

AWS Cloud Engineer

Level 1 course

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AWS Certified - Trainer

Introduction

This training program is in collaboration with AWS and developed to help software engineers to architect their solutions on Amazon Web Services - AWS. During this program, they will learn to build secure, high-performing, resilient, and efficient infrastructure for their application's backend. The architecture is based on five pillars — operational excellence, security, reliability, performance efficiency, and cost optimization.

The course is designed with interactive sessions, demonstrations, assignments, and hands-on labs.

What is AWS - Amazon Web Services

Amazon Web Services (AWS) is a subsidiary of Amazon that provides on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis. In aggregate, these cloud computing web services provide a set of primitive abstract technical infrastructure and distributed computing building blocks and tools. One of these services is Amazon Elastic Compute Cloud, which allows users to have at their disposal a virtual cluster of computers, available all the time, through the Internet.

Training Progression / Objectives

During this training program, we will do the following modules

- AWS Technical Professional - Accreditation
- AWS Cloud Practitioner Essentials
- AWS Well-Architecture Best Practices
- AWS Serverless APIs & Apps
- AWS Certified Solution Architect (Optional)



Schedule

Course Duration	1 month
Days	3 days a week
Time Duration	3 hours per session

Course Outline

- Introduction to AWS Services
- A Simple Architectures
 - Server Based
 - Serverless
- Manage permissions and access policies
 - IAM (Identity and Access Management)
 - Policies
- Databases
 - SQL and NoSQL
 - Servers-Based and Serverless
- Compute
 - Servers - EC2
 - Serverless - Lambda, Fargate, Batch and more
- Elasticity, High Availability, and Monitoring
- Infrastructure as Code
 - Cloud Formation
- AWS Well-Architected
 - Serverless Architectures
 - Microservices
 - High-Performance Computing (HPC)
- Building Decoupled Architectures
- VPC on AWS - Networking
- AWS S3 (Simple Storage Service)
 - Storage and Archiving
 - Versioning and Triggering
 - Static Web Hosting
- Serverless API Gateways
- Notification and Queuing services
- Add user authentication to serverless applications
 - User Credentials
 - Federated Logins
 - AWS Cognito
- EMR - Cluster
- Introduction to Data Lake
 - Ingestion
 - Transformation
 - Curation
 - Consumption
- Introduction to Big Data
 - Variety, Velocity, Volume
 - Intro to AWS EMR
 - Intro to AWS Red Shift
 - Intro to Apache Hadoop
 - Intro to Apache Spark