Azure DevOps

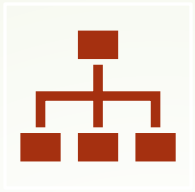
by

Naveen Jayachandran

What is Azure DevOps?

- **Definition**: Azure DevOps is a suite of development tools and services from Microsoft that provides an end-to-end DevOps toolchain for developing and deploying software.
- **Components**: It includes services for CI/CD, version control, project management, and more.

Key Features



Azure Boards: Agile project management and tracking.

Azure Repos: Source control with Git repositories.

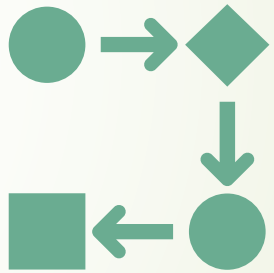
Azure Pipelines: CI/CD automation for building, testing, and deploying.

Azure Test Plans: Testing and quality assurance tools.

Azure Artifacts: Package management for dependency management.

Azure Boards

Overview: Work item tracking, sprint planning, and customizable dashboards.



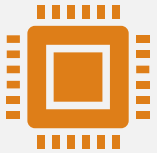
Features: Kanban boards, Scrum boards, backlogs, and queries.

Azure Repos

Overview: Provides Git repositories or Team Foundation Version Control (TFVC).

Features: Code reviews, branch policies, pull requests, and integrations.

Azure Pipelines

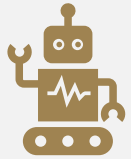


Overview: CI/CD for automating build, test, and deployment processes.

Features: Multi-platform support (Linux, macOS, Windows), YAML pipelines, and integration with various tools.

Azure Test Plans

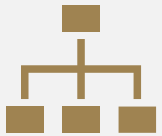
Overview: Comprehensive testing tools for manual and exploratory testing.



Features: Test case management, automated testing, and integration with pipelines.

Azure Artifacts

Overview: Hosting and managing NuGet, npm, Maven, and Python packages.



Features: Dependency management, version control, and feed management.

Benefits of Azure DevOps

- **Integration**: Seamless integration with Microsoft products and other third-party tools.
- **Flexibility**: Supports various development methodologies (Agile, Scrum, Kanban).
- **Scalability**: Scales with your organization's needs.
- **Security**: Built-in security features and compliance certifications.

Use Cases

Small to Large Enterprises: Tailored solutions for various organizational sizes.

Continuous Integration/Continuous Deployment (CI/CD): Automating deployment pipelines.

Project Management: Effective tracking and management of development tasks.

Thank you

By Naveen Jayachandran