
DevOps Engineering with Azure



Introduction

Many companies are looking for talented DevOps engineers to remain agile in the industry. If you are looking to advance your career in this field join our DevOps Engineering course and learn to design and deploy infrastructure as code, build and monitor CI/CD pipelines for different deployment strategies, versatile Cloud Technologies, and scalable microservices using Kubernetes and other in-demand tools in the market.

Why Learn DevOps?

01 High Demand for Skilled Professionals:

As organizations increasingly adopt DevOps practices to enhance efficiency and agility, there is a growing demand for skilled DevOps engineers.

02 Improved Collaboration and Efficiency:

Learning DevOps enables you to implement practices that streamline workflows, reduce silos, and enhance overall productivity.

03 Continuous Learning and Innovation:

The DevOps landscape is constantly evolving with new tools and methodologies.

04 Better Software Quality and Faster Delivery:

DevOps practices, such as Continuous Integration and Continuous Deployment (CI/CD), enable teams to deliver high-quality software more rapidly.

Who is this course for?

This course is ideal for individuals who have a background in software development, IT, and deployment and want to advance their careers in DevOps roles.

What are the requirements to join?

Must have fundamental knowledge of core software development principles.

1

Have a laptop with the following specs - 8GB RAM, 500GB and above, Core i5 or i7.

2

Must have a basic understanding or proficiency with command-line tools and Linux operating system environments

3

Be proficient in English and available to attend all classes.

4

Access to a stable internet.

5

Course Overview

Part-Time Online Classes

Duration: 11 weeks

Mode: 100% live & online classes | Mon to Fri from 6 pm - 9 pm E.A.T

Tuition Fees: Ksh 55,000

Fee Payment Options Available



Upfront Full Fee Payment

Course Outline

Orientation & Onboarding

- Course Overview
- System configurations and installations
- Onboarding

Introduction to DevOps & Azure Cloud

Learn core Azure concepts, cloud resource management, and deployment of web applications. Gain hands-on experience with the Azure CLI and Portal, configuring, scaling, and monitoring applications in the cloud.

Containers & Serverless Applications

Learn to create and manage Docker images and containers. Develop, test, and deploy Azure Functions, and explore Azure services for integration and process automation.

Integrating Services with Azure Service Bus

Learn to build event-driven, compute-on-demand systems with Azure Functions. Implement publish-subscribe patterns using Azure Queue Storage, Service Bus topics, and queues, and connect applications with Event Hubs to handle high loads reliably.

Course Outline

Data Persistence in Azure

Learn storage management and data modeling in Azure, including storage accounts, Blob resources, and containers. Gain hands-on experience with Azure NoSQL and Cosmos DB using the Azure CLI.

Containerization in Azure

Learn to manage container images with Azure Container Registry and Docker CLI. Create and manage Azure Container Instances (ACI) and Azure Container Apps (ACA), including configuring health probes and application secrets.

Virtualization

Learn to create, configure, and manage Linux and Windows virtual machines in Azure. Build and run web applications with the MEAN stack, and gain hands-on experience managing both Linux and Windows VMs.

Authentication & Authorization

Learn to manage access and secure resources in Azure using RBAC, access keys, and conditional access policies. Protect cloud-based data and secure web applications with tools like MS Graph and Shared Access Signatures (SAS).

API Management & Event-Based Solutions

Learn to provision and configure Web APIs, handle errors with advanced policies, and debug APIs using request tracing in Azure API Management.

Developing Message-Based Solutions & Monitoring

Learn to implement messaging solutions with Azure Service Bus, Queue Storage, and Azure Relay. Integrate caching and content delivery, manipulate cached data, and monitor applications using Azure Monitor and Application Insights to analyze performance and optimize solutions.

Contact Details



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