
- > 21 hours of Online self-paced learning
- > 36 hours of instructor-led training
- > 16 live demos of AWS services
- > 10 industry-based case studies
- > Three simulation exams (60 questions each)
- > Three real-time industry projects with integrated labs
- > 100% money-back guarantee

Delivery Mode:

Blended - Online self-paced learning and live virtual classroom

Prerequisites:

There are no prerequisites for this AWS training course. However, prior experience in working with AWS or another cloud computing platform is recommended

Target Audience:

- > IS/IT auditors/consultants
- > IT compliance managers
- > Chief compliance officers
- > Chief risk and privacy officers
- > Security heads/directors
- > Security managers/architects

Key Learning Outcomes:

By the end of this AWS training you will be able to:

- > Formulate solution plans and provide guidance on AWS architecture best practice
- > Design and deploy scalable, highly available, and fault-tolerant systems on AWS
- > Identify the lift and shift of existing on-premises applications to AWS
- > Decipher the ingress and egress of data to and from AWS
- > Select the appropriate AWS service based on data, compute, database, or security requirements
- > Estimate AWS costs and identify cost control mechanisms

Certification Details and Criteria:

To become an AWS Solutions Architect Certificatied Professional, you must meet the following requirements:

- > The AWS Solutions Architect Associate exam is 80 minutes and features multiple-choice questions
- > AWS Certification exams are administered at Kryterion testing centers in more than 750 locations worldwide; register to secure your exam appointment
- > AWS Certification Cost: The registration fee for the AWS Solution Architect Associate Exam is \$150

Simplilearn Course **Completion Criteria-**

To unlock your AWS certificate from Simplilearn, you must

Online Classroom:

- > Attend one complete batch
- > Complete one simulation test with a minimum score of 60 percent

Online Self-Learning:

- > Complete 85 percent of the course
- > Complete one simulation test with a minimum score of 60 percent

Course Curriculum:

Lesson 00 - Course Introduction

- > Course Overview

Lesson 01 - AWS Overview

- > AWS Overview
- > History and Evolution of AWS
- > Knowledge Check
- > Overview of AWS Products and Services
- > Quiz
- > Key Takeaways

Lesson 02 - Designing Highly Available, Cost-efficient, Fault-tolerant, and Scalable Systems

- > Designing Highly Available, Cost-efficient, Fault-tolerant, and Scalable Systems
- > How to design Cloud Services
- > Knowledge Check
- > Planning and Designing
- > Knowledge Check
- > Monitoring and Logging
- > Knowledge Check
- > Hybrid IT architectures
- > Knowledge Check
- > Practice Assignment Designing Hybrid Storage
- > Quiz
- > Knowledge Check

Lesson 03 - Identity Access Management(IAM)

- > Identity and Access Management (IAM)
- > IAM Overview and Policies
- > Knowledge Check
- > IAM Users, Groups, and Roles
- > Knowledge Check
- > IAM Best Practices
- > IAM Users, Groups, and Roles
- > Knowledge Check
- > IAM Best Practices
- > Practice Assignment Configuring IAM Access
- > Quiz
- > Key Takeaways

Lesson 04 - Amazon Virtual Private Cloud(VPC)

- > Amazon Virtual Private Cloud (VPC)
- > Amazon VPC and Subnets
- > Knowledge Check
- > Networking
- > Knowledge Check
- > Using Security Groups and Network ACLs
- > Knowledge Check
- > Amazon VPC Best Practices and Costs
- > Practice Assignment Designing a Custom VPC
- > Quiz
- > Knowledge Check

Lesson 05 - Elastic Compute Cloud(EC2)

- > Cloud Compute with AWS
- > Amazon EC2 Overview
- > Amazon Machine Images (AMI)
- > Launch and connect to an EC2 Linux instance Demo 1
- > Launch and connect to an EC2 Windows instance Demo 2
- > Create an AMI Demo 3
- > Knowledge Check
- > Introduction to EC2 Instance Types
- > Knowledge Check
- > Overview of Amazon EBS
- > Knowledge Check
- > EC2 Pricing
- > Knowledge Check
- > Elastic Load Balancing (ELB)
- > Knowledge Check
- > Auto Scaling
- > Knowledge Check
- > AWS Services
- > AWS Lambda Demo
- > Amazon Elastic Container Service
- > Knowledge Check
- > EC2 Best Practices and Costs
- > Practice Assignment Configure ELB
- > Quiz
- > Key Takeaways

Lesson 06 - Amazon Simple Storage Service(S3)

- > Amazon Simple Storage Service (S3)
- > S3 Overview and Buckets
- > Knowledge Check
- > Version Control and Lifecycle Management
- > Knowledge Check
- > CloudFront and CDNs
- > Knowledge Check
- > Security and Encryption
- > Knowledge Check
- > Amazon Import - Export Snowball
- > Knowledge Check
- > S3 Best Practices and Costs
- > Practice Assignment Create an Amazon S3 bucket
- > Quiz
- > Knowledge Check

Lesson 07 - Amazon Route 53

- > Amazon Route 53
- > Amazon Route 53 Concepts
- > Knowledge Check
- > Amazon Route 53 Best Practices and Costs
- > Practice Assignment Amazon Route 53 Hosted Zone 0
- > Quiz
- > Key Takeaways

Lesson 08 - Databases

- > Databases
- > Databases Overview
- > Knowledge Check
- > Amazon Relational Database Service (RDS)
- > Knowledge Check
- > AMI Databases
- > Key Takeaways
- > Amazon DynamoDB
- > Knowledge Check
- > Amazon Redshift
- > Knowledge Check
- > Amazon ElastiCache
- > Knowledge Check
- > Amazon Aurora
- > Knowledge Check
- > AWS Database Migration Services (DMS)
- > Knowledge Check
- > Database Best Practices and Costs
- > Practice Assignment Amazon RDS
- > Quiz
- > Key Takeaways

Lesson 09 - Application Services

- > Application Services
- > AWS Application Services
- > Knowledge Check
- > Amazon Elastic Transcoder
- > Knowledge Check
- > Amazon Workspaces
- > Knowledge Check
- > Application Services Best Practices and Costs
- > Practice Assignment Amazon SNS
- > Quiz
- > Key Takeaways

Lesson 10 - Security Practices for optimum Cloud Deployment

- > Security Practices for Optimum Cloud Deployment
- > AWS Responsibilities and Security Attributes
- > Knowledge Check
- > AWS CloudFormation and Design patterns
- > Practice Assignment AWS CloudWatch
- > Quiz
- > Key Takeaways

Lesson 11 - Disaster Recovery

- > Disaster Recovery
- > Overview and Products for Disaster Recovery
- > Practice Assignment Disaster Recovery
- > Quiz
- > Key Takeaways

Lesson 12 - Troubleshooting

- > Troubleshooting
- > Troubleshooting and Support
- > Quiz
- > Key Takeaways

Lesson 13 - AWS Solutions Architect Exam

- > AWS Solutions Architect Exam
- > Exam Overview and Study Tips
- > Knowledge Check
- > Key Takeaways

Course End **Projects:**

Project 1: Custom VPC Creation

Create a custom VPC with public and private subnets on two availability zones, and launch instances into each subnet

Project 2: Load balancer Configuration

Launch two web servers, and configure a load balancer and auto-scaling

Project 3: RD Gateway Configuration

Configure an RD Gateway on a VPC with a public and private subnet

Tools Covered:



Amazon EC2



Amazon Elastic
Block Store



AWS Identity and Access
Management



AWS Snowball
Edge



Amazon
CloudFront



SWF



Amazon
Redshift



Elastic Load
Balancing



Amazon
DynamoDB



Lambda
function



Amazon Simple
Notification Service



Amazon Simple
Queue Service



Elastic Load
Balancing



Amazon
Redshift

Tools **Covered:**



Auto Scaling



Amazon Elastic
Transcoder



Amazon S3
Glacier



Amazon
Route 53



Amazon RDS



Amazon
Aurora instance



Amazon
ElastiCache



Amazon VPC



Amazon VPC



AWS Cloud
Formation



Amazon
CloudWatch



AWS CloudTrail



AWS Database
Migration Service



AWS Trusted
Advisor

Customer **Reviews:**



B M Abhishek

Technical Support Engineer

My trainer was very patient and made sure to address all our doubts. The journey with Simplilearn has indeed been a great experience because of the way the trainers explained the topics.



Ranjith Jayakar

ACS India Pvt Ltd

The sessions taken by our instructor Sonal were great. I was really impressed with the training. I was able to learn a lot of new things. Thanks a lot, Simplilearn!



Niranjana Damaraju

Delivery Director at Cognizant

I recently took the AWS Solution Architect Associate course from Simplilearn. I am very impressed with the quality of the course content and its structure. I am very keen to recommend Simplilearn for developing my IT skills. This course is great for both teams and managers.



Vinayak Kumashi

BizTalk Lead at eTeam

I have attended AWS Solution Architect program from Simplilearn. The concepts were well explained and the lab sessions were useful. All questions were answered satisfactorily. I would strongly recommend this program to anyone who wishes to get to the depths of AWS. Thanks.

About Us:

Simplilearn is a leader in digital skills training, focused on the emerging technologies that are transforming our world. Our blended learning approach drives learner engagement and is backed by the industry's highest completion rates. Partnering with professionals and companies, we identify their unique needs and provide outcome-centric solutions to help them achieve their professional goals.

For more information, please visit our website:

<https://www.simplilearn.com/cloud-computing/aws-solution-architect-associate-training>



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Founded in 2009, Simplilearn is one of the world's leading providers of online training for Digital Marketing, Cloud Computing, Project Management, Data Science, IT Service Management, Software Development and many other emerging technologies. Based in Bangalore, India, San Francisco, California, and Raleigh, North Carolina, Simplilearn partners with companies and individuals to address their unique needs, providing training and coaching to help working professionals meet their career goals. Simplilearn has enabled over 1 million professionals and companies across 150+ countries train, certify and upskill their employees.

Simplilearn's 400+ training courses are designed and updated by world-class industry experts. Their blended learning approach combines e-learning classes, instructor-led live virtual classrooms, applied learning projects, and 24/7 teaching assistance. More than 40 global training organizations have recognized Simplilearn as an official provider of certification training. The company has been named the 8th most influential education brand in the world by LinkedIn.

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