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IT & Software › Microsoft Azure › Azure DevOps

Introduction to Azure DevOps

Unlock seamless collaboration with Azure DevOps tools.

DEFINITION

> Azure DevOps is a set of development tools that help teams plan, develop, test, and deliver software efficiently. It integrates various services to support the entire software development lifecycle.

KEY CONCEPTS

Boards

Azure Boards helps teams manage their work with Kanban boards, backlogs, and dashboards.

Repos

Azure Repos provides version control for code, allowing teams to collaborate on projects effectively.

Pipelines

Azure Pipelines automates the build and deployment process, enabling continuous integration and delivery.

Test Plans

Azure Test Plans offers tools for manual and exploratory testing to ensure software quality.

Artifacts

Azure Artifacts allows teams to share and manage packages, enhancing dependency management.

EXAMPLES

→ Using Azure Boards to track user stories and tasks in a project.

→ Implementing CI/CD with Azure Pipelines for a web application.

→ Collaborating on code using Azure Repos with pull requests.

MEMORY TIPS

★ Remember 'B.R.A.T.' for Boards, Repos, Artifacts, and Test Plans.

★ Visualize Azure DevOps as a toolbox with each tool serving a specific purpose.

★ Associate Pipelines with water flow, representing continuous delivery.

COMMON MISTAKES

✗ Neglecting to set up proper permissions in Azure Repos.

✗ Overcomplicating pipelines instead of keeping them simple.

✗ Failing to regularly update work items in Azure Boards.

QUICK RECAP

Azure DevOps is essential for modern software development, offering tools for collaboration and automation. Key components include Boards, Repos, and Pipelines, which streamline project management and code delivery.