MANAGING A CI/CD PIPELINE WITH AWS CODE FAMILY

PROJECT 2 / 6

SETTING UP A GIT REPOSITORY WITH AWS CODECOMMIT

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01 CREATE A GIT REPOSITORY

- Git is a version control and code management system that helps developers to tracking their changes and collaborating on code together.
- A Git repository is like a folder that contain all of the application/ project's file in one place.
- To create a Git repository in the cloud, I used CodeCommit.

My setup page for a CodeCommit repo

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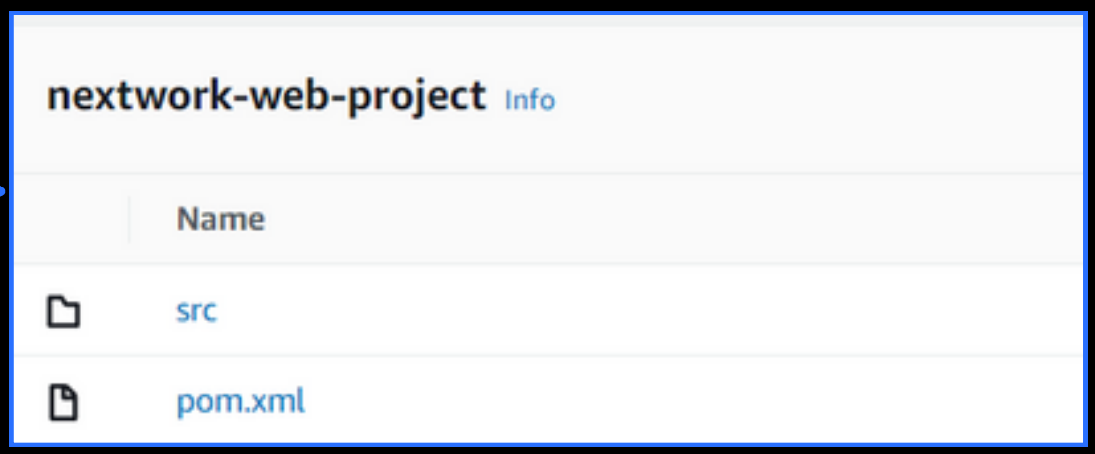
02

MY FIRST COMMIT

- I initialised a Git repo in my web application by running the command **git init -b main**.

- To commit and push my code, I will have to run three different commands in order:
    a. **git add** places the file that I've created/edited in a staging area i,e. preparing them to be saved.
    b. **git commit** is like pushing a "save" button that confirms my changes.
    c. **git push** sends my changes upstream to my remote origin i,e. CodeCommit repository I've set up.

Files I committed showing up in my CodeCommit repo!



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GIT IN ACTION

- I wanted to see Git working in action, so I updated my index.jsp file by adding two new lines.
- Then I tried seeing these changes in my CodeCommit repository, but this didn't work because I had only saved these changes in my local repository without pushing the changes upstream.
- I finally saw the changes in my CodeCommit repository after running the same three Git commands in my Cloud9 terminal:
  - git add .
  - git commit
  - git push

03

My updated index.jsp file showing up in CodeCommit!

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MY KEY LEARNINGS

01

Git means a distributed version control system that allows multiple people to work on a project simultaneously, track changes, and manage different versions of the codebase efficiently.

02

A local repository means a version-controlled directory on your own computer where you can manage your code, make changes, and commit updates before pushing them to a remote repository.

03

A remote origin is is the default remote repository where your local Git repository is connected, typically used to push and pull changes between your local and remote repositories.

04

To commit my code, I had to run three key commands:

- git add .
- git commit
- git push

05

By doing this project I enhanced my understanding of AWS services and their integration into development workflows.

FINAL THOUGHTS...

- This project took me 45 minutes to complete.
- Delete **EVERYTHING** at the end! Let's keep this project free :)
- One thing I didn't expect was how easy and seamless it was to set up a cloud environment for the web app project, making the development process more efficient and collaborative.
- In the next part of this 6-project series, I will use **AWS CodeArtifact** to securely store and manage the dependencies for the project.

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