Agenda: About Azure DevOps

- What is Azure DevOps
- Version History
- Azure DevOps Features
- Azure DevOps Tools and Project Life Cycle
- Create DevOps Account
- Create Organization
- Create Project and Get Started
- Create Users and invite teams members

What is Azure DevOps?

- Azure DevOps (formerly Visual Studio Team Services) is a hosted **suite of service** providing development and collaboration tools for anyone who wants an enterprise-grade DevOps tool chain.
- Azure DevOps can help your team release code in a more efficient, cooperative, and stable manner.
- Azure DevOps has a lot of **inbuilt functionality** that allows teams to get up and running with managing their project and automating their workflows to increase productivity with a very short initial learning curve.

You can quickly get up and running with the many tools available.

- Agile tools covering Kanban/scrum project methodologies
- Git repositories for source control.
- Build and Release pipelines for CI/CD automation.
- Many pre-built deployment tasks/steps to cover the most common use cases and the ability to extend this with your own tasks.
- Hosted build/release agents with ability to additionally run your own
- Custom dashboards to report on build/release and agile metrics.
- Built in wiki.

Azure DevOps is available in two different forms:

1. **Azure DevOps Server**, collaboration software for software development formerly known as Team Foundation Server (TFS) and Visual Studio Team System (VSTS)
2. **Azure DevOps Services**, cloud service for software development formerly known as Visual Studio Team Services and Visual Studio Online.

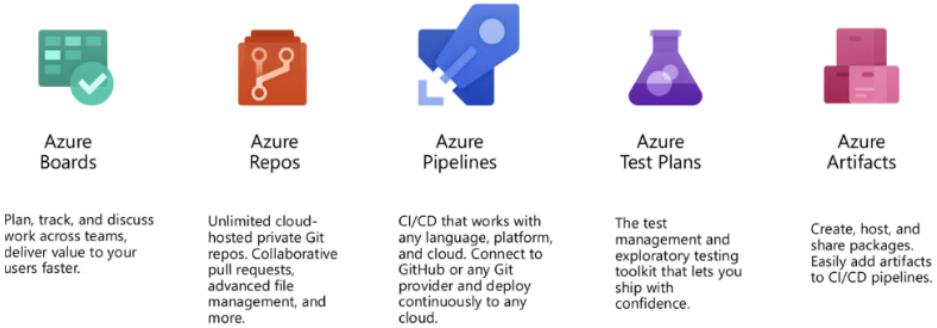
History: This first version of Team Foundation Server was released March 17, 2006.

Product name	Form	Release year
Visual Studio 2005 Team System	On-premises	2006
Visual Studio Team System 2008	On-premises	2008
Team Foundation Server 2010	On-premises	2010
Team Foundation Service Preview	Cloud	2012
Team Foundation Server 2012	On-premises	2012
Visual Studio Online	Cloud	2013
Team Foundation Server 2013	On-premises	2013
Team Foundation Server 2015	On-premises	2015
Visual Studio Team Services	Cloud	2015
Team Foundation Server 2017	On-premises	2017
Team Foundation Server 2018	On-premises	2017
Azure DevOps Services	**Cloud**	**2018**
Azure DevOps Server 2019	**On-premises**	**2019**

Azure DevOps Features

You can use one or more of the following features based on your business needs:

