

AWS Certified Solutions Architect Professional (SAP-C01)

Introduction

The AWS Certified Solutions Architect - Professional (SAP-C01) examination is intended for individuals who perform a solutions architect professional role. This exam validates advanced technical skills and experience in designing distributed applications and systems on the AWS platform.

It validates an examinee's ability to:

- Design and deploy dynamically scalable, highly available, fault-tolerant, and reliable applications on AWS.
- Select appropriate AWS services to design and deploy an application based on given requirements.
- Migrate complex, multi-tier applications on AWS.
- Design and deploy enterprise-wide scalable operations on AWS.
- Implement cost-control strategies.

Course Objective

This course teaches you about core aspects such as:

- Designing and deploying exponentially scalable, hassle-free, and reliable applications on AWS
- Selection of appropriate AWS services in order to develop and deploy an application based on given requirements
- Migrating complex and multilevel applications on AWS
- Designing enterprise-wide scalable operations on AWS
- Implementing cost-effective strategies

Course Outline

Domain 1: Design for Organizational Complexity

- 1.1 Determine cross-account authentication and access strategy for complex organizations
- 1.2 Determine how to design networks for complex organizations
- 1.3 Determine how to design a multi-account AWS environment for complex organizations

Domain 2: Design for New Solutions

- 2.1 Determine security requirements and controls when designing and implementing a solution
- 2.2 Determine a solution design and implementation strategy to meet reliability requirements
- 2.3 Determine a solution design to ensure business continuity
- 2.4 Determine a solution design to meet performance objectives
- 2.5 Determine a deployment strategy to meet business requirements when designing and implementing a solution

Domain 3: Migration Planning

- 3.1 Select existing workloads and processes for a potential migration to the cloud
- 3.2 Select migration tools and/or services for new and migrated solutions based on detailed AWS knowledge
- 3.3 Determine a new cloud architecture for an existing solution
- 3.4 Determine a strategy for migrating existing on-premises workloads to the cloud

Domain 4: Cost Control

- 4.1 Select a cost-effective pricing model for a solution
- 4.2 Determine which controls to design and implement that will ensure cost optimization
- 4.3 Identify opportunities to reduce cost in an existing solution

Domain 5: Continuous Improvement for Existing Solutions

- 5.1 Troubleshoot solution architectures
- 5.2 Determine a strategy to improve an existing solution for operational excellence
- 5.3 Determine a strategy to improve the reliability of an existing solution
- 5.4 Determine a strategy to improve the performance of an existing solution
- 5.5 Determine a strategy to improve the security of an existing solution
- 5.6 Determine how to improve the deployment of an existing solution

Prerequisites

Participants who wish to take up AWS Certified Solutions Architect Professional training should have the below-mentioned prerequisites:

- Participants should have cleared their AWS Certified Solutions Architect Associate exam
- Participants should have a minimum of two years of experience in deploying and designing cloud architecture on the AWS platforms.

Target Audience

Job roles that can take up AWS Certified Solutions Architect Professional training include, but are not limited to:

- Cloud Computing Professionals
- IT Managers
- Solution Architects
- System Administrators
- Testing Professionals
- Solution Design Engineers
- Aspiring AWS Certified Solutions Architects
- Anybody who wants to gain an in-depth understanding of deploying and managing AWS solutions
- Professionals who are looking to clear their AWS Certified Solution Architect Professional Certification Exam (SAP-C01)

Duration

- 24 Hours Training Course