# Developing on AWS Training

BILGINC IT Academy
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Duration: **3 Day**

The **{*training}** course provides software developers with the knowledge and hands-on experience required to build secure, scalable, and high-performance cloud applications on AWS. Participants will learn how to interact with AWS services programmatically, develop modern cloud-native applications, and leverage AWS development tools effectively.

The course covers application development using core AWS services such as**AWS SDK**, **AWS Lambda**, **Amazon API Gateway**, **Amazon DynamoDB**, **Amazon S3**, **Amazon SQS**, and **Amazon SNS**. It also explores key topics including authentication and authorisation, application integration, container technologies, **serverless architectures**, and **CI/CD practices** for modern software development.

Through hands-on labs and real-world scenarios, learners will gain practical experience developing, deploying, and managing production-ready applications while applying AWS best practices for cloud-native development.

## Prerequisites

Participants should have:

- Completed **AWS Technical Essentials** or possess equivalent experience
- Working knowledge of AWS core services
- Programming experience in one of the following languages:
  - **Python**
  - **Java**
  - **C# / .NET**
  - **JavaScript**

## Who Should Attend

This course is intended for:

- **Software Developers**
- **Cloud Developers**
- **Backend Developers**
- **Full Stack Developers**
- **DevOps Engineers**
- Technical teams building applications on AWS
- Developers transitioning to cloud-native application development

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## What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Configure and use the **AWS SDK**.
- Develop applications that interact with AWS services programmatically.
- Implement secure authentication using **AWS IAM**.
- Store and manage data using **Amazon S3** and **Amazon DynamoDB**.
- Build serverless applications using **AWS Lambda**.
- Develop and manage APIs using **Amazon API Gateway**.
- Integrate applications using **Amazon SQS**, **Amazon SNS**, and **AWS Step Functions**.
- Implement user authentication with **Amazon Cognito**.
- Improve application performance using **Amazon ElastiCache**.
- Incorporate container technologies into development workflows.
- Automate application deployment using **CI/CD pipelines**.

## Training Outline

### Introduction to AWS Development

- AWS Developer Tools
- AWS SDK Fundamentals
- Accessing AWS Services
- Secure Development Practices

### AWS SDK and Authentication

- **AWS SDK**
- Developer Credentials
- **AWS Identity and Access Management (IAM)**
- Service Authentication Methods

### Data Management

- **Amazon Simple Storage Service (Amazon S3)**
- **Amazon DynamoDB**
- Data Storage Strategies
- Performance Optimisation

### Serverless Application Development

- **AWS Lambda**
- Event-Driven Architectures
- Serverless Design Patterns

### API Development and Integration

- **Amazon API Gateway**
- REST API Development
- Service Integration Techniques

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## Messaging and Workflow Services

- **Amazon Simple Queue Service (SQS)**
- **Amazon Simple Notification Service (SNS)**
- **AWS Step Functions**
- Distributed Application Patterns

## Identity and User Authentication

- **Amazon Cognito**
- Web Identity Framework
- User Access Management

## Scalability and Performance

- **Amazon ElastiCache**
- Caching Strategies
- Performance Optimisation Techniques

## Containers and Modern Applications

- Container Technologies
- AWS Container Services
- Cloud-Native Development Practices

## DevOps and CI/CD

- Continuous Integration
- Continuous Delivery
- Deployment Automation
- AWS CI/CD Pipelines