



Set up a Git Repo with AWS



sru anu

nextwork-web-project / src / main / webapp / index.jsp Info

Edit

```
1 <html>
2 <body>
3 <h2>Hello <Srujan SA>!</h2>
4 <p>This is my NextWork web application working!</p>
5 <p>Yo! If you see this line in CodeCommit, your latest changes are saved in the origin.</p>
6 </body>
7 </html>
8
```



Introducing Today's Project!

What is AWS CodeCommit?

AWS Cloud9 is a cloud-based IDE for writing, running, and debugging code. It offers collaboration, pre-configured tools, and AWS service integration.

How I'm using CodeCommit in this project

I used AWS CodeCommit to host my Git repository, enabling me to track changes, collaborate with my team, and securely store my code.

One thing I didn't expect...

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This project took me...

One thing I didn't expect in this project was being prompted for a username and password. It took me almost 2 hours to overcome this by creating a CLI with the access key, allowing me to bypass the password requirement in AWS security settings.

Create a Git repository

What is Git?

Git is an open-source version control system used to allow teams to collaborate on a single project or application simultaneously, managing changes, tracking versions, and merging contributions efficiently.

What is a Git repository?

A Git repository is a storage space where all the files, code, and history of changes in a project are tracked, enabling version control and collaboration among team members.

Repository settings

Repository name
 100 characters maximum. Other limits apply.

Description - optional
 1,000 characters maximum

Tags

Key	Value - optional
<input type="text" value="team"/>	<input type="text" value="devops"/>
<input type="button" value="Remove tag"/>	

► Additional configuration
AWS KMS key



My first commit

I initialized a Git repo by running the command `git init` in the terminal within my Cloud9 environment, which sets up a new repository in the current directory. After that, I used `git add .` to stage all files for the initial commit.

I used three commands to push local changes to CodeCommit

The first command I ran was `git add .`, which stages all the changes in my project directory, preparing them to be included in the next commit.

The second command I ran was `git commit -m "test"`, which creates a snapshot of the staged changes in my repository. The `-m` flag allows me to add a message that describes the changes I made, making it easier to track the project's history.

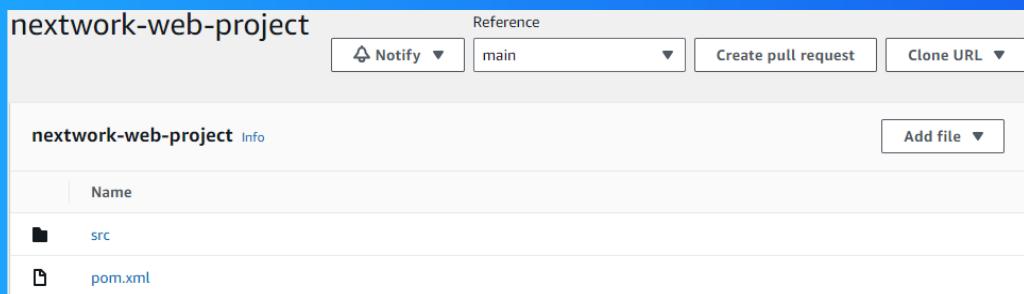
The third command I ran was `git push -u origin main`, which uploads my local repository changes to the remote repository. The `-u` flag sets the upstream tracking, meaning future pushes will default to this remote branch, making it easier to sync changes.



sru anu
NextWork Student

NextWork.org

Creating a Repository



Git in action

Making changes in Cloud9

I wanted to see Git working in action, so I updated the index file by adding a line `<p>This is my NextWork web application working!</p>`, which can be seen in the next image.

The importance of committing changes

I tried seeing these changes in my CodeCommit repository, but this didn't work because I hadn't yet pushed my local changes to the remote repository. The changes need to be committed and pushed for them to appear in CodeCommit.

I finally saw the changes in my CodeCommit repository after I ran the command `git push -u origin main`. This command pushed my committed changes from the local repository to the remote repository in CodeCommit.

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