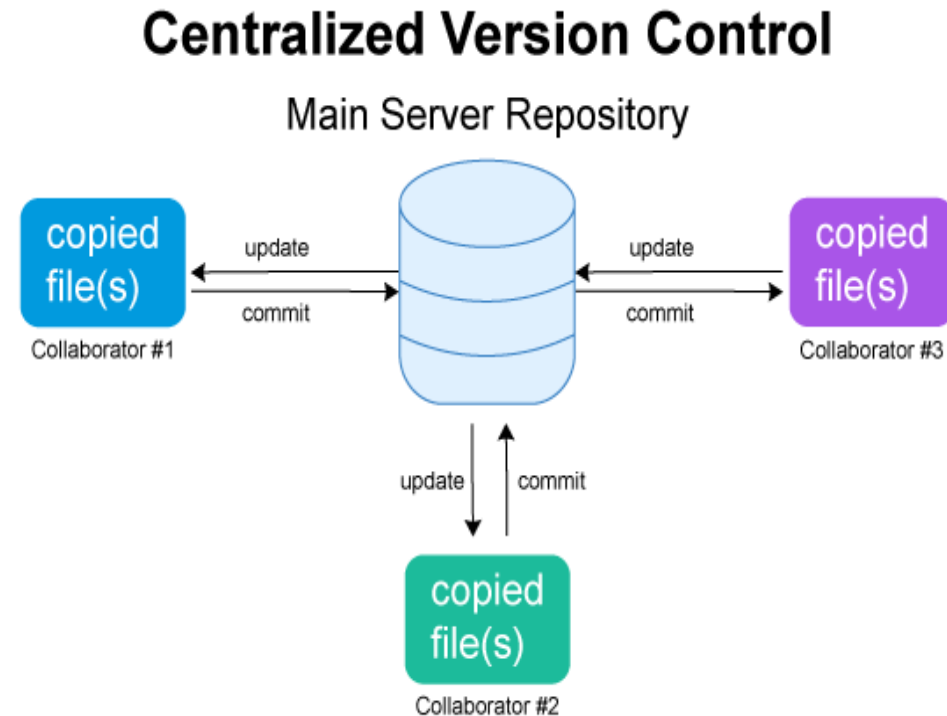# Azure Repos

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Azure Repos

- Repo is used to manage and track your code and its changes while working with a team.

- Azure DevOps offers two Repos models of version control: Git and TFVC (Team Foundation Version Control)

- Azure repos supports IDE like Visual Studio, VS Code, Xcode, Eclipse, Command-line and IntelliJ etc.

- Supports code import of an existing repo from GitHub, Bitbucket and GitLab.
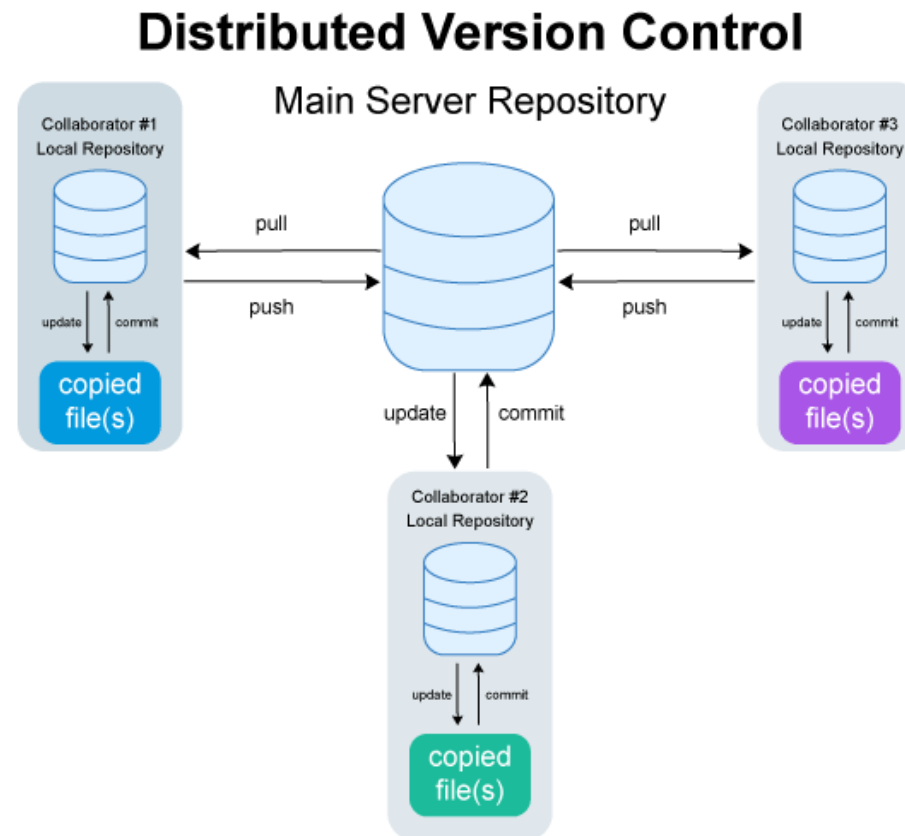
TFVC: Team Foundation Version Control

