



Set up a Git Repo with AWS



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The screenshot shows a web browser interface for AWS CodeCommit. At the top, there's a navigation bar with links: Developer Tools > CodeCommit > Repositories > nextwork-web-project. Below this is a prominent blue banner with white text: "AWS CodeCommit is no longer available to new customers. Existing customers of AWS CodeCommit can continue to use the service as normal." A "Learn more" link and a close button ("X") are also visible. The main content area is titled "nextwork-web-project". It features a "Reference" section with dropdown menus for "Notify" (set to "main"), "Create pull request", and "Clone URL". Below this is a code editor window showing the file "nextwork-web-project / src / main / webapp / index.jsp". The code content is as follows:

```
1 <html>
2 <body>
3 <h2>Hello World!</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
```



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Introducing Today's Project!

What is AWS CodeCommit?

AWS CodeCommit is a repository for storing every change made to the source code. It is helpful not just for storing code, but also for tracking changes, especially when made by many people.

How I'm using CodeCommit in this project

I used AWS CodeCommit to archive the web app's source code.

One thing I didn't expect...

I didn't expect that AWS also had their own repository, although it seems it might be deprecated eventually. So I set a backup Github repository to store this project's source code too.

This project took me...

30 mins.



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Create a Git repository

What is Git?

Git is a version control system for source code, where previous versions are archived.

What is a Git repository?

A Git repository is like a Google Drive folder that contains all the source files necessary for a coding project.

Create repository

Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.

Repository settings

Repository name

100 characters maximum. Other limits apply.

Description - *optional*

1,000 characters maximum

Tags

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

Add tag



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My first commit

I initialised a Git repo by running the command `git init -b main`

I used three commands to push local changes to CodeCommit

The first command, `git add .` means to add all modified files to the staging area, where any changes made are organized before committing to the project's history.

The second command, `git commit -m`, finalizes/saves the staged changes into the local repository, along with a commit message.

The third command, `git push -u origin main`, sends the saved changes from local to the remote upstream repository (origin) 's "main" branch.



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Creating a Repository

nextwork-web-project

Reference

Notify ▾ main Create pull request Clone URL ▾

nextwork-web-project Info Add file ▾

Name

src

pom.xml



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Git in action

Making changes in Cloud9

I wanted to see Git working in action, so I updated index.jsp with some new text and pushed the changes through git.

The importance of committing changes

I tried seeing these changes in my CodeCommit repository, but this didn't work because locally saved changes (in VSCode, or Cloud9) are only saved in the local repo, separate from the remote repo. We needed to push the changes to see it.

I finally saw the changes in my CodeCommit repository after staging, committing, and pushing the changes.

Developer Tools > CodeCommit > Repositories > nextwork-web-project

nextwork-web-project

Reference

Notify main Create pull request Clone URL

nextwork-web-project / src / main / webapp / index.jsp info Edit

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



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