APPLIED TECHNOLOGY ACADEMY

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DevOps Engineering on AWS Training

Award Winning Training · Applied Technology Academy

DevOps Engineering on AWS teaches learners how to use the combination of tools, practices, and cultural philosophy of DevOps to improve an organization's ability to develop, deliver, and maintain applications and services at high velocity on AWS. This course update increases the focus on Continuous Integration (CI), Continuous Delivery (CD), microservices, infrastructure as code, monitoring, and logging, and additional core principles of DevOps.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**3 Days**	**3 years: IT & Programming**	**$125,908**	**Yes**

Course Overview

In this course, you will learn how to:

- Use the principal concepts and practices behind the DevOps methodology
- Design and implement an infrastructure on AWS that supports one or more DevOps development projects

Use AWS CloudFormation and AWS OpsWorks to deploy the infrastructure necessary to create development, test, and production environments for a software development project

Use AWS CodeCommit and AWS CodeBuild to understand the array of options for enabling a continuous integration (CI) environment on AWS

- Use AWS CodePipeline to design and implement a continuous integration and continuous delivery (CI/CD) pipeline on AWS
- Use AWS CodeStar to manage all software development activities in one place

Implement several common continuous deployment (CD) use cases using AWS technologies, including blue/green deployment and A/B testing

Distinguish between the array of application deployment technologies available on AWS, including AWS CodeDeploy, AWS OpsWorks, AWS Elastic Beanstalk, Amazon Elastic Container Service (Amazon ECS), and Amazon Elastic Container Registry (Amazon ECR), and decide which technology best fits a given scenario

- Use Amazon EC2 Systems Manager for patch management
- Leverage automated testing in different stages of a CI/CD pipeline

Fine-tune the applications you deliver on AWS for high performance, and use AWS tools and technologies to monitor your application and environment for potential issues

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Course Outline

- **Module 1 : Introduction to DevOps**
- **Module 2: Infrastructure Automation**
- **Module 3: AWS Toolsets**
- **Module 4: CI/CD with Development Tools**
- **Module 5: Introduction to Microservices**
- **Module 6: DevOps and Containers**
- **Module 7: DevOps and Serverless Computing**
- **Module 8: Deployment Strategies**
- **Module 9: Automated Testing**
- **Module 10: Security Automation**
- **Module 11: Configuration Management**
- **Module 12: Observability**
- **Module 13: Reference Architectures (Optional)**

Intended Audience

This course is intended for:

- Developers
- DevOps Engineers
- SysOps Engineers
- DevOps Architects
- System administrators

Prerequisites

We recommend that attendees of this course have the following prerequisites:

- Systems Operations on AWS or Developing on AWS
- Working knowledge of one or more high-level programming languages, such as C#, Java, PHP, Ruby, or Python
- Intermediate knowledge of administering Linux or Windows systems at the command-line level
- Working experience with AWS using both the AWS Management Console and the AWS Command Line Interface (AWS CLI)

Follow-On Courses

- DevOps Leader (DOL)
- DevOps Foundation
- Cloud Operations on AWS

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.