

Azure DevOps



Agenda Agenda



01 What is Azure?

02 What is DevOps?

03 Introduction to Azure DevOps

04 Azure DevOps Services

Managing a DevOps project using Azure DevOps

06 Summary



What is Azure?

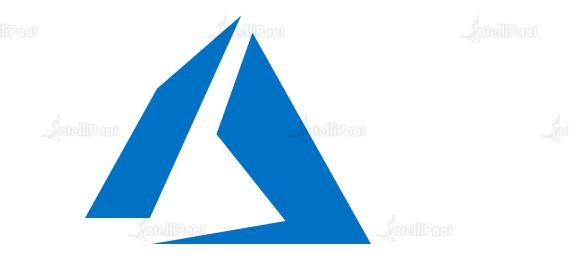
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What is Azure?



Microsoft Azure is a cloud service provider whose services can be used on a business to solve the challenges and provide architectural solutions





What is DevOps?

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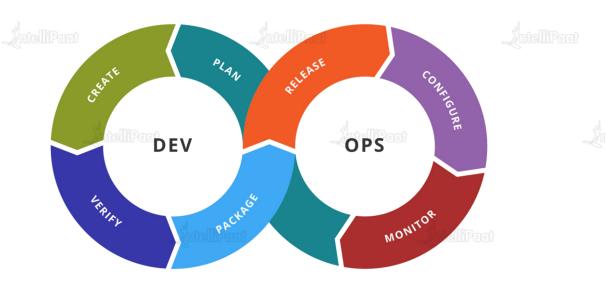
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What is DevOps?

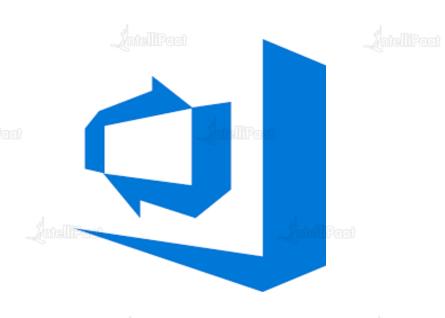


DevOps is the union of people, process, and products to enable continuous delivery of value to our end users





Introduction to Azure DevOps

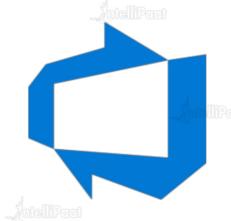


Introduction to Azure DevOps



Azure DevOps is a tool provided by Microsoft Azure which can be used to implement a DevOps lifecycle in a business

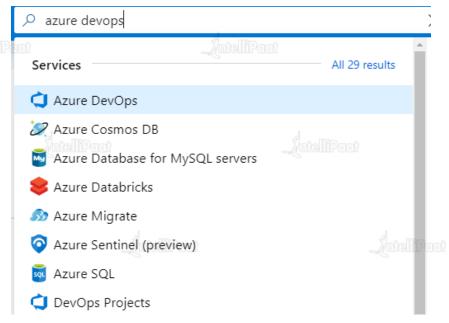
Visual Studio Team Services (VSTS) has been upgraded and rebranded to Azure DevOps



Launching Azure DevOps



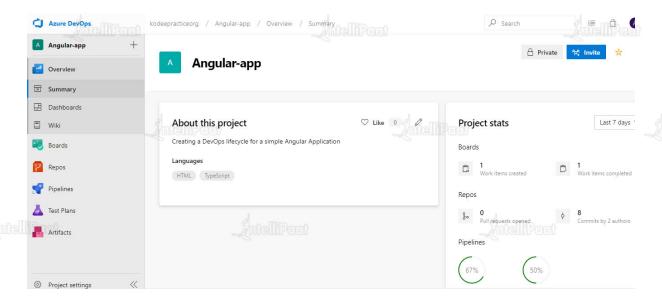
Open portal.azure.com and search for Azure DevOps or directly open dev.azure.com