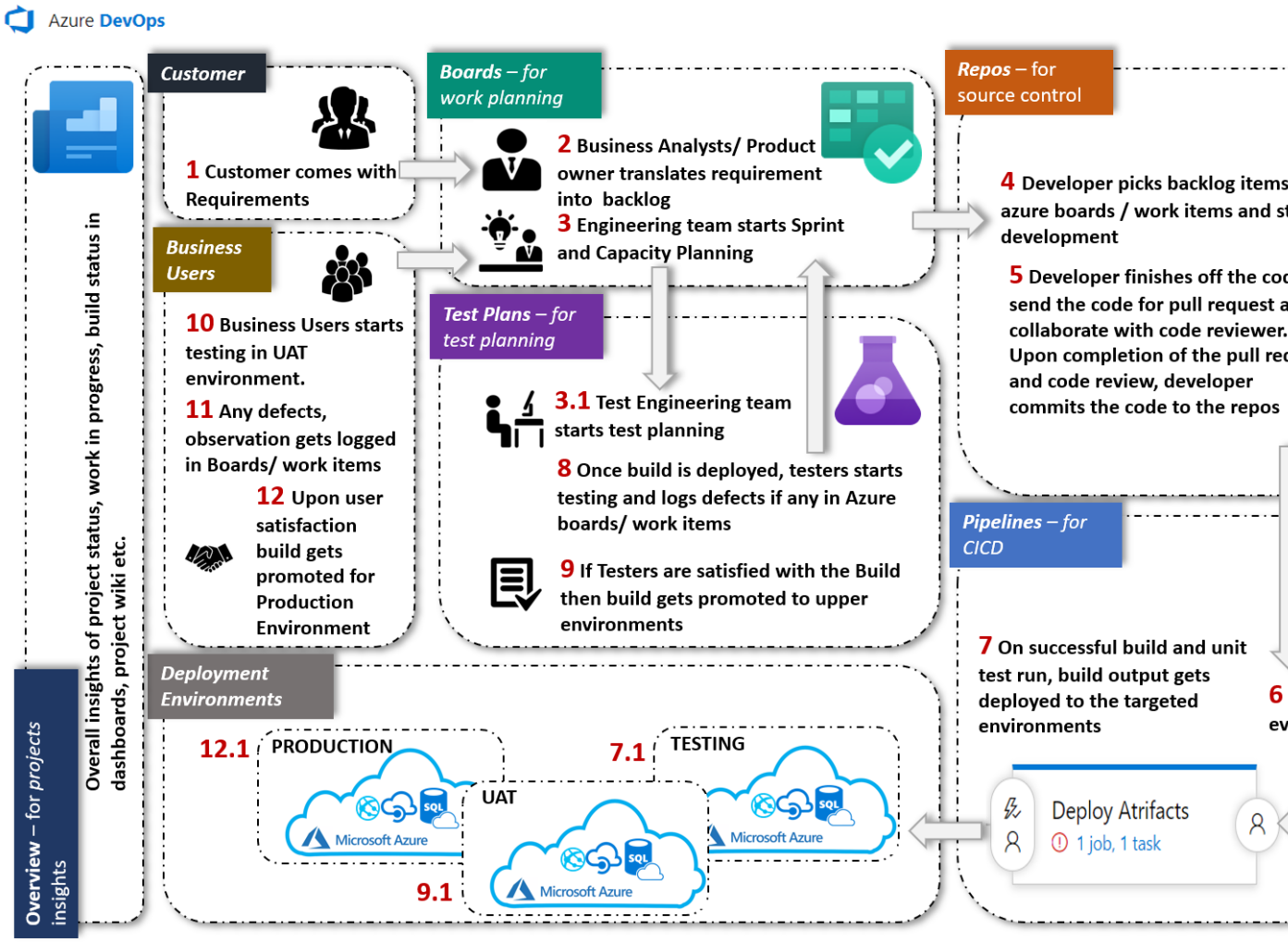
1. **Azure Boards** delivers a suite of Agile tools to support planning and tracking work, code defects, and issues using Kanban and Scrum methods.
2. **Azure Repos** provides Git repositories or Team Foundation Version Control (TFVC) for source control of your code.
3. **Azure Pipelines** provides build and release services to support continuous integration and delivery of your apps.
4. **Azure Test Plans** provides several tools to test your apps, including manual/exploratory testing and continuous testing.
5. **Azure Artifacts** allows teams to share Maven, npm, and NuGet packages from public and private sources and integrate package sharing into your CI/CD pipelines.



Azure DevOps supports **adding extensions** and integrating with other popular services, such as: Campfire, Slack, Trello, UserVoice, and more, and developing your own custom extensions.

Azure DevOps provides extensive integration with industry and community tools. It is far from the closed-off single vendor solution that was the early version of TFS. As noted above, there is a marketplace which makes hundreds of extensions available, so if Azure Develops doesn't do something out of the box, odds are a tool exists in the market which does.

