



GTech Learn

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Course Contents

GH-100: GitHub fundamentals - Administration basics and product features

Duration: 1 day	Level: Beginner	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

In this course, you'll learn the basics of GitHub and gain a better understanding of its fundamental features with a hands-on exercise all within a GitHub repository. You'll learn best practices for building, hosting, and maintaining a secure repository on GitHub.

Audience Profile

This course is intended for students who want to understand and GitHub best practices. You will understand the fundamental features of GitHub, learn about repository management, gain an understanding of the GitHub flow, including branches, commits, and pull requests. Additionally, you will explore the collaborative features of GitHub by reviewing issues and discussions and be able to manage your GitHub notifications and subscriptions.

Contents

Learning Path 1: Introduction to GitHub

- Identify the fundamental features of GitHub.
- Learn about repository management.
- Gain an understanding of the GitHub flow, including branches, commits, and pull requests.
- Explore the collaborative features of GitHub by reviewing issues and discussions.
- Recognize how to manage your GitHub notifications and subscriptions.

Learning Path 2: Introduction to GitHub Administration

- GitHub administrative tasks and their purpose at each hierarchical level.
- The various ways that administrators can configure authentication so that users can access GitHub via the web browser and the git client.
- Hierarchical permission levels and what these permissions allow you to do in GitHub.

Learning Path 3: Introduction to GitHub's products

- Define the difference between the different types of GitHub accounts: Personal, Organization, and Enterprise.
- Explain each GitHub plan: GitHub Free for personal accounts and organizations, GitHub Pro for personal accounts, GitHub Team, and GitHub Enterprise.
- Distinguish the features associated with accessing GitHub on GitHub Mobile and GitHub Desktop.
- Describe a brief overview of GitHub billing and payments.

Learning Path 4: Maintain a secure repository by using GitHub best practices

- Recognize the importance of securing your repository and shifting left in the development lifecycle.
- Identify the tools, GitHub features, and best practices to establish a secure development strategy.

- Keep sensitive files out of your repository by applying the use of a .gitignore file.
- Identify how to detect and fix outdated dependencies with security vulnerabilities.
- Recognize advanced security features such as code scanning and secret scanning.

Learning Path 5: Manage sensitive data and security policies within GitHub

- Create documentation that details security guidelines and useful information for collaborators.
- Set permissions and other rules & Manage repository rulesets.
- Automate processes that prevent security risks & Respond to sensitive data exposure.
- Export audit log records and git events.

Learning Path 6: Authenticate and authorize user identities on GitHub

- Describe GitHub's authentication and authorization framework—including available methods (personal tokens, SSH, SAML SSO, Enterprise Managed Users) and the administrator's role in enforcing secure access.
- Manage user and team access to your organization and private repositories using identity providers (e.g., SAML SSO), Team Synchronization, and built-in auth tools.
- Explain how users access private organization resources and apply best practices to protect sensitive data.

Learning Path 7: GitHub administration for enterprise support and adoption

- Configure enterprise-grade access by setting up SAML SSO and linking your Server and Cloud environments with GitHub Connect.
- Automate security, dependency updates, and key administrative workflows at scale.
- Centralize member lifecycle management with Enterprise Managed Users and partner with GitHub Enterprise Support for account, security, and abuse issues.

Learning Path 8: 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.

Learning Path 9: 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.

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

 Security Training Services	 Modern Work Training Services	 Business Applications Training Services
 Infrastructure Azure Training Services	 Digital & App Innovation Azure Training Services	 Data & AI Azure Training Services