Introduction to Azure DevOps

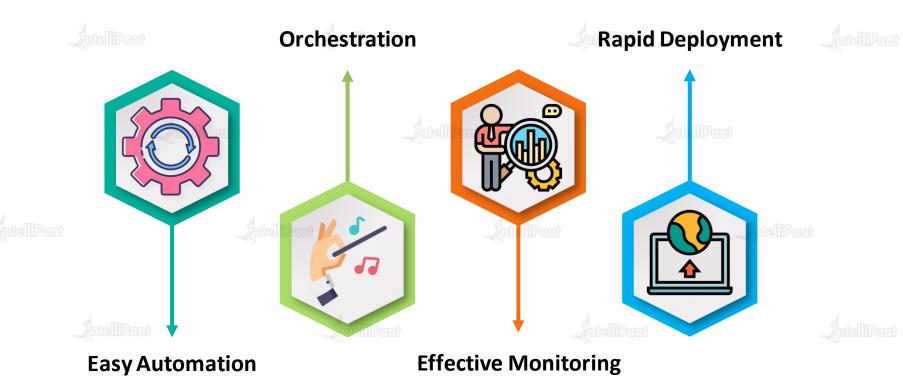


A sample Azure DevOps project summary view



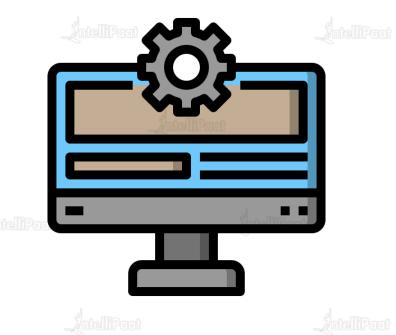
Benefits of DevOps on Azure





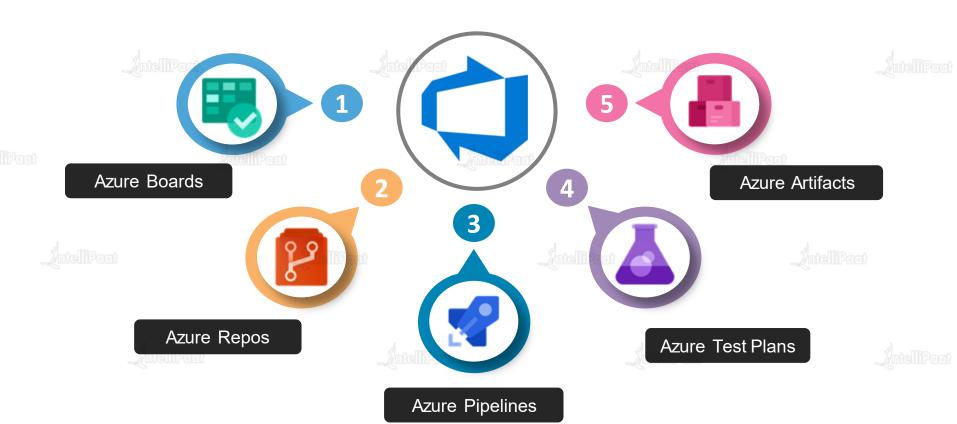


Azure DevOps Services



Tools provided by Azure DevOps





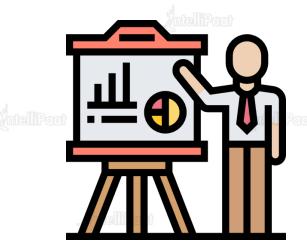




Why Azure Boards



Tool for tracking work using Kanban boards, backlogs, sprints, team dashboards and custom reporting



Azure Boards Concepts





Work Items

Use work items to track anything you want to track. For instance, a bug in the website



Boards

Implement
Kanban practices
by creating and
visualizing a work
flow for the team



Backlogs

Plan and prioritize the work for a team within one or multiple products



Sprints

Plan a work for a team which has to be completed in a specified period of time



Queries

Filter criteria to list work items for sharing or performing bulk updates



Why Azure Repos



Get a free unlimited private repository for hosting software development version control. Also, GitHub connectivity is available if you do not want Azure Repos.

Connect your favorite development environment to Azure Repos to access your repos and manage your work.



Command-line



Visual Studio Code



Visual Studio



Xcode



Eclipse



IntelliJ

What is GitHub?

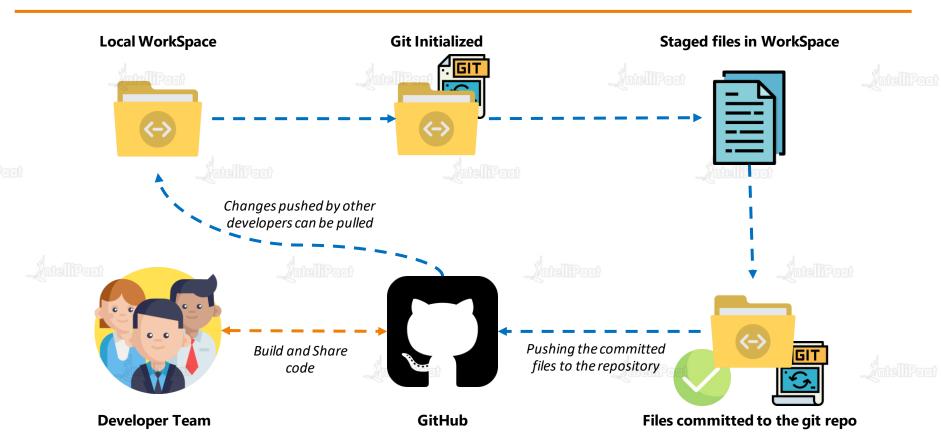


A version control tool for software development. Discover, share and build better software either open source or private projects. Currently GitHub is owned by Microsoft.