Azure DevOps Tools and Project Life Cycle



Designing a License Management Strategy:

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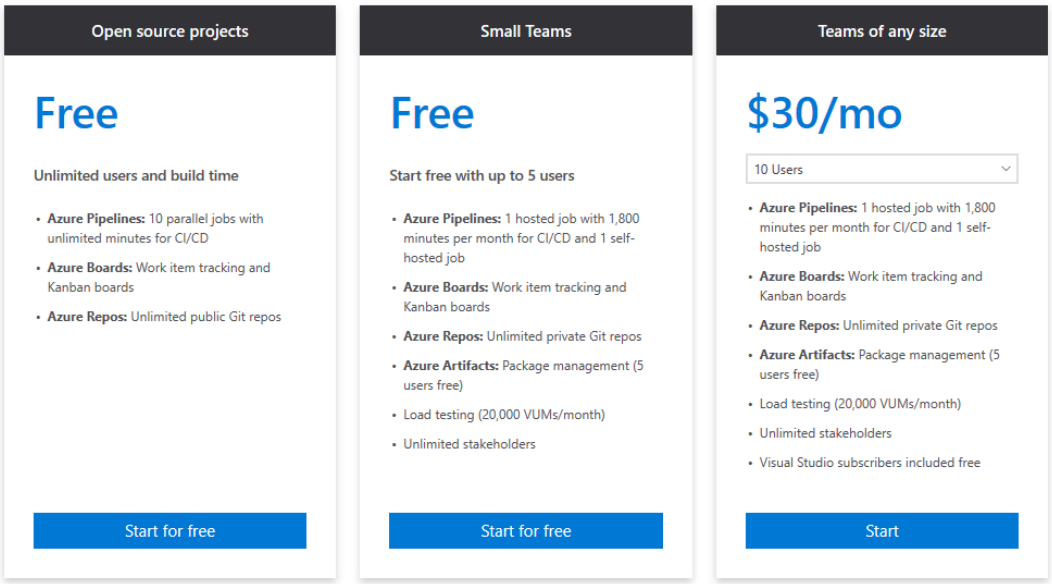

https://azure.microsoft.com/en-in/pricing/details/devops/azure-devops-services/

To Create an DevOps Account / Organization

Sign up with a personal Microsoft account

1. Visit https://azure.microsoft.com/services/devops/
2. Click Start free
3. Either Login with Existing Microsoft Account or Create a New one.

An organization is created based on the account you used to sign in. Sign in to your organization at any time, (https://dev.azure.com/{yourorganization}).

Create a Project to get started

- If you signed up for Azure DevOps with a newly created Microsoft account (MSA), your project is automatically created and named based on your sign-in.
- If you signed up for Azure DevOps with an existing MSA or GitHub identity, you're automatically prompted to create a project. You can create either a public or private project.
- A **public GitHub repository** is accessible to everyone, whereas a **private repository** is accessible to you and the people you share it with. In both cases, only collaborators can commit changes to a GitHub repository.

Create Users

1. Create an outlook ID
2. Activate your Subscription (FREE account or Azure Pass Sponsorship or get owner rights other users subscription)
3. Visit https://portal.office.com

4. Go to Azure Active Directory and create users user1@orgname.onmicrosoft.com and user2@orgname.onmicrosoft.com

Invite team members

1. Create couple of outlook ids
2. Use primary email id and visit https://dev.azure.com/.
3. Start Free
4. Create a project to get started
    a. Project Name = "Demo Project"
    b. Description = "For Demo"
    c. Visibility = "Private"
    d. Expand Advanced, Version Control = Git, Work Item process = "Agile"
    e. Create Project
5. **Invite Users**
    a. Use bread crump and navigate to Organization
    b. Select ⚙ **Organization settings**.
    c. Select **Users → Add new users**.
    d. Users = <Email Id of another User), Access level = Basic, Add to project = <project created before>, Azure DevOps Group=Project Contributors

Note: You will have to now login as another use and accept the invitation. Do the same in different users…

Issue about Parallel Jobs:

https://devblogs.microsoft.com/devops/change-in-azure-pipelines-grant-for-private-projects/

Types of Users

Basic Users = 5 are FREE + $6/- for additional user. (Azure Boards + Azure Repos + Azure Pipelines + Azure Test Plans + Azure Artifacts)

Stakeholders = Any number are FREE. (Azure Boards)

Visual Studio Subscribers = Any number are FREE. (Azure Boards + Azure Repos + Azure Pipelines + Azure Test Plans + Azure Artifacts)

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