



MICROSOFT TRAINING

Github Actions Azure Course Guide

Automate your CI/CD with GitHub Actions on Azure. Learn to build, test, and deploy applications efficiently to the Microsoft cloud.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Embark on a focused journey into modern DevOps practices with the 'Github Actions Azure Course Guide'. This intermediate-level course, crafted by Microsoft experts and condensed into a powerful two-hour session, is designed to equip IT professionals with the essential skills to automate their software delivery pipelines using Github Actions and Azure services. You'll delve into the seamless integration of these powerful tools, learning how to define, manage, and execute robust CI/CD workflows directly from your Github repositories to various Azure environments.

Throughout this course, you will gain practical experience in setting up secure connections, configuring workflow files with YAML, and deploying applications to key Azure services such as Azure App Service and potentially Azure Kubernetes Service. The core technologies covered include Github Actions' workflow syntax, secrets management, and leveraging Azure service principles for secure deployments. By the end of this guide, you will understand how to build efficient, repeatable, and scalable deployment strategies that significantly reduce manual errors and accelerate your time-to-market.

Mastering Github Actions for Azure not only streamlines your development process but also positions you as a highly valuable asset in any organization embracing cloud-native and DevOps methodologies. This certification course guide provides the blueprint for transforming your deployment pipeline, enhancing your professional toolkit with in-demand automation capabilities, and directly contributing to faster, more reliable software releases.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Github Actions and Azure Integration

- Understanding Continuous Integration and Continuous Delivery (CI/CD)
- Fundamentals of Github Actions: Workflows, Jobs, Steps, and Actions
- Introduction to YAML for Github Actions workflow definition
- Overview of Azure services for application hosting and deployment

02 Module 2: Establishing Secure Connections to Azure

- Creating Azure Service Principals for Github Actions authentication
- Configuring Github repository secrets for secure Azure credentials
- Granting necessary permissions to Azure resources for deployment
- Best practices for secure CI/CD pipeline access

03 Module 3: Building and Deploying Applications to Azure

- Writing Github Actions workflows for building applications
- Deploying web applications to Azure App Service
- Automating container image pushes to Azure Container Registry (ACR)
- Introduction to deploying to Azure Kubernetes Service (AKS) using Github Actions

04 Module 4: Advanced Workflows and Troubleshooting

- Implementing conditional deployments and environment-specific workflows
- Leveraging matrix strategies for parallel job execution
- Monitoring Github Actions workflow runs and logs

- Common troubleshooting techniques for Azure deployment failures via GitHub Actions

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure DevOps Engineer**
- > **Cloud Automation Specialist**
- > **CI/CD Pipeline Architect**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure services will I learn to automate deployments for using GitHub Actions in this course guide?

This course guide provides instruction on automating deployments to key Azure services, primarily focusing on Azure App Service for web applications and offering an introduction to deploying containerized applications to Azure Kubernetes Service (AKS) via Azure Container Registry (ACR). You will gain foundational knowledge applicable to other Azure services as well.

Q: What are the recommended prerequisites for effectively taking this GitHub Actions Azure Course Guide?

To get the most out of this course, a basic understanding of Git and GitHub repository operations is highly recommended. Familiarity with Azure portal navigation and core Azure concepts, along with a foundational understanding of CI/CD principles, will also be beneficial. No prior in-depth experience with GitHub Actions or Azure DevOps is strictly required, as the course covers essential integrations.

Q: How will mastering GitHub Actions for Azure deployments enhance my marketability as a cloud professional?

By mastering GitHub Actions for Azure deployments, you demonstrate expertise in critical modern DevOps practices, a highly sought-after skill. This capability proves your ability to implement efficient, automated, and secure software delivery pipelines, making you a stronger candidate for roles requiring cloud automation, CI/CD pipeline management, and a deep understanding of Microsoft's cloud ecosystem.

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.

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