Git Lifecycle





Common GitHub commands

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\$ git init

\$ git status

\$ git add

\$ git commit –m "message"

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Common GitHub commands

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\$ git remote add origin <Repo URL>

\$ git push

\$ git clone

\$ git pull

Common GitHub commands

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\$ git branch <branch-name>

\$ git checkout
branch-name>

\$ git log

\$ git revert <commit-id>



Why Azure Test Plans



Use Azure Test Plans to improve the quality of your code by using planned and exploratory tests



Capture rich data



Test across web and desktop



Get end-to-end traceability

Why Azure Test Plans





Exploratory test tool – Test and feedback

About

The Exploratory Testing extension is now Test & Feedback. Learn more.



Test & Feedback

Version: 1.0.150.0

Now everyone on the team can own quality.

Capture findings, create issues, and collaborate with
the team, directly from the browser.

Quick demo



Watch the 2-min video to know how the extension works!

Feedback



Have something to share with us? Reach out to us. Help!



Visit our documentation page to learn more.

Rate us!



Liked the extension? You can rate us!

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Doing a exploratory test on deployed QA site

Creating a Azure DevOps project

Integrating GitHub with the DevOps project and Azure boards

Creating a CI/CD pipeline for a Angular application (Build, staging and production)



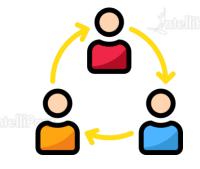




Why Azure Artifacts



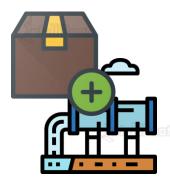
From public and private resources, you can create and share Maven, npm, Python and other packages







Manage all package types



Add packages to any pipeline



Why Azure Pipelines



Azure cloud-hosted pipelines for Linux, MacOS, and Windows. Build any kind of application on Any Platform using Any Language and deploy it to any Cloud provider or on-premises.



Any language, any platform



Deploy to any cloud



Advanced workflows and features



Extensible



Containers and Kubernetes

Azure Pipelines





Continuous delivery

process by which code is built, tested, and deployed to one or more stages



Continuous integration

practice used by development teams to simplify the testing and building of code



Environment

This is a collection of resources, and on which you can launch your application



Pipeline

It defines the multiple stages of CI and CD processes for your application



Run and Stage

Run is one execution of a pipeline and stage is a logical boundary in it

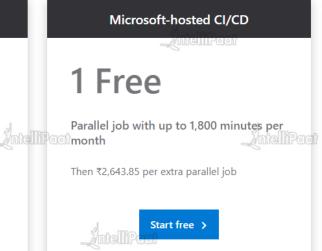
Azure Pipelines





Build on Linux, macOS and Windows with Pipelines









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Managing a DevOps project using Azure DevOps

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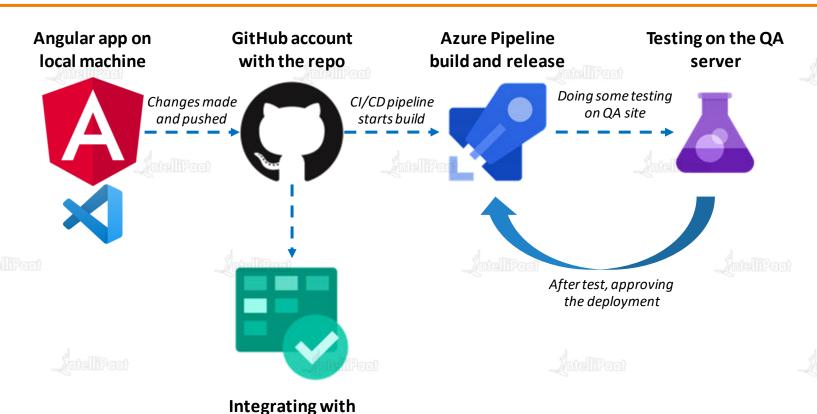
Azure DevOps Demo



- Creating a Azure DevOps organization
- Creating a Azure DevOps project
- Integrating GitHub with the DevOps project and Azure boards
- Creating a CI/CD pipeline for a Angular application (Build, staging and production)
- Use Azure Test and Feedback tool to identify and create work items and use manual tests to solve them
- Creating a dashboard for an overview of the DevOps project

Azure DevOps Demo Outline





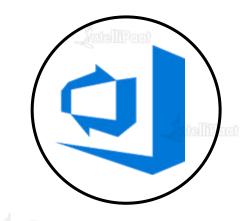
the GitHub repo

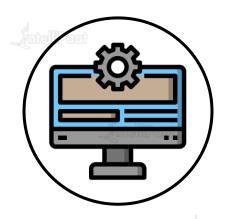




Summary



























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24X7 Chat with our Course Advisor