kod szkolenia: GH-100 / ENG DL 1d

GitHub fundamentals - Administration basics and product features

The training covers essential tools, workflows, and support strategies for efficient collaboration, automation, and governance within GitHub Enterprise environments. Through a practical approach, participants will gain comprehensive knowledge of running GitHub Enterprise at scale - from initial setup to advanced workflow automation and security hardening. The training is authorized by Microsoft.

Training recipients

- DevOps Engineers looking to streamline support escalation, automate administrative tasks with GitHub APIs, and optimize CI/CD pipelines across enterprise environments
- Developers seeking to build secure, consistent workflows, extend GitHub’s capabilities with Marketplace integrations, and enhance team productivity
- Solution Architects interested in scaling collaboration through Enterprise Teams and Apps, improving governance, and designing resilient, automated development infrastructures

Benefits

- Enterprise-level GitHub management – You’ll learn to effectively manage GitHub Enterprise environments at scale
- Security and compliance mastery – You’ll gain skills in implementing secure workflows, managing permissions, and ensuring compliance across the enterprise
- Automation expertise – You’ll master CI/CD pipeline creation and workflow automation using GitHub Actions
- Support readiness – You’ll learn to build support bundles, triage incidents, and make informed

escalation decisions
- Integration capabilities – You'll understand how to extend GitHub functionality through APIs, Marketplace Apps, and custom Actions

Training program

1. Introduction to GitHub
   - Introduction
   - What is GitHub?
   - Components of the GitHub flow
   - GitHub is a collaborative platform
   - GitHub platform management
   - Exercise – A guided tour of GitHub
2. Introduction to GitHub administration
   - Introduction
   - What is GitHub administration?
   - How does GitHub authentication work?
   - How does GitHub organization and permissions work?
   - Managing enterprise access, permissions, and governance
3. Introduction to GitHub's products
   - Introduction
   - GitHub accounts and plans
   - GitHub Mobile and GitHub Desktop
   - GitHub billing
   - License Usage Stats
   - Metered Usage Reports
4. Maintain a secure repository by using GitHub best practices
   - Introduction
   - How to maintain a secure GitHub repository
   - Automated security
   - Exercise – Add a .gitignore file
5. Manage sensitive data and security policies within GitHub
   - Introduction
   - Setting security policies
   - Create and manage repository rulesets
   - Reporting and logging
   - Exercise – Remove commit history
6. Authenticate and authorize user identities on GitHub
   - Introduction

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

7. GitHub administration for enterprise support and adoption
   - Introduction
   - GitHub Enterprise features
   - Support for GitHub Enterprise
   - Scale your enterprise deployment
   - GitHub Enterprise Managed Users
8. Manage GitHub Actions in the enterprise
   - Introduction
   - Understanding GitHub Enterprise models
   - Manage actions and workflows
   - Control access and usage of actions
   - Managing reusable components
   - Manage runners
   - Configure self-hosted runners
   - Manage encrypted secrets
   - Exercise – Use repository secrets in workflows
9. Leverage GitHub Actions to publish to GitHub Packages
   - Introduction
   - What is GitHub Packages?
   - Publish to GitHub Packages and Container Registry
   - Exercise – Publish to GitHub Packages registry
   - GitHub Packages for code packages

Expected preparation of the participant

- The participant must have a GitHub account.
- Basic understanding of software development concepts and experience with at least one programming/scripting language
- Familiarity with GitHub, including version control workflows (branching, pull requests)
- General knowledge of enterprise environments and development at scale
- Experience with IDEs and collaborative development tools
- Working knowledge of CI/CD practices

  To increase the comfort of work and training’s effectiveness we suggest using an additional monitor. The lack of additional monitor does not exclude participation in the training, however, it significantly influences the comfort of work during classes.

You can find information and requirements of participation in Distance Learning trainings at: https://www.altkomakademia.pl/en/how-it-works/about-courses/

Training Includes

- manual in electronic form available on the platform: https://learn.microsoft.com/pl-pl/training/
- access to Altkom Akademia's student portal

Training method:

- Lecture (90%)
- Interactive Knowledge Checks (10%)

Language

- Training: English
- Materials: English

Examination method

On-line exam. Record at https://home.pearsonvue.com/Clients/Microsoft.aspx

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Examination description

GitHub Administration

Exam URL:https://learn.microsoft.com/en-us/credentials/certifications/github-administration/?practice-assessment-type=certification