



# Set up a Git Repo with AWS



Prerana P

A screenshot of a GitHub commit history. The repository is 'Pprerana / AWS\_CI\_CD'. The commit details are as follows:

Name	Last commit message	Last commit date
..		
WEB-INF	Initial commit. Updated index.jsp.	22 minutes ago
index.jsp	Update index.jsp	7 minutes ago



# Introducing Today's Project!

## What is AWS CodeCommit?

AWS CodeCommit is a fully managed source control service that allows teams to host secure and scalable Git repositories in the cloud. It is useful because it enables seamless collaboration on code, integrates with other AWS services, provides high av

## How I'm using CodeCommit in this project

In today's project, I used AWS CodeCommit to host my Git repository. I created a new repository to store my code, pushed my local changes after committing them, and collaborated with my team by allowing them to access and contribute to the codebase s

## One thing I didn't expect...

One thing I didn't expect in this project was the ease of integration between AWS CodeCommit and other AWS services. It streamlined the workflow significantly, allowing for seamless collaboration and management of code, which enhanced the overall dev

## This project took me...

This project took me about 1 to 2 hours to complete. This included setting up the AWS CodeCommit repository, making code changes, and pushing the updates, as well as testing the integration and ensuring everything worked smoothly with Git and Cloud9.



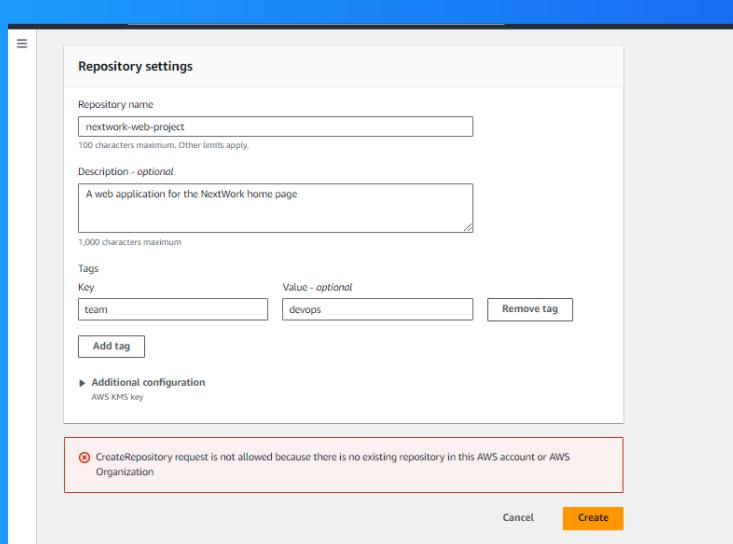
# Create a Git repository

## What is Git?

Git is a distributed version control system designed to track changes in source code during software development. It allows multiple developers to collaborate on a project, manage code versions, and work simultaneously without conflicts. Git stores p

## What is a Git repository?

A Git repository is a storage space where a project's code, along with its complete history of changes, is tracked and managed. It contains all files, commits, branches, and tags. Repositories can be local or remote, allowing multiple users to collab





# My first commit

I initialized a Git repo by running the command `git init` in Cloud9. This command sets up a new local Git repository in the current directory, allowing version control for the project by creating a hidden `.git` folder to track changes.

## I used three commands to push local changes to CodeCommit

The first command I ran was `git add ..`. This command stages all the modified and new files in the current directory, preparing them to be committed. It tells Git which changes should be tracked and included in the next commit.

The second command I ran was `git commit -m "message"`. This command creates a snapshot of the staged changes, saving them to the local repository with a descriptive message. The message helps track the purpose of the changes in the project's history.

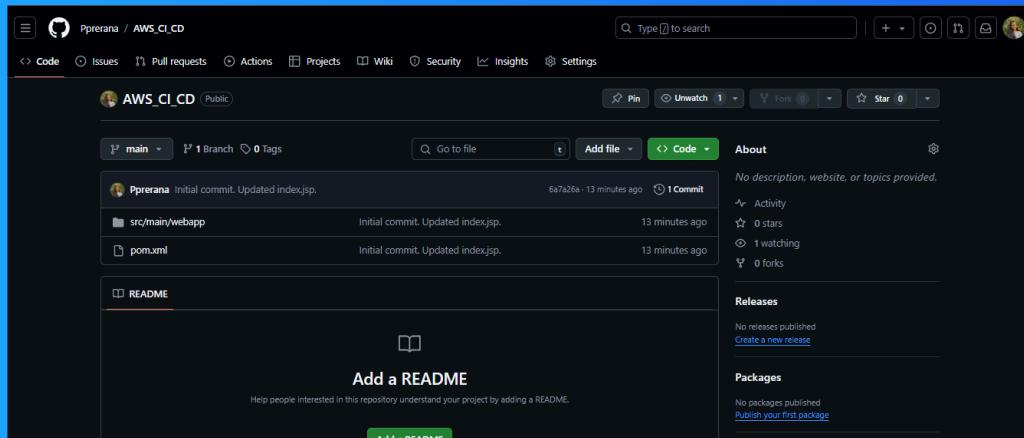
The third command I ran was `git push origin main`. This command pushes the committed changes from the local repository to the remote repository, specifically to the main branch. It ensures that the latest local changes are reflected in the remote code.



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# Creating a Repository



# Git in action

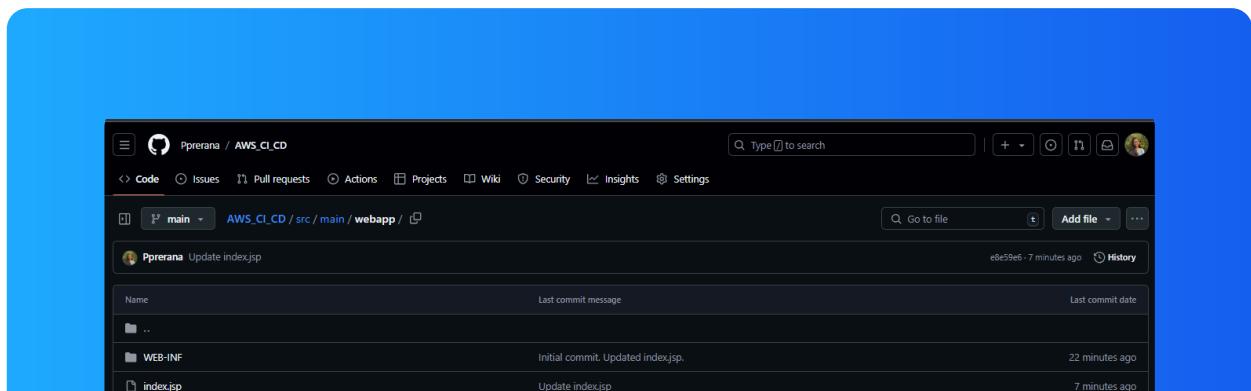
## Making changes in Cloud9

I wanted to see Git working in action, so I updated the `index.html` file in Cloud9. I made changes by adding a new section to the page, modifying some text, and updating the styles to reflect the new content, preparing it for version control and push.

## The importance of committing changes

I tried seeing these changes in my CodeCommit repository, but this didn't work because I hadn't pushed the local commits yet. The changes were only saved locally and needed to be pushed using `git push` to update the remote repository in CodeCommit.

I finally saw the changes in my CodeCommit repository after running the `git push origin main` command. This pushed my local commits to the `main` branch in the remote repository, updating it with the changes I had made locally.





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