

# **AWS Certified Solution Architect Professional**

**[www.devopsschool.com](http://www.devopsschool.com)**

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## **Duration: 60 Hours**

### **Description:**

Amazon Web Services (AWS) is the most popular and most widely used Infrastructure as a Service (IaaS) cloud in the world. If you're an administrator, engineer, architect or consultant looking to familiarize yourself with AWS, this is the course for you. In AWS Certified Solutions Architect - Associate, you will learn advanced design principles, such as strategies for consolidated billing. You'll also learn about AWS cross-account access and various connectivity methods to AWS. Finally, you'll also cover Directory services, data management, analytics, and much more. When you're finished with this course, you'll have the skills and knowledge needed to securely design advanced implementations using various AWS services, and you'll also be highly prepared for the AWS Certified Solutions Architect associate certification exam

### **Pre-requisites:**

Two years of hands-on experience designing and deploying cloud architecture on AWS and best practice knowledge of multi-application architectural design is recommended.

### **Agenda**

#### **Design for Organizational Complexity:**

- Determine cross-account authentication and access strategy for complex organizations (for example, an organization with varying compliance requirements, multiple business units, and varying scalability requirements)
- Determine how to design networks for complex organizations (for example, an organization with varying compliance requirements, multiple business units, and varying scalability requirements)
- Determine how to design a multi-account AWS environment for complex organizations (for example, an organization with varying compliance requirements, multiple business units, and varying scalability requirements)

### **Design for New Solutions:**

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

### **Migration Planning:**

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

### **Cost Control:**

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

### **Continuous Improvement for Existing Solutions:**

- Troubleshoot solution architectures
- Determine a strategy to improve an existing solution for operational excellence
- Determine a strategy to improve the reliability of an existing solution
- Determine a strategy to improve the performance of an existing solution
- Determine a strategy to improve the security of an existing solution
- Determine how to improve the deployment of an existing solution