A Centralized Version Control system provided by Azure DevOps to manage your code and files and track changes you make in your code over time.
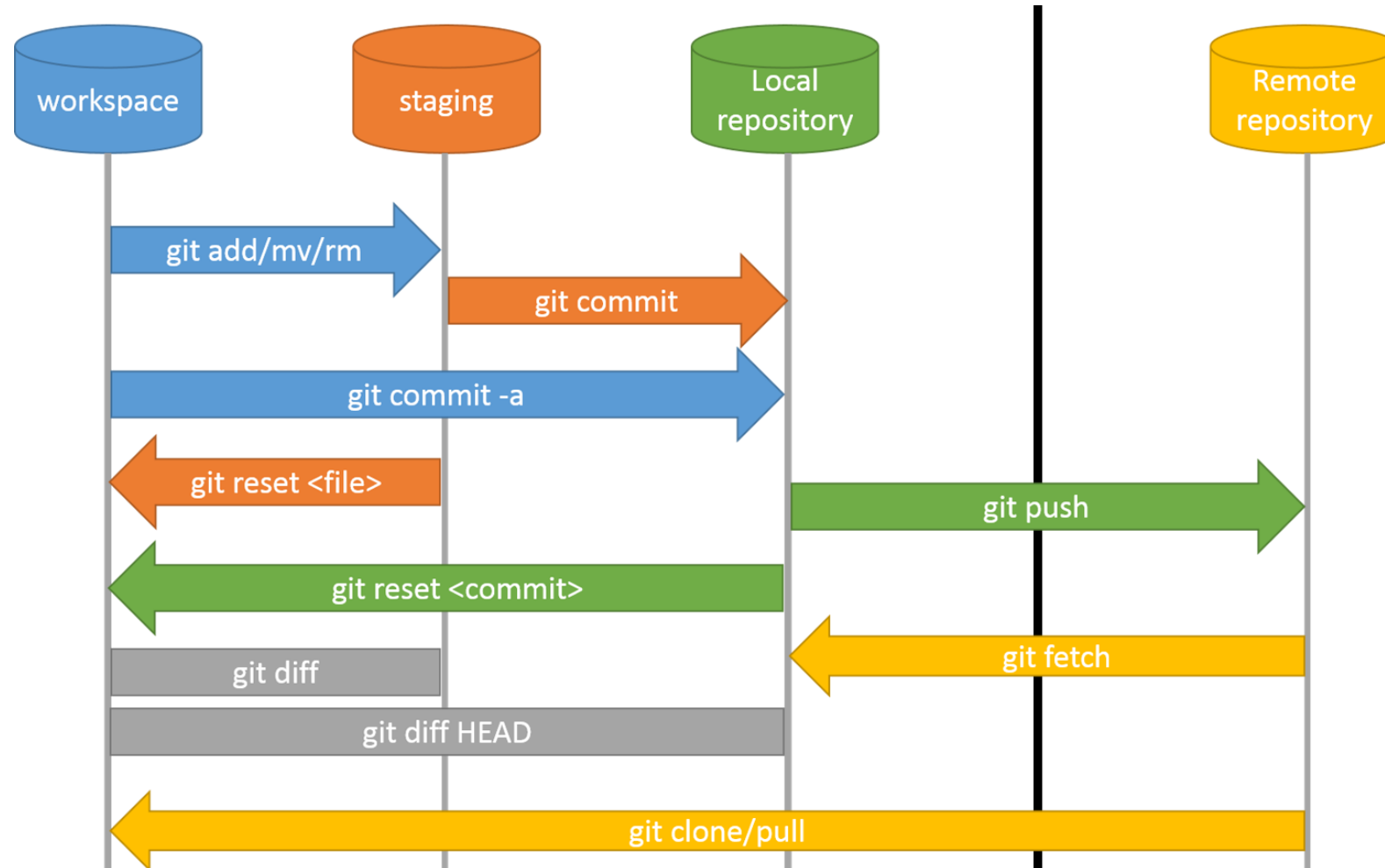

