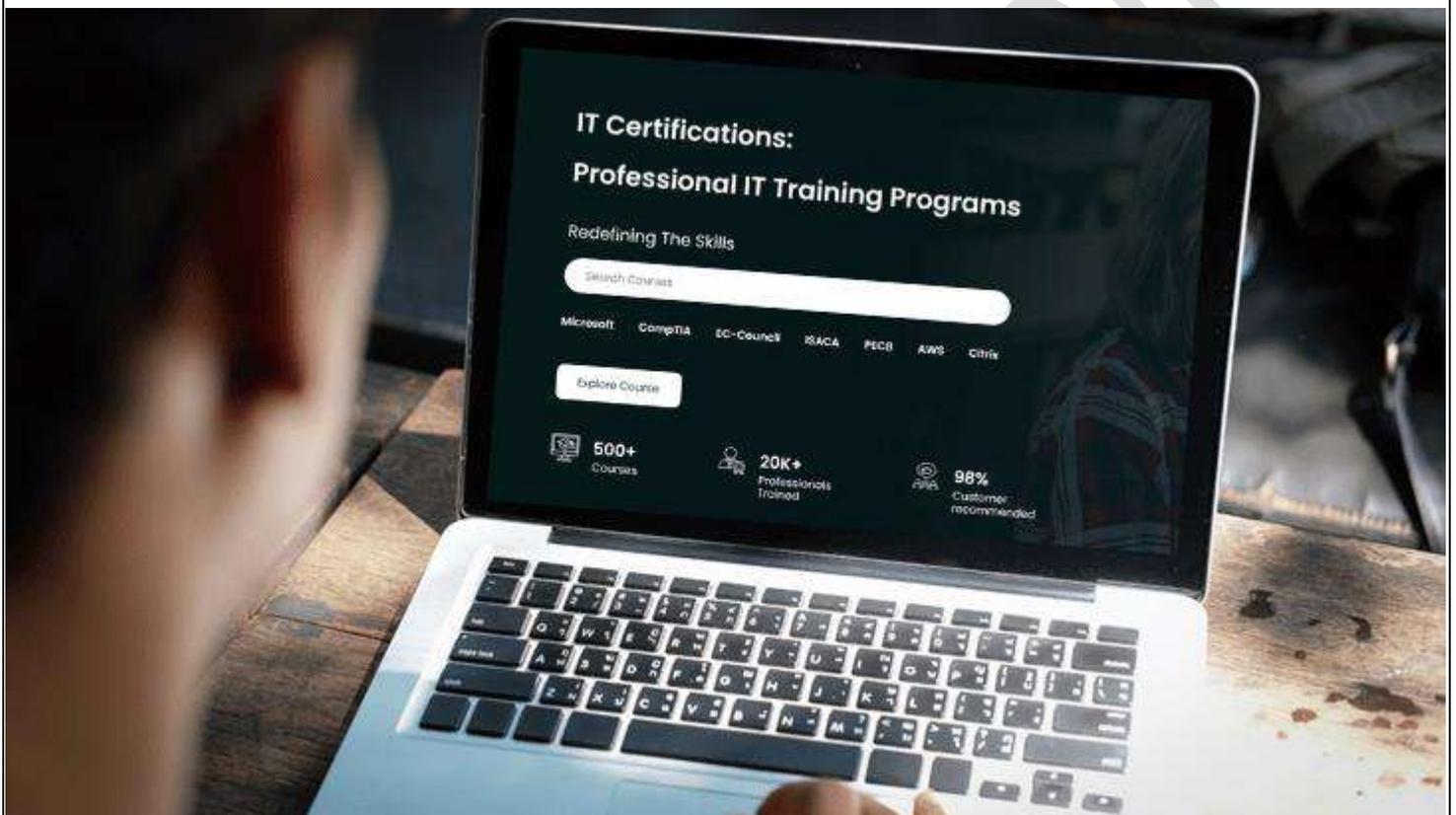




Redefining The Skills



GH-100T00: GitHub fundamentals - Administration basics and product features Training

DURATION: 1 DAY

Course Description

GH-100T00: GitHub Fundamentals and Administration introduces the core principles of effectively using and administering GitHub. The course covers repository management, collaboration tools, and GitHub Flow processes, while explaining organizational structures, permission management, authentication methods, and GitHub product offerings. Participants will explore security best practices, automate dependency management, and securely handle sensitive data. The curriculum also emphasizes GitHub Enterprise administration, user management, and workflow automation. Hands-on labs provide practical experience with GitHub Actions, GitHub Packages, and repository security.

Note: Students have to bring their own Github license.

Who should attend this course?

- DevOps Engineer

What you will learn

- Identify core features of GitHub and manage repositories efficiently.
- Summarize organizational structures and permission management in GitHub.
- Implement secure authentication and authorization strategies.
- Maintain repository security with GitHub best practices and tools.
- Manage GitHub Actions and publish to GitHub Packages.
- Administer GitHub Enterprise support, user management, and automation.

Curriculum

Module 1: 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

Module 2: 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 is GitHub Packages?
- Publish to GitHub Packages and GitHub Container Registry
- Exercise - Publish to a GitHub Packages registry
- GitHub Packages for code packages

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