Description

The objective of this project is to facilitate collaborative development on a virtual machine (VM) using Git as version control system, and subsequently pushing changes to Azure Repos for centralized code management and collaboration.

Business Problem Statement and Prerequisites

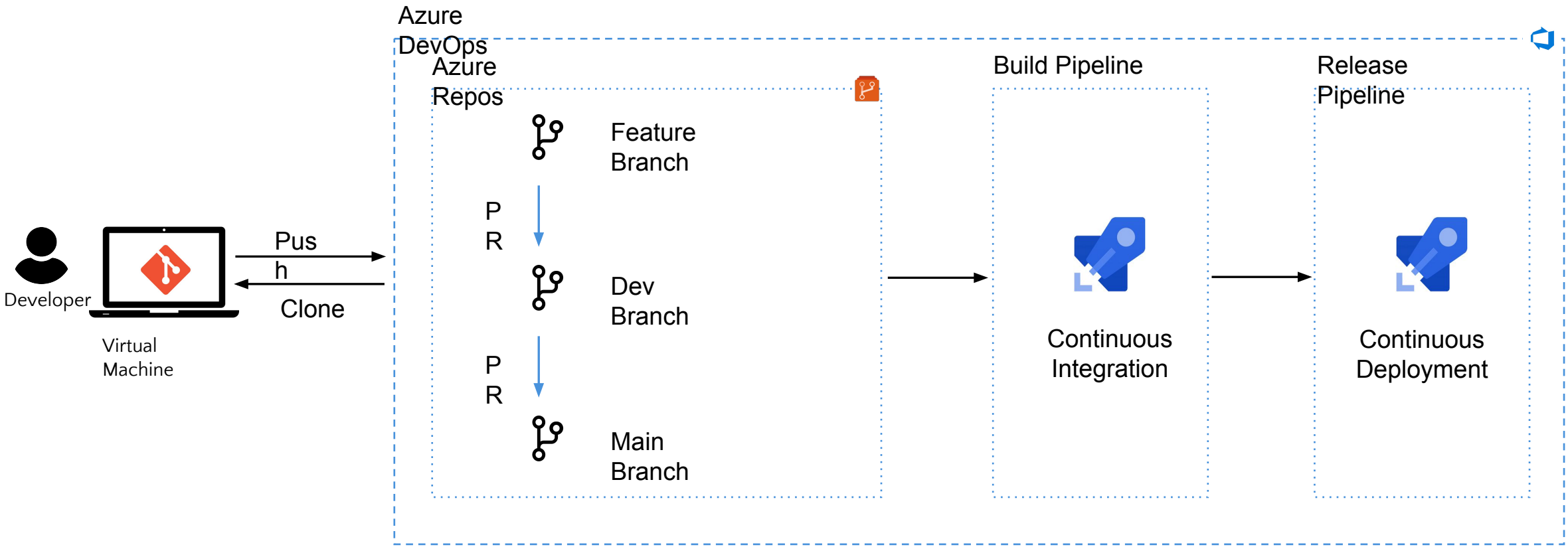
Business problem statement

- One of the leading financial company wants to make it easier for there developers to work together on coding projects. We're setting up a system where they can use a virtual machine (VM) to write and test their code.
- We'll use Git to keep track of changes they make to the code. To make things even simpler, we'll use Azure Repos to store all the code in one central place, making it easier for everyone to collaborate.
- This project aims to make coding smoother and more organized for our team, helping us to work faster and deliver better results for our clients.

Pre- requisites

- Azure Virtual Machine for development purpose .
- Azure DevOps Organization and project.
- Git Installation

High-Level Architecture:



Version controlling process using Azure Repos and Helpful documents

CELEBAL TECHNOLOGIES

- **Set up VM**: Create a VM in Azure with Git installed.
- **Clone Repo**: Clone your Azure Repos repository to the VM.
- **Make Changes**: Work on code changes on the VM.
- **Commit Changes**: Use Git to commit changes locally.
- **Push to Azure Repos**: Push changes to Azure Repos.
- **Create Pull Request**: From Azure Repos, create a pull request (PR) for your changes.
- **Review Changes**: Collaborators review the PR, suggest modifications, and discuss.
- **Address Feedback**: Make necessary changes based on feedback.
- **Merge PR**: Once approved, merge the PR into the main branch.
- **Collaborate**: Team members can pull changes, review, and collaborate.

Helpful documents

https://learn.microsoft.com/en-us/azure/devops/user-guide/code-with-git?view=azure-devops
https://medium.com/@tonibenn/two-part-git-repo-project-in-azure-devops-4c4b3b52af2d
https://medium.com/@botdotcom/learn-how-to-install-and-use-git-on-windows-9deecbd6f126