



AWS CERTIFIED SOLUTIONS ARCHITECT Course – Associate (SAA–C03)

The AWS Certified Solutions Architect – Associate (SAA–C03) exam is intended for individuals who perform a solutions architect role. The exam validates a candidate's ability to design solutions based on the AWS Well–Architected Framework.

مروری بر دوره

The AWS Certified Solutions Architect – Associate (SAA–C03) exam is intended for individuals who perform a solutions architect role. The exam validates a candidate's ability to design solutions based on the AWS Well–Architected Framework.

The exam also validates a candidate's ability to complete the following tasks:

- Design solutions that incorporate AWS services to meet current business requirements and future projected needs
- Design architectures that are secure, resilient, high–performing, and cost optimized
- Review existing solutions and determine improvements

آنچه خواهید آموخت

Preparing for and attaining this certification will showcase:

- Knowledge and skills in compute, networking, storage, and database AWS services as well as AWS deployment and management services
- Knowledge and skills in deploying, managing, and operating workloads on AWS as well as implementing security controls and compliance requirements
- Knowledge and skills in using the AWS Management Console and the AWS Command Line Interface (CLI) Understanding of the AWS Well–Architected Framework, AWS networking, security services, and the AWS global infrastructure
- Ability to identify which AWS services meet a given technical requirement and to define technical requirements for an AWS–based application

سرفصل ها

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- Domain 1: Design High-Performing Architectures (24% of scored content)
- Domain 2: Design Resilient Architectures (26% of scored content)
- Domain 3: Design Secure Architectures (30% of scored content)

Domain 1: Design High-Performing Architectures

Design high-performing and elastic compute solutions.

Compute as a Service on AWS

Introduction to Amazon Elastic Compute Cloud

Amazon EC2 Instance Lifecycle

Launch and Corporate Directory Application on Amazon EC2

Container Services on AWS

Introduction to Serverless

Serverless with AWS Fargate

Introduction to AWS Lambda

Choose the Right Compute Service

Serverless and AWS Lambda

Determine high-performing and/or scalable network

Introduction to Amazon VPC

Amazon VPC Routing

Secure Your Network with Amazon VPC Security

Hybrid Connectivity with AWS

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Amazon VPC Routing and Security

Creating a VPC and relaunching the Corporate Directory Application on Amazon EC2

Determine high-performing and/or scalable storage solutions.

Storage Types on AWS

Amazon EC2 Instance Storage and Amazon Elastic Block Store

Object Storage with Amazon S3

Choose the Right Storage Service

Create an Amazon S3 Bucket

Determine high-performing database solutions.

Explore Databases on AWS

Amazon Relational Database Service

Purpose Built Databases on AWS

Introduction to Amazon DynamoDB

Choose the Right AWS Database Service

Monitoring & Optimization

Introduction to Amazon CloudWatch

Optimizing Solutions on AWS

Route Traffic with Amazon Elastic Load Balancing

Amazon EC2 Auto Scaling

Domain 2: Design Resilient Architectures

Designing a serverless web backend on AWS

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Selecting a Serverless Compute Service

Compute on AWS

AWS Lambda Exploration

Choosing an AWS Database Service

DynamoDB Exploration

Building Event-Driven Architectures

Decoupling AWS Solutions

SNS Exploration

SQS Exploration

Designing a serverless data analytics solution on AWS

Data Analytics on AWS

AWS Data Services

Exploring Amazon S3

Amazon S3 Cross-Region Replication and Object Lifecycle

Choosing a Service for Data Ingestion

Exploring Amazon Kinesis

Differences Between Amazon Kinesis Services

Accessing the Ingested Data

Exploring Amazon Athena

Visualizing the Data

Amazon QuickSight Features

Designing a hybrid solution for container based workloads on AWS

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Hybrid Networking and Connectivity Services

Running Containers on AWS and NAT Gateways

Amazon Relational Database Service

Amazon RDS Exploration

Storage Gateway Exploration

AWS Storage Services

Hybrid Solutions on AWS

AWS Systems Manager Exploration

AWS Services for Hybrid Deployments

Domain 3: Design Secure Architectures

Why Multi-Account Strategies?

IAM Roles – The AWS Authentication Core Mechanism

IAM Roles, Trust Relationships, and Permissions

Organizing Your Accounts Together Using OUs (Organizational Units)

Moving from One Account to Another

AWS IAM Identity Center

Reflecting on AWS Best Practices

Choosing Services for Logging

Automating Account Provisioning and Maintenance

Multi-Account Best Practices

مخاطبان دوره

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The target candidate should have at least 1 year of hands-on experience designing cloud solutions that use AWS services.

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