# DevOps Engineering on AWS Training

Duration: **3 Day**

BILGINÇ IT Academy
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## Overview

The training teaches participants how to apply the most common **DevOps principles, tools, and patterns** to design, deploy, and maintain applications on **Amazon Web Services (AWS)**.

Over **three days**, participants gain hands-on experience with **infrastructure automation, continuous integration/delivery (CI/CD), containerization, and monitoring** using AWS-native tools.

### Optional Add-On

> Enhance your learning with **AWS Jam** – a hands-on, team-based event that challenges you to solve real AWS operational scenarios.
> Enroll in **DevOps Engineering on AWS with AWS Jam** for the full experience.

**Bilginç IT Academy** is an officially **Accredited Training Organisation (ATO)** by **PeopleCert**, the global leader in professional certification and exam delivery.
As an authorized PeopleCert partner, we deliver accredited training and official certification exams for **ITIL®, PRINCE2®, DevOps, and other PeopleCert-certified programs**, ensuring our learners receive globally recognized credentials with the most up-to-date curriculum.

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**Important Information:**
This course is an official program accredited by PeopleCert and is offered **only together with the corresponding certification exam**. The course fee **includes the exam fee**.
Participants can take the certification exam online through PeopleCert's examination system and earn an internationally recognized certificate.
This practice is mandatory to ensure compliance with PeopleCert's quality standards and accreditation guidelines.

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## Prerequisites

Participants should have:

- Completed **System Operations on AWS** and **Developing on AWS** courses
- Proficiency in at least one high-level programming language

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- Experience managing Linux or Windows systems via command-line
- Familiarity with AWS Console and AWS CLI

## Who Should Attend

- System Administrators
- Software Developers
- DevOps Engineers
- Cloud Architects
- Release and Operations Managers

## What You Will Learn

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

- Understand DevOps methodology and its best practices.
- Design and implement DevOps infrastructure on AWS.
- Use **AWS CloudFormation** and **OpsWorks** for Infrastructure as Code.
- Implement **CI/CD pipelines** with CodeCommit, CodeBuild, CodePipeline, and CodeDeploy.
- Manage full development lifecycle with **AWS CodeStar**.
- Apply **Blue/Green Deployments** and **A/B testing** strategies.
- Automate patching using **Amazon EC2 Systems Manager**.
- Integrate automated testing into the CI/CD workflow.
- Monitor applications using **AWS CloudWatch** and **AWS X-Ray**.

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## Outline

- **Introduction to DevOps**
- **Infrastructure Automation (CloudFormation, OpsWorks)**
- **AWS DevOps Toolsets**
- **CI/CD Pipelines and Development Tools**
- **Microservices on AWS**
- **DevOps with Containers (ECS, ECR)**
- **Serverless DevOps (AWS Lambda)**
- **Deployment Strategies (Blue/Green, A/B, Canary)**
- **Automated Testing**
- **Security Automation (IAM, CloudTrail, Config)**
- **Configuration Management (Chef, Puppet)**
- **Observability (CloudWatch, X-Ray)**
- **Reference Architecture and Best Practices**