

## Description

This course is designed to introduce you to developing on the AWS cloud computing platform while simultaneously preparing you for the AWS Certified Developer - Associate (DVA-C01) certification exam. From AWS beginners to AWS Developers looking to prepare for the exam, and IT professionals looking to migrate to the cloud, this course is for you.

This course covers official DVA-C01 exam objectives, with a review of the AWS Cloud essentials on Day 1. Further topics include Serverless Application design, In-Memory Caching, AWS SDKs, Continuous Integration / Continuous Deployment (CI/CD), and all other topics that you can expect to see on the exam. The content is spread out over five 4-hour days.

The course also includes live demonstrations. Before attending the course, if you don't already have one, please make sure you sign up for a free Amazon Web Services account at <https://aws.amazon.com/>

### Day 1

- Introduction to Developing on AWS
  - Course Introduction
  - AWS Certified Developer Associate Exam overview
  - Cloud Economics and Total Cost of Ownership (TCO)
- AWS Cloud Essentials
  - AWS Identity and Access Management
  - AWS Storage, Compute, and Networking
    - *Demonstration*
  - AWS Database Options
    - *Demonstration*
  - AWS Elasticity and Management Tools
    - *Demonstration*

### Day 2

- Interacting with the AWS Cloud
  - AWS CLI
    - *Demonstration*
  - AWS SDKs
  - AWS APIs
- AWS Storage Services
  - EC2 Instance Stores
  - Amazon CloudFront
    - *Demonstration*
  - EBS Volumes
  - Amazon S3

## Day 2

- AWS Database Services
  - Relational Databases
  - Nonrelational Databases
  - In-Memory Caching
    - *Demonstration*
- Infrastructure as Code
  - YAML and JSON templates
  - CloudFormation Stacks
    - *Demonstration*
  - Advanced CloudFormation concepts

## Day 3

- AWS ElasticBeanstalk
  - Installing the ELB CLI
  - Deploy an ElasticBeanstalk environment and application
    - *Demonstration*
  - ElasticBeanstalk Deployment concepts
- Continuous Integration / Continuous Deployment (CI/CD)
  - CodeCommit
    - *Demonstration*
  - CodePipeline
  - CodeBuild

## Day 4

- Containerized Applications
  - OpsWorks
  - AWS Elastic Container Service (ECS)
    - *Demonstration*
  - AWS Elastic Container Repository (ECR)
    - *Demonstration*
- Application Integration and Microservices
  - SQS
  - SNS
  - Kinesis

## Day 5

- Serverless Applications on AWS
  - Serverless Application Model (SAM)
  - Lambda and DynamoDB
    - *Demonstration*
  - API Gateway
    - *Demonstration*
- Application Monitoring and Management
  - AWS CloudWatch, AWS X-Ray, AWS CloudTrail
    - *Demonstration*
  - Encryption

## Instructor Bio

Share some background information about yourself. Include anything that will affirm your position as an authority on the subject.