Centralized Version Control

Main Server Repository

copied file(s)
update
commit
Collaborator #1

copied file(s)
update
commit
Collaborator #3

copied file(s)
update
commit
Collaborator #2

DotNetTricks

Git

Git is an Open source Distributed Version Control system that is designed to manage project version control speedy and effectively.

Distributed Version Control

Main Server Repository

Collaborator #1 Local Repository

Collaborator #3 Local Repository

Collaborator #2 Local Repository

pull

pull

push

push

update   commit

update   commit

update   commit

update   commit

copied file(s)
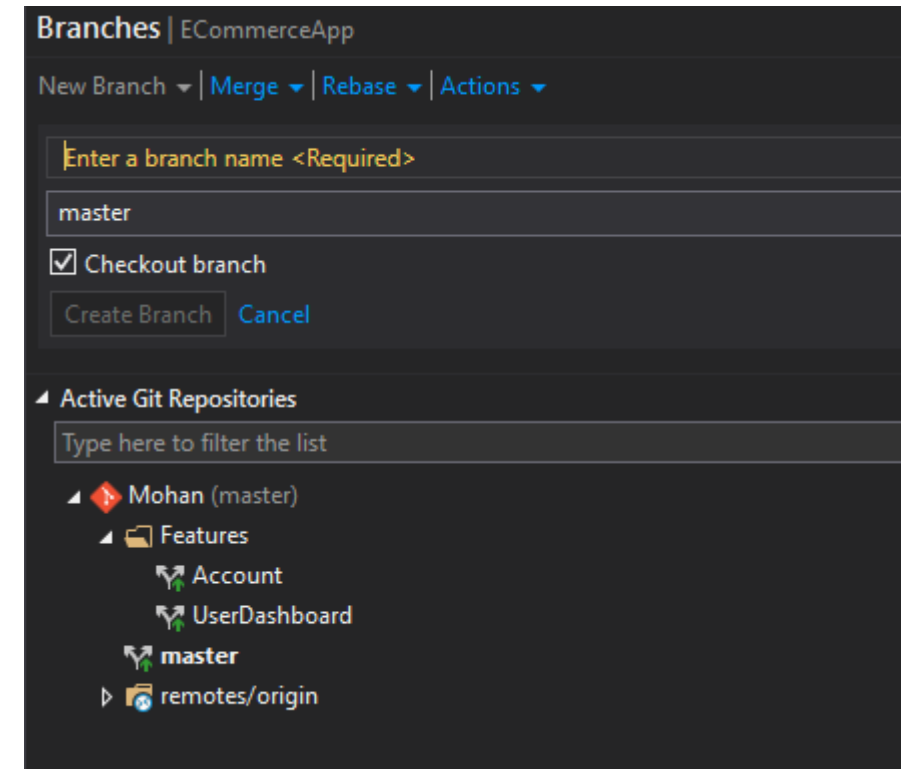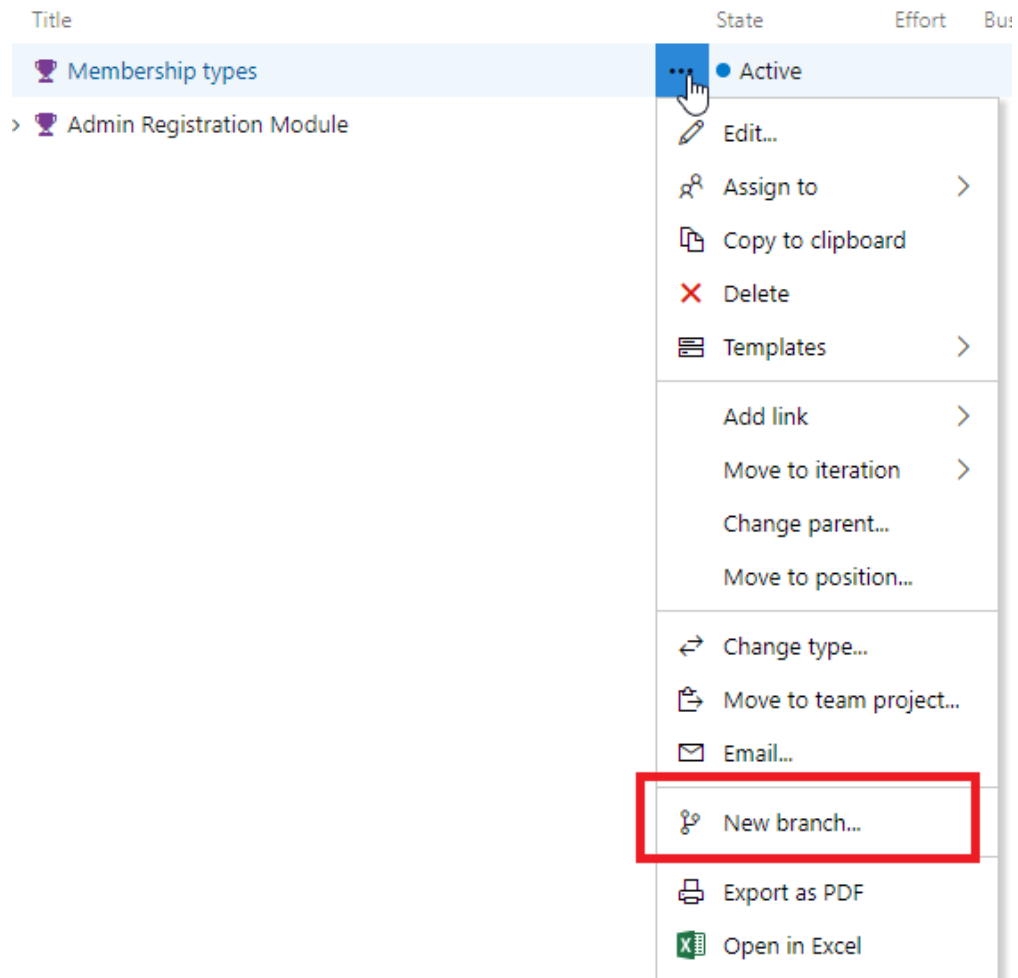
copied file(s)

