



GTech Learn

"Our focus is your Success"



Course Contents

GH-200: Automate your workflow with GitHub Actions

Duration: 1 day	Level: Intermediate	Role: Administrator
Certification: Available	Public Schedules: View Dates	Private Delivery: Reach Us

What's included?

- ✓ Learn from Microsoft Certified Trainer (MCT's)
- ✓ 24x7 Lab Access
- ✓ Official Courseware
- ✓ Exam Preps / Practice Tests
- ✓ Badges & Completion Certificate
- ✓ Discounted Exam Vouchers



Digital & App Innovation
Azure

Training Services

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Overview

Learn how GitHub Actions enables you to automate your software development cycle. You'll learn how to plan automation of your software development life cycle with GitHub Actions workflows, use GitHub Actions to automatically build an application, and use GitHub Script to interact with the GitHub API.

Audience Profile

This course is intended for students who want to use GitHub to help developers and DevOps engineers build and deploy applications quickly. Additionally, students will discover which GitHub Actions features are available for their enterprise instance and learn how to use them.

Contents

Learning Path 1: Automate development tasks by using GitHub Actions

- Identify GitHub Action types and where to find them
- Break down the components of a workflow YAML file
- Design CI/CD and IaC automation strategies
- Build and trigger a custom container action on push

Learning Path 2: Build continuous integration (CI) workflows by using GitHub Actions

- Build and test a Node.js project by using GitHub Actions and a templated workflow.
- Debug a failed test using the GitHub Actions Log.
- Customize your workflow with GitHub Actions.

Learning Path 3: Build and deploy applications to Azure by using GitHub Actions

- Configure CD workflow triggers, manage artifacts, and enforce environment protections.
- Use job conditionals and GitHub Secrets to control execution and secure credentials.
- Deploy containers to Azure Web Apps and automate the creation and deletion of Azure resources.

Learning Path 4: Automate GitHub by using GitHub Script

- Embed and execute GitHub Script in a workflow to call the GitHub API.
- Automate issue triage: post comments and add issues to project boards via Octokit.
- Control workflow execution using expression syntax to run jobs only when needed.

Learning Path 5: Leverage GitHub Actions to publish to GitHub Packages

- Understand what a Package Repository is and when to use it
- Set up a Continuous Integration (CI) workflow with GitHub Actions to publish to GitHub Packages
- Validate your knowledge with an exercise that checks your ability to publish to a GitHub

Packages registry

- Identify how to authenticate, install, and manage GitHub Packages

Learning Path 6: Create and publish custom GitHub actions

- Define and implement the metadata and syntax required for custom GitHub Actions, including JavaScript-based formats.
- Integrate and test custom Actions within workflow files, ensuring correct inputs, outputs, and environment handling.
- Publish Actions to the GitHub Marketplace (publicly or privately) following best practices for versioning, documentation, and security.

Learning Path 7: Manage GitHub Actions in the enterprise

- Identify the different tools you can use at enterprise and organization levels to manage your actions and workflows.
- Evaluate what the appropriate runners are for your enterprise instance.
- Discover the different configurations available for self-hosted runners, and customize them according to your enterprise use case.
- Understand what encrypted secrets are and how to use them in your actions and workflows.

About GTech Learn

Established in 2011 in the USA, GTech Learn is one of the leading IT training organizations in North America & South East Asia. Driven by its unique USPs, GTech Learn is spurring competition, meeting the unmet needs of customers, assisting in skills upgrade, and supplementing talent pools with its presence in the USA, Canada, Singapore and India. This is consistent with our vision to help our Learners with skills upgrade for enhanced career opportunities.

As a Microsoft Learning Partner, we offer a broad range of learning solutions across the full Microsoft technology stack that can be customized.

Since 2011, GTech Learn has been developing custom-fit learning solutions that involve creating and delivering maximum results.

We have successfully helped all types of businesses, government entities, and individuals. For this reason, GTech has chosen by Microsoft to deliver comprehensive learning programs around the globe.

With flexible learning options, state-of-the-art delivery methods, numerous language preferences, experienced instructors, and complete dedication to our students, GTech Learn has the capabilities to help students develop their Microsoft skill sets and achieve increasingly high standards of productivity while organizations of all sizes realize the full potential of their technology investments.

Our Accreditations with Microsoft



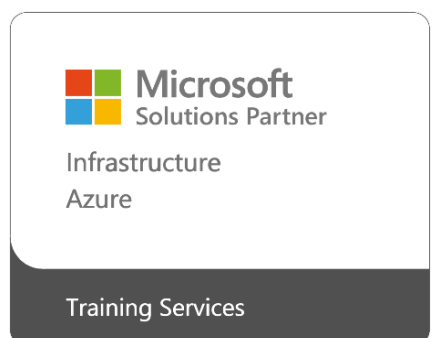
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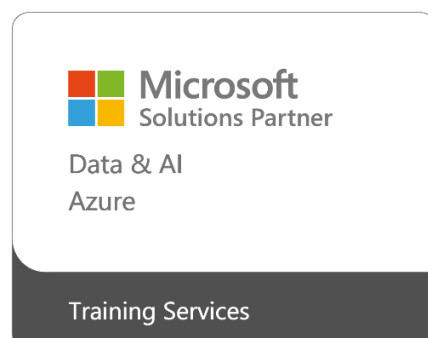
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