

Integrating Azure DevOps and GitHub

IADG | 1 Day



In today's rapidly evolving software development landscape, seamless integration between tools is crucial for maintaining efficiency and collaboration across teams. This one-day class on integrating Azure DevOps and GitHub is designed to provide participants with an understanding of how these two platforms can work together to streamline development. Whether managing source code, automating deployments, or tracking work items, the integration between Azure DevOps and GitHub enables a unified approach that enhances productivity, ensures code quality, and fosters collaboration. Throughout this class, you will learn practical strategies and hands-on techniques to effectively connect these platforms, enabling your team to leverage the best of both worlds for continuous integration and continuous delivery.

Who should take this class?

This class is ideal for software developers, DevOps engineers, project managers, and IT professionals who are responsible for managing code repositories, automating deployment pipelines, and coordinating project tasks. It's also beneficial for teams already using either Azure DevOps or GitHub who want to maximize their productivity by integrating the two platforms. Whether you're new to these tools or looking to enhance your existing workflows, this class will provide the knowledge necessary to streamline your development process.

Course content

This hands-on class allows participants to apply what they are learning by integrating and using Azure DevOps with GitHub in various ways.

1. INTEGRATING AZURE DEVOPS AND GITHUB

- Overview of Azure DevOps and GitHub
- Why integrate Azure DevOps and GitHub?
- Common integration scenarios
- Pre-requisites for integration
- Configuring the integration
- Authentication and access control
- Exploring integration features
- Troubleshooting

2. INTEGRATING WORK

- Overview of Azure Boards and GitHub
- Connecting Azure Boards to GitHub
- Managing work items with GitHub
- Automatic work item linking
- Using GitHub issues with Azure Boards
- Notifications and alerts
- Tracking progress

3. INTEGRATING CODE

- Overview of Azure Repos and GitHub
- Choosing between Azure Repos and GitHub
- Linking Azure Repos and GitHub
- Migrating repositories
- Code reviews across platforms
- Syncing code changes
- Monitoring and analytics

4. INTEGRATING BUILDS AND RELEASES

- Overview of Azure Pipelines and GitHub
- Connecting GitHub repositories to Azure Pipelines
- Creating CI/CD pipelines for GitHub projects
- Pipeline triggers and branch policies
- Using YAML pipelines
- Integrating GitHub Actions with Azure Pipelines
- Managing secrets and secure files
- Multi-Stage pipelines and environments

Course Designer

This course was designed by Richard Hundhausen, Microsoft's first Visual Studio ALM/DevOps MVP, Professional Scrum Trainer, co-creator of the Nexus Scaled Professional Scrum framework, and an experienced software developer. To see other Azure DevOps courses, visit www.accentient.com.