

Azure DevOps Services

Microsoft Azure DevOps offers developer **services** that enable teams to plan work, collaborate on code, and deploy applications. Azure DevOps provides the following five services which span the entire life of the development cycle



Azure Boards

Plan, track, and discuss work across teams, deliver value to your users faster.



Azure Repos

Unlimited cloud-hosted private Git repos. Collaborative pull requests, advanced file management, and more.



Azure Pipelines

CI/CD that works with any language, platform, and cloud. Connect to GitHub or any Git provider and deploy continuously to any cloud.



Azure Test Plans

The test management and exploratory testing toolkit that lets you ship with confidence.



Azure Artifacts

Create, host, and share packages. Easily add artifacts to CI/CD pipelines.

Azure Boards



Azure boards help you track tasks, bugs, and features at every development stage. It also integrates with well-established tools present today like Kanban boards, Slack, Microsoft Teams, backlogs, dashboards, and scrum boards. You can customize your dashboard to have the data represented in such a way that makes sense to you. It offers three types of work items :

- **Epic** – Tracks requirements and features.
- **Issue** – Tracks bugs or smaller changes.
- **Task** – Tracks work done.

Azure boards make adding and managing work very simple. You can also make use of the drag and drop feature to prioritize your work.

Azure Repos



With Azure Repos, you can create unlimited, private Git repositories. Git is a distributed version control system to keep track of changes in the source code while developing software. It lets you securely connect with and push code onto your Git repositories. Microsoft has enhanced Git to scale to enterprise-level and invested in Git Virtual File System (GVFS) which helps in managing huge enterprise-level repositories.

Azure Pipelines



Azure Pipelines allow you to automate your builds and deployments. It works with all languages and platforms like Python, Java, Ruby, iOS apps, while running in parallel on macOS, Windows, and Linux. You can make use of Azure Pipelines to easily build and push images to containers registries like Docker Hub and Azure Container Registry. It even gives you the ability to integrate with popular services like Slack and SonarCloud. It lets you implement continuous delivery (CD) of your software to any cloud. For open-source projects, you get ten free parallel jobs with unlimited build minutes. There are many advanced features that you can make use of like test integration, release gates, and many more.

For more info:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started/what-is-azure-pipelines?view=azure->

[devops#:~:text=Azure%20Pipelines%20is%20a%20cloud,it%20available%20to%20other%20users.&text=Azure%20Pipelines%20combines%20continuous%20integration,ship%20it%20to%20any%20target.](#)

Azure Test Plans



With Azure Test Plans you can run manual tests and log defects for your web and desktop applications. It improves your code quality by letting you track and access quality throughout your testing lifecycle that helps you to get end to end traceability. Azure Test Plans can help you test your application across desktop and web apps.

For more info:

[<https://azure.microsoft.com/en-in/blog/deep-dive-into-azure-test-plans/#:~:text=Azure%20Test%20Plans%2C%20a%20service,and%20gathering%20feedback%20from%20stakeholders.>](#)

Azure Artifacts



Azure Artifacts helps to make your workflow seamless with deeply integrated package management and lets you create and share Maven, npm, NuGet, and Python package feeds from public and private sources. Your packages are protected as Azure Artifacts keeps all your public packages safe in your feed.

Azure Artifacts is billed on a consumption basis, and is free up until 2 GB of storage. In the case that your organization needs more storage, you need to set up billing.

For more info:

<https://docs.microsoft.com/en-us/azure/devops/artifacts/start-using-azure-artifacts?view=azure-devops#:~:text=Azure%20Artifacts%20is%20a%20service,need%20to%20set%20up%20billing.>