



MICROSOFT TRAINING

# Azure Devops Infrastructure As Code

*Learn to automate Azure cloud infrastructure using Devops and Infrastructure as Code for robust, repeatable deployments.*

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DURATION

**2 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

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- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

This intermediate-level 'Azure DevOps Infrastructure As Code' course is meticulously designed to empower IT professionals with the essential skills for automating infrastructure provisioning and management within the Microsoft Azure ecosystem. Over two focused hours, participants will delve into the powerful paradigm of Infrastructure as Code (IaC), learning how to define, deploy, and manage Azure resources using declarative templates and Azure DevOps pipelines. The course primarily focuses on leveraging Azure Resource Manager (ARM) templates and Bicep, Microsoft's domain-specific language for deploying Azure resources, to achieve consistent, repeatable, and scalable infrastructure deployments.

By completing this concise yet comprehensive training, you will gain the ability to drastically reduce manual errors, accelerate deployment cycles, and ensure environmental consistency across development, testing, and production. This practical knowledge translates directly into enhanced productivity and operational efficiency within any organization utilizing Azure. Whether you're looking to streamline your cloud operations, implement robust CI/CD practices for infrastructure, or simply elevate your Azure DevOps proficiency, this course provides a strong foundation for building and managing modern cloud infrastructure programmatically.

|          |              |
|----------|--------------|
| Duration | 2 hours      |
| Level    | Intermediate |
| Vendor   | Microsoft    |

## COURSE CURRICULUM

- 01 Module 1: Introduction to Infrastructure as Code (IaC) and Azure DevOps**
  - Understanding IaC principles and benefits
  - Overview of Azure DevOps services (Pipelines, Repos)
  - Comparing imperative vs. declarative approaches
  - Introduction to Azure Resource Manager (ARM) and Bicep
- 02 Module 2: Crafting Infrastructure with ARM Templates and Bicep**
  - ARM template structure: Resources, parameters, variables, outputs
  - Deploying basic Azure resources using ARM templates (e.g., Resource Groups, Storage Accounts)
  - Introduction to Bicep: Syntax, modules, and advantages over ARM JSON
  - Authoring and deploying Bicep files for common Azure services
- 03 Module 3: Automating IaC Deployments with Azure DevOps Pipelines**
  - Setting up Azure Repos for IaC code management
  - Creating Azure Pipelines for CI/CD of infrastructure
  - Configuring Service Connections to Azure subscriptions
  - Implementing deployment stages and approval gates for IaC
- 04 Module 4: Advanced IaC Concepts and Best Practices**
  - Parameterizing templates for environment-specific deployments
  - Implementing security best practices for IaC pipelines
  - Managing infrastructure state and drift detection strategies
  - Version control and collaborative IaC development

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure DevOps Engineer**
- > **Cloud Infrastructure Automation Specialist**
- > **Senior Cloud Engineer (with IaC specialization)**

## FREQUENTLY ASKED QUESTIONS

### **Q: What specific infrastructure provisioning tools will I master using Azure DevOps pipelines in this course?**

This course focuses primarily on Microsoft's native Infrastructure as Code tools: Azure Resource Manager (ARM) templates and Bicep. You will gain hands-on experience in authoring, deploying, and managing Azure resources using both these declarative languages, integrated seamlessly within Azure DevOps Pipelines for automated, repeatable infrastructure provisioning.

### **Q: Is prior experience with Azure or DevOps required to benefit from this 2-hour 'Azure DevOps Infrastructure As Code' course?**

While this is an intermediate-level course, a basic understanding of cloud concepts and familiarity with the Azure portal is recommended. Prior exposure to source control (like Git) and the general principles of CI/CD will also be beneficial. However, the course is structured to guide participants through the specifics of IaC within Azure DevOps, making it accessible for those looking to specialize.

### **Q: How does learning Infrastructure as Code with Azure DevOps enhance my career prospects as a Cloud Engineer or DevOps Specialist?**

Mastering IaC with Azure DevOps is a critical skill for modern cloud and DevOps roles. It directly translates to the ability to build robust, scalable, and secure cloud environments efficiently. This expertise makes you highly valuable in roles requiring automated infrastructure deployments, consistent environment provisioning, and the implementation of advanced CI/CD strategies, significantly boosting your employability and impact within an organization.

## ABOUT COMPUTER PRIDE



***East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

### Location

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