copied file(s)

DotNetTricks

Git vs GitHub

- A free and open-source version control system to manage code

- A command line tool

- Creates a local repository to track changes locally instead of storing them on a server

- No user management

- A cloud based service based on git to manage code

- Offers GUI interface

- Repository is created on cloud to store code in a centralized location
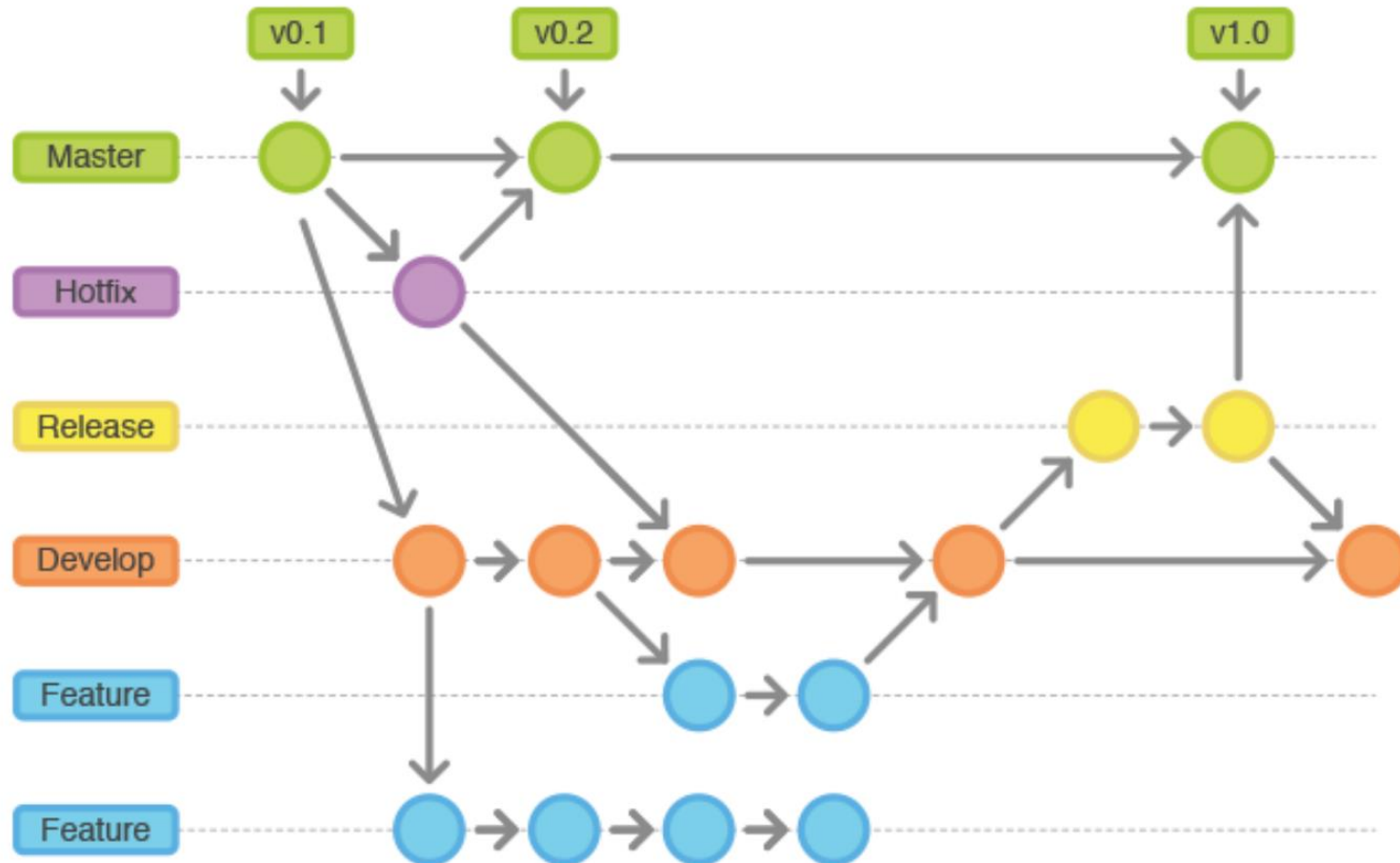
- Built-in user management

DotNetTricks
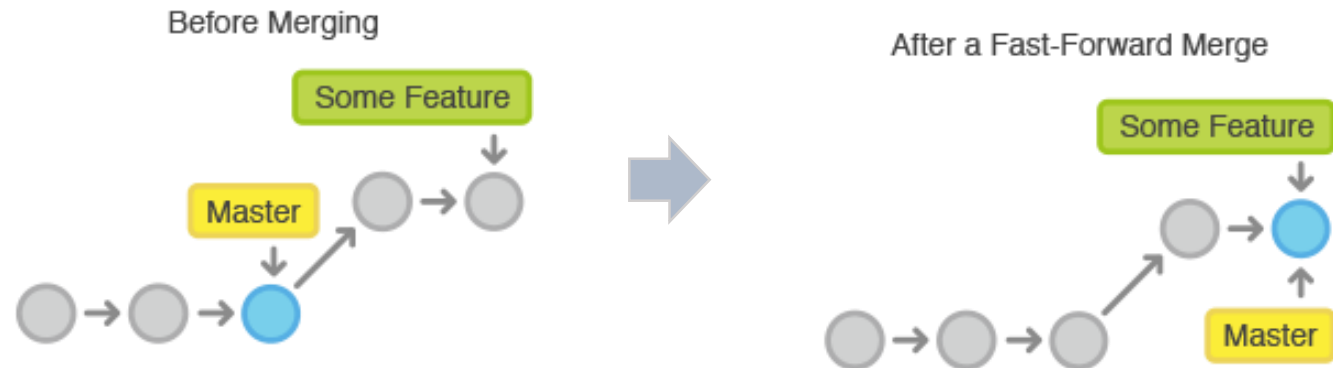
Git Work Flow

Create A Feature Branch

Branches: Master, Develop, Feature, Release

Merging: Fast-Forward & 3-Way Merge

Merge Pull Request