



Set up a Git Repo with AWS



Emmanuel Enalpe III

```
index.jsp x
src > main > webapp > index.jsp > html > body
    You 1 second ago | 1 author (You)
1  <html>
2
3  <body>
4
5  <h2>Hello <YOUR Emmanuel!>!</h2>
6
7  <p>This is my NextWork web application working!</p>
8
9  <p>Yo! If you see this line in CodeCommit, your latest changes are saved in the origin.</p>
10 <!--
11   You, now + Uncommitted changes
12 -->
13 </body>
14 </html>
```



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Introducing Today's Project!

What is AWS CodeCommit?

AWS CodeCommit is a fully managed source control service that hosts Git repositories. It's useful because it enables collaboration among developers, provides scalability, integrates seamlessly with other AWS services.

How I'm using CodeCommit in this project

I used AWS CodeCommit to host my project's Git repository. I created a new repository, cloned it to Cloud9, made changes to the code, and pushed those changes to CodeCommit, ensuring my work was version-controlled and easily accessible.

One thing I didn't expect...

One thing I didn't expect in this project was the complexity of managing Git branches and merges. It required more attention than I anticipated to ensure changes were integrated smoothly without conflicts.

This project took me...

This project took me about an hour to complete this project.



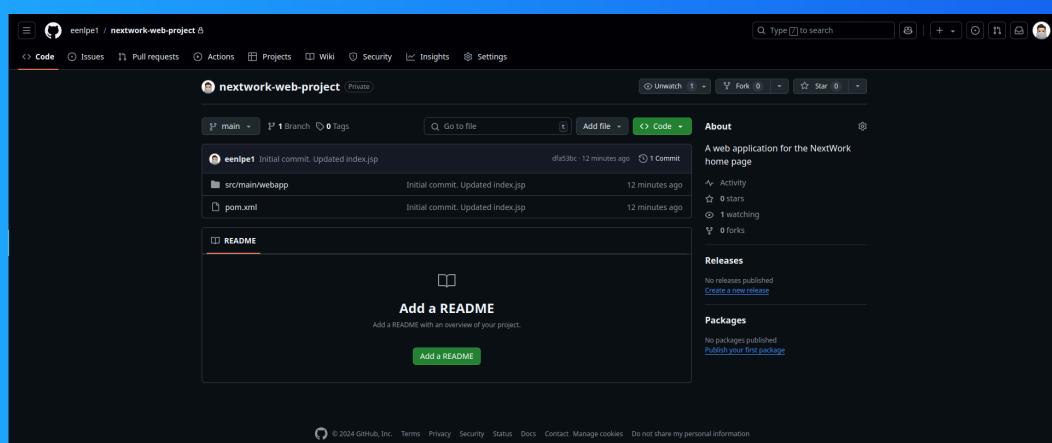
Create a Git repository

What is Git?

Git is a distributed version control system that helps track changes in files and coordinate work among multiple people. It allows users to manage project history, collaborate effectively, and revert to previous versions when necessary.

What is a Git repository?

A Git repository is a storage space for your project files and their revision history, managed by Git. It allows for version control, enabling collaboration, tracking changes, and reverting to previous versions as needed.





My first commit

I initialized a Git repo by running the command `git init` in the Cloud9 terminal, which set up the repository for version control.

I used three commands to push local changes to CodeCommit

The first command I ran was `git add .`, which stages all modified files in the current directory for the next commit. This prepares the changes to be included in the version history before pushing them to the repository.

The second command I ran was `git commit -m "Your message here"`. This command saves my changes to the local repository and allows me to add a message that describes what changes were made, providing context for future reference.

The third command I ran was `git push`. This command uploads my committed changes from the local repository to the remote repository on CodeCommit, ensuring that my updates are reflected in the origin.



Creating a Repository

 eenipe1	Initial commit. Updated index.jsp	dfa53bc · 10 minutes ago	 1 Commit
 src/main/webapp	Initial commit. Updated index.jsp	10 minutes ago	
 pom.xml	Initial commit. Updated index.jsp	10 minutes ago	

Git in action

Making changes in Cloud9

I wanted to see Git working in action, so I updated the `index.jsp` file in IDE. I modified the file to add a new sentence, saved the changes, and committed them using Git.

The importance of committing changes

I tried seeing these changes in my CodeCommit repository, but this didn't work because the changes weren't pushed from my local repository to the remote. You need to use `git push` to update the remote repository with your local changes.

I finally saw the changes in my CodeCommit repository after adding the updated files with `git add`, committing them with `git commit`, and pushing them to the origin using `git push`.

```
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You, 1 second ago | 1 author (You)
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5 <h2>Hello <YOUR_Ename>!
6
7 <p>This is my NextWork web application working!</p>
8
9 <p>Yo! If you see this line in CodeCommit, your latest changes are saved in the origin.</p>
10 You, now * Uncommitted changes
11 </body>
12
13 </html>
14
```



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