

GitHub Fundamentals - Administration Basics and Product Features (GH-100T00)

COURSE 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.

WHO WILL BENEFIT FROM THIS COURSE?

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.

PREREQUISITES

- GitHub Account
- A GitHub Account with an active subscription for GitHub Copilot is required for either your personal GitHub account or a GitHub account managed by an organization or enterprise. For learning purposes, the Copilot Free option with usage limits should be sufficient.
- Basic understanding of GitHub fundamentals

COURSE OBJECTIVES

- Introduction to GitHub
- Introduction to GitHub administration
- Introduction to GitHub's products
- Maintain a secure repository by using GitHub best practices
- Manage sensitive data and security policies within GitHub
- Authenticate and authorize user identities on GitHub
- GitHub administration for enterprise support and adoption
- Manage GitHub Actions in the enterprise
- Leverage GitHub Actions to publish to GitHub Packages

COURSE OUTLINE

GitHub fundamentals - Administration basics and product features Part 1 of 2

Introduction to GitHub

- What is GitHub?
- Components of the GitHub flow
- GitHub is a collaborative platform
- GitHub platform management
- Exercise - A guided tour of GitHub

Introduction to GitHub administration

- What is GitHub administration?
- How does GitHub authentication work?
- How does GitHub organization and permissions work?
- Managing enterprise access, permissions, and governance

Introduction to GitHub's products

- GitHub accounts and plans
- GitHub Mobile and GitHub Desktop
- GitHub billing
- License Usage Stats
- License Usage Stats in Machine and Peripheral Devices
- Metered Usage Reports

Maintain a secure repository by using GitHub best practices

- How to maintain a secure GitHub repository
- Automated security
- Exercise - Secure your repository's supply chain

GitHub fundamentals - Administration basics and product features Part 2 of 2

Manage sensitive data and security policies within GitHub

- Setting security policies
- Create and manage repository rulesets
- Reporting and logging
- Exercise

Authenticate and authorize user identities on GitHub

- User identity and access management
- User authentication
- User authorization
- Team synchronization

GitHub administration for enterprise support and adoption

- GitHub Enterprise features
- Support for GitHub Enterprise
- Scale your enterprise deployment
- GitHub Enterprise Managed Users

Manage GitHub Actions in the enterprise

- Understanding GitHub enterprise models
- Manage actions and workflows
- Control access and usage of actions in your enterprise
- Managing and leveraging reusable components in GitHub Actions
- Manage runners
- Configure self-hosted runners for enterprise use
- Manage encrypted secrets
- Exercise - Use a repository secret in a GitHub Actions workflow

Leverage GitHub Actions to publish to GitHub Packages

- What are GitHub Packages?
- Publish to GitHub Packages and GitHub Container Registry
- Knowledge check
- Exercise - Publish to a GitHub Packages registry
- GitHub Packages for code packages

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