



Introduction to CICD with Azure DevOps

20 min edition

Contact...



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@retracement



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Likes...



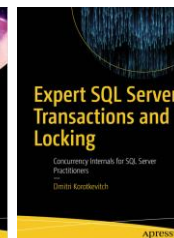
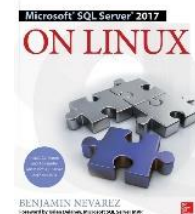
Community...



Badges...



Tech ed/ reviewer...



(2nd edition)

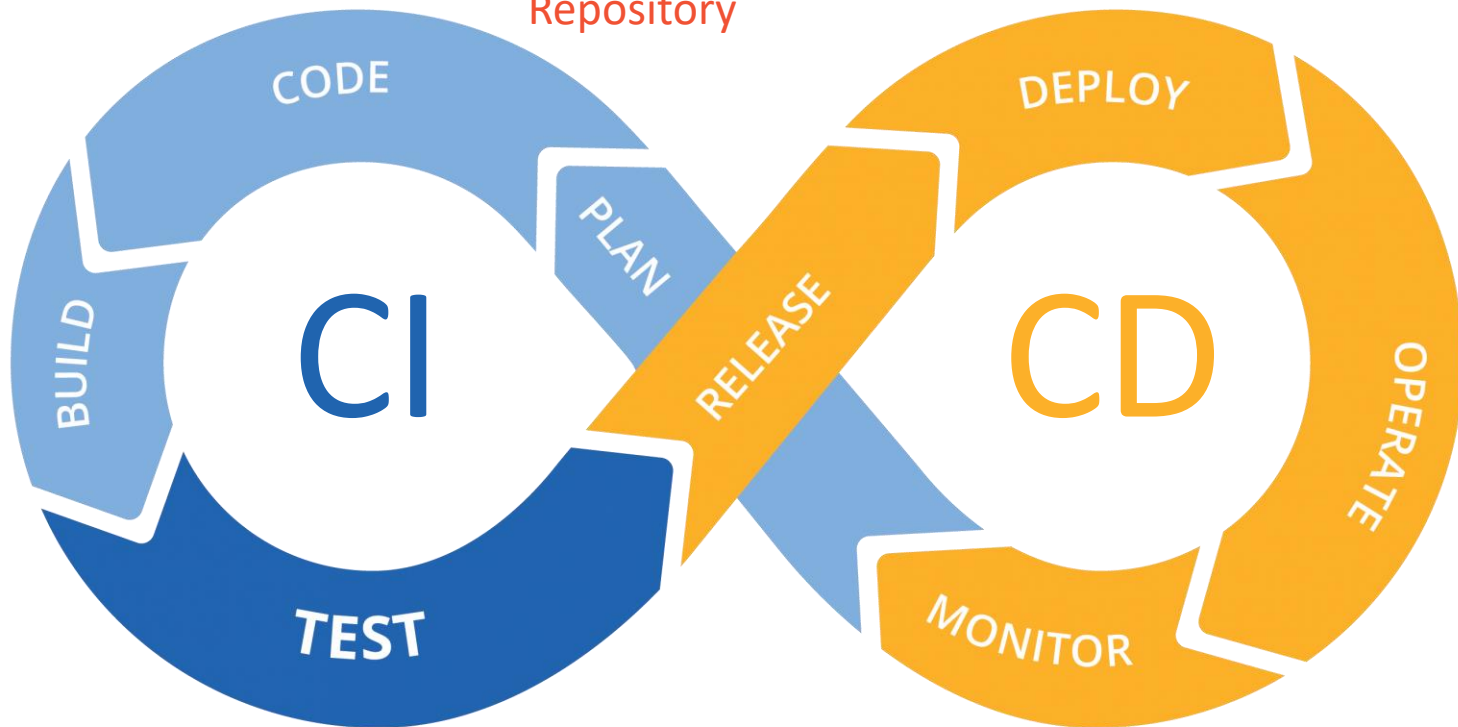
What is CICD?



Repository



Artifact



What is Azure DevOps?

- Azure DevOps Server and Azure DevOps Service

<https://docs.microsoft.com/en-us/azure/devops/user-guide/what-is-azure-devops>



- Service capacity and user based license model (user licenses are Basic, Stakeholder, and Visual Studio subscriber *1)

