



Set up a Git Repo with AWS



Shikha Gupta

The screenshot shows the AWS CodeCommit interface. On the left, there's a sidebar with 'Developer Tools' and 'CodeCommit' selected. Under 'CodeCommit', there are sections for 'Source', 'Getting started', 'Repositories', 'Code', 'Pull requests', 'Commits', 'Branches', 'Git tags', 'Settings', 'Approval rule templates', 'Artifacts', 'Build', 'Deploy', 'Pipeline', and 'Settings'. In the main area, the repository 'nextwork-web-project' is selected. Below it, the path 'nextwork-web-project / src / main / webapp / index.jsp' is shown. The content of the file is displayed in a code editor:

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

The browser tab bar shows multiple tabs related to AWS services like CloudShell, Feedback, and various AWS Cloud services.



Shikha Gupta
NextWork Student

[NextWork.org](https://www.nextwork.org)

Introducing Today's Project!

What is AWS CodeCommit?

AWS CodeCommit is a Git-based source control service that hosts code repositories securely. It's useful for managing code changes, collaborating with teams, and integrating seamlessly with other AWS services.

How I'm using CodeCommit in this project

I used AWS CodeCommit today to host and manage my Maven project code, allowing me to track changes and collaborate with my team.

One thing I didn't expect...

One thing I didn't expect was the ease of integrating AWS CodeCommit with AWS Cloud9, which made managing and syncing my code much simpler than anticipated.

This project took me...

The project took me about 30mins to complete, including setting up the AWS environment, creating the Maven project, and integrating with CodeCommit.



Shikha Gupta
NextWork Student

NextWork.org

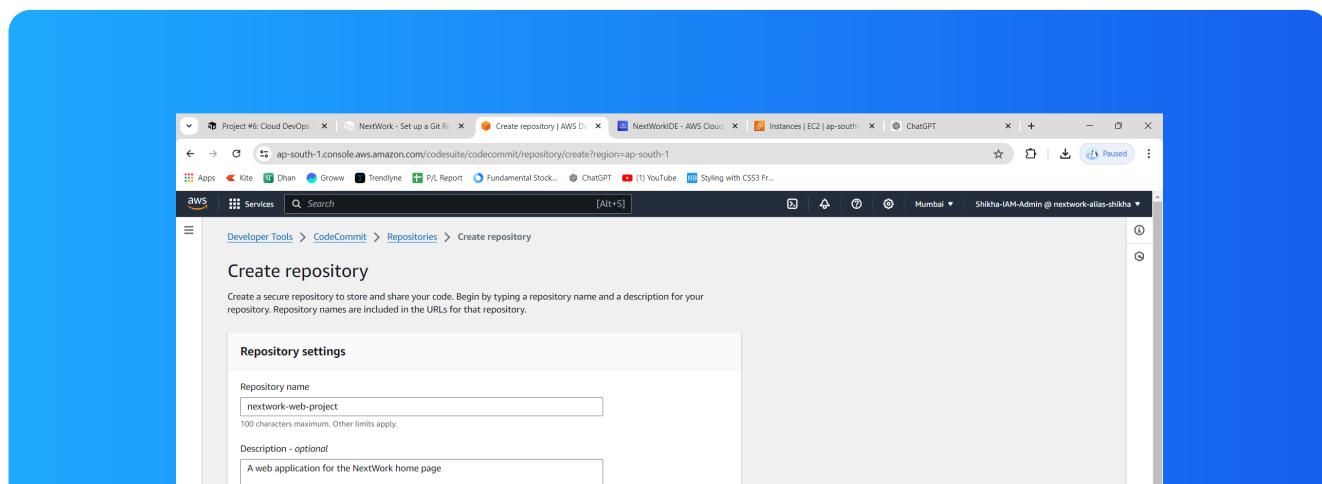
Create a Git repository

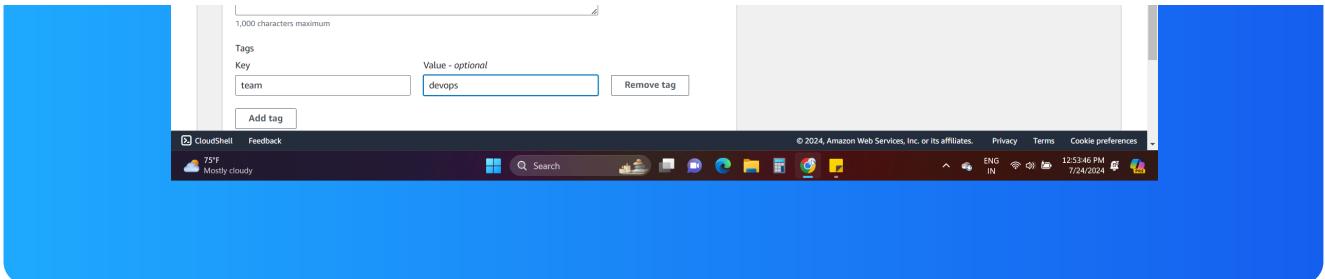
What is Git?

Git is a version control system - meaning it helps developers track changes in their code.

What is a Git repository?

A Git repository is a storage location for managing and tracking changes to code. It records the history of changes, allows for version control, and supports collaboration by enabling multiple users to work on the same project simultaneously.





Shikha Gupta
NextWork Student

NextWork.org

My first commit

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

I used three commands to push local changes to CodeCommit

The first command I ran was "git add ." This command adds all your changed files to a staging area, which is a place where changes you've made in your working directory are prepared and organized before committing them to your project history.

The second command I ran was git commit -m "Initial commit. Updated index.jsp." : commit essentially saves the changