

# AWS Certified Solutions Architect Professional 2026



## course Introduction

- Course Introduction
- Course Expectations

## Identity & Federation

- IAM
- IAM Access Analyzer
- STS
- Identity Federation & Cognito

- AWS Directory Services
- AWS Organizations
- AWS Organizations Policies
- AWS IAM Identity Center
- AWS Control Tower
- AWS Resource Access Manager - RAM
- Summary of Identity & Federation

## **Security**

- CloudTrail
- CloudTrail - EventBridge Integration
- CloudTrail - SA Pro
- KMS
- Parameter Store
- Secrets Manager
- RDS Security
- SSL Encryption, SNI & MITM
- AWS Certificate Manager - ACM
- CloudHSM
- Solution Architecture - SSL on ELB
- S3 Security
- S3 Access Points
- S3 Multi-Region Access Points
- S3 Multi-Region Access Points - Hands On
- S3 Object Lambda
- DDoS and AWS Shield
- AWS WAF - Web Application Firewall
- AWS Firewall Manager
- Blocking an IP Address
- Amazon Inspector
- AWS Config
- AWS Managed Logs
- Amazon GuardDuty
- IAM Advanced Policies
- EC2 Instance Connect
- AWS Security Hub
- Amazon Detective

## **Compute & Load Balancing**

- Solution Architecture on AWS
- EC2
- High Performance Computing (HPC)
- Auto Scaling

- Auto Scaling Update Strategies
- Spot Instances & Spot Fleet
- Amazon ECS - Elastic Container Service
- Amazon ECR - Elastic Container Registry
- Amazon EKS - Elastic Kubernetes Service
- AWS App Runner
- ECS Anywhere & EKS Anywhere
- AWS Lambda
- Elastic Load Balancers
- API Gateway
- AWS AppSync
- Route 53
- Route 53 - Resolvers & Hybrid DNS
- AWS Global Accelerator
- Comparison of Solutions Architecture
- AWS Outposts
- AWS WaveLength
- AWS Local Zones

## **Storage**

- EBS & Local Instance Store
- Amazon EFS
- Amazon S3
- Amazon S3 - Storage Class Analysis
- Amazon S3 - Storage Lens
- S3 Solution Architecture
- Amazon FSx
- Amazon FSx - Solution Architectures
- AWS DataSync
- AWS DataSync - Solution Architecture
- AWS Data Exchange
- AWS Transfer Family
- AWS Storage Services Price Comparison

## **Caching**

- CloudFront
- Lambda@Edge and CloudFront Functions
- Lambda@Edge Reduce Latency
- Amazon ElastiCache
- Handling Extreme Rate

## **Databases**

- DynamoDB
- Amazon OpenSearch
- RDS
- Aurora

## **Server Communication**

- Step Functions
- SQS
- Amazon MQ
- Amazon SNS
- Amazon SNS - SQS Fan Out Pattern
- Amazon SNS - Message Delivery Retries

## **Data Engineering**

- Amazon Kinesis Data Streams
- Amazon Data Firehose
- Amazon Managed Service for Apache Flink
- Streaming Architectures
- Amazon MSK
- AWS Batch
- Amazon EMR
- Running Jobs on AWS
- AWS Glue
- Redshift
- Amazon DocumentDB
- Amazon Timestream
- Amazon Athena
- Amazon QuickSight
- Big Data Architecture

## **Monitoring**

- CloudWatch
- CloudWatch Logs
- Amazon EventBridge
- X-Ray
- AWS Personal Health Dashboard
- Monitoring Quiz

## **Deployment & Instance Management**

- Elastic Beanstalk
- CodeDeploy

- CloudFormation
- Service Catalog
- SAM - Serverless Application Model
- AWS CDK - Cloud Development Kit
- AWS Systems Manager - SSM
- AWS Cloud Map

## **Cost Control**

- Cost Allocation Tags
- AWS Tag Editor
- Trusted Advisor
- AWS Service Quotas
- EC2 Launch Types & Savings Plan
- S3 Cost Savings
- S3 Storage Classes - Reminder
- AWS Budgets & Cost Explorer
- AWS Compute Optimizer
- EC2 Reserved Instance

## **Migration**

- Cloud Migration Strategies
- Storage Gateway
- Storage Gateway - Advanced Concepts
- Snow Family
- Snow Family - Improving Performance
- AWS DMS - Database Migration Services
- AWS CART - Cloud Adoption Readiness Tool
- Disaster Recovery
- AWS FIS - Fault Injection Simulator
- VM Migrations Services
- AWS Migration Evaluator
- AWS Backup

## **VPC**

- VPC - Basics
- VPC Peering
- Transit Gateway
- VPC Endpoints
- VPC Endpoint Policies
- PrivateLink
- AWS S2S VPN
- AWS Client VPN
- Direct Connect

- On-Premise Redundant Connections
- VPC Flow Logs
- AWS Network Firewall

## **Machine Learning**

- Rekognition Overview
- Transcribe Overview
- Polly Overview
- Translate Overview
- Lex + Connect Overview
- Comprehend Overview
- Comprehend Medical Overview
- SageMaker AI Overview
- Kendra Overview
- Personalize Overview
- Textract Overview
- Machine Learning Summary

## **Other Services**

- CI/CD
- Amazon CodeGuru
- Alexa for Business, Lex & Connect
- Kinesis Video Streams
- AWS WorkSpaces
- Amazon AppStream 2.0
- AWS Device Farm
- Amazon Macie
- Amazon SES
- Amazon Pinpoint
- EC2 Image Builder
- AWS IoT Core
- Other Services Summary

**Thank You**