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/access-levels>

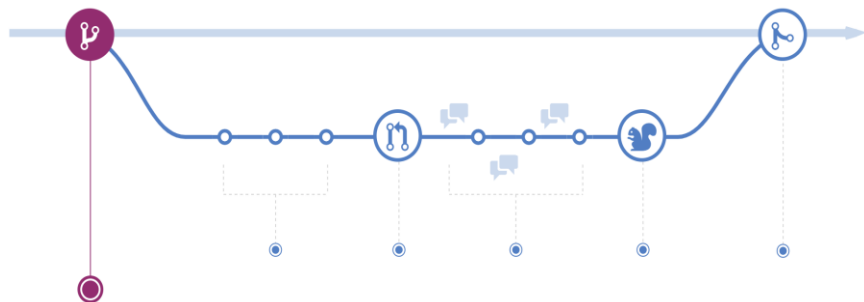
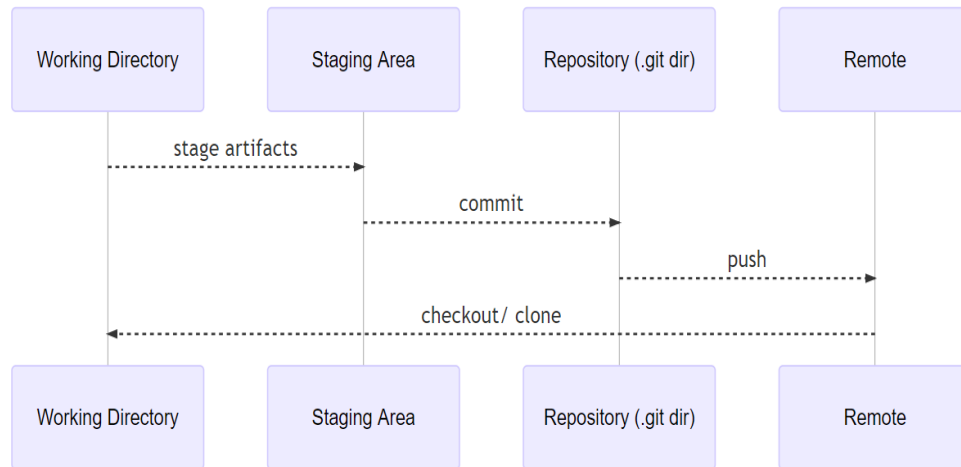
<https://azure.microsoft.com/en-us/pricing/details/devops/azure-devops-services/>

- Supports Git or Team Foundation Version Control based projects with Agile, Basic, CMMI, and Scrum work item process.

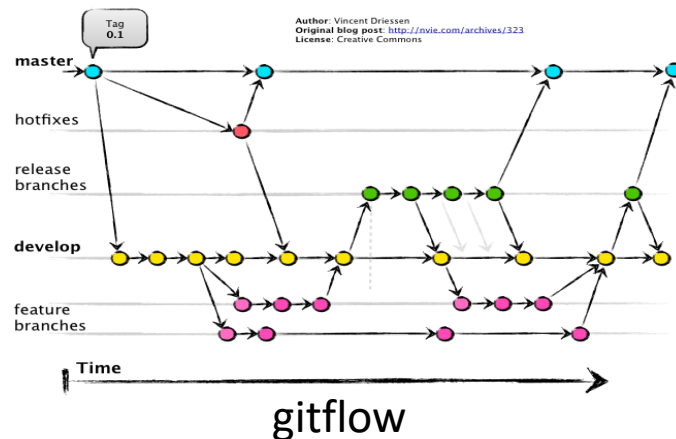
*1 with some nuances

A quick intro to Git

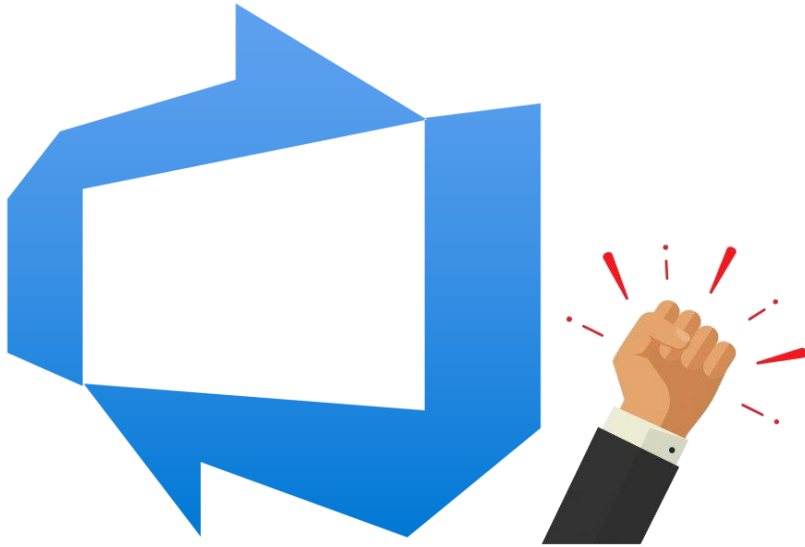
Git clone (clone remote)
Git status (status of local)
Git diff (show files diffs)
Git add (add changes files to stage)
Git commit (commit stages files to local)
Git checkout (switch or create branches)
Git branch (create or list branches)
Git pull (pull down changes from remote)
Git push (push changes to remote)
Git log (show commit log)
...and many more!



Github flow



Azure DevOps or GitHub?



Repositories, projects, boards, pipelines, wikis?

Demo

Quick intro to build and release pipelines

In Summary...

- Azure DevOps is an excellent starting point for implementing CI/CD pipelines
- Keep it simple and start small
- Attempt to automate everything (don't be afraid of gated release tho)
- Parameterise and variable-ise EVERYTHING
- Make sure you have an Azure DevOps playground to try new things.