



# Amazon Web Services (AWS) Certified Developer

CC102

24  
Academic Hours

# Amazon Web Services (AWS) Certified Developer

## Outline

In this course we will Understand the core of AWS services, uses, and basic architecture best practices, Identify and recognize cloud architecture considerations, such as fundamental components and effective designs.

The AWS Certified Developer – Associate exam validates technical expertise in developing and maintaining applications on the AWS platform.



### Target Audience

Anyone looking to gain knowledge to the Amazon Web Services Platform.



### Prerequisites

You'll need a basic understanding of cloud technologies.



### Objectives

On completing this learning path you will be able to:

- Understand the core AWS services, uses, and basic architecture best practices.
- Design, develop, and deploy cloud based solutions using AWS.
- Identify and recognize cloud architecture considerations, such as fundamental components and effective designs.
- Identify the appropriate techniques required to code a proper cloud solution.
- Recognize & implement secure procedures for optimal cloud deployment & maintenance.
- Demonstrate ability to implement the right architecture for development, testing, and staging environments.
- Develop and maintain applications written for Amazon Simple Storage Services (S3), Amazon DynamoDB, Amazon Simple Queue Service (SQS), Amazon Simple Notification Service (SNS), Amazon Simple Workflow Service (SWS), AWS Elastic Beanstalk, and AWS Cloud Formation.
- Identify and implement best practices for debugging in AWS.



## Content

### Module 01

## Cloud Architecture Considerations

- | What is cloud computing?
- | Cloud Computing models: SaaS, PaaS, IaaS
- | Cloud implementation models: Public, Private, Hybrid
- | What's AWS?
- | Main services overview (Compute, Storage, DB, Network)
- | How to design cloud services?
- | Planning and design
- | Amazon S3, Amazon Simple Workflow Service (SWF), and Messaging
- | Configure an Amazon Machine Image (AMI)
- | DynamoDB, AWS Elastic Beanstalk, AWS CloudFormation
- | Elasticity and scalability
- | Database concepts
- | Familiarity with architectural trade-off decisions (Amazon Relational Database Service (RDS) vs. Amazon Elastic Compute Cloud (EC2))

### Module 02

## Optimum Cloud Deployment and Maintenance

- | Cloud Security Best Practices
- | Shared Security Responsibility Model
- | AWS Platform Compliance
- | AWS security attributes (customer workloads down to physical layer)
- | Security Services
- | AWS Identity & Access Management (IAM)
- | Amazon Virtual Private Cloud (VPC)
- | CIA and AAA models, ingress vs. egress filtering, and which AWS services and features fit



### Module 03

## Cloud Solution

- Programming with AWS APIs
- General troubleshooting information and questions
- Best Practices in debugging

### Module 04

## AWS Exam Concepts

- Picking the right AWS services for the application
- Leveraging AWS SDKs to interact with AWS services from your application
- Writing code that optimizes performance of AWS services used by your application
- Code-level application security (IAM roles, credentials, encryption, etc.)



**Understand the core AWS services, uses, and basic architecture best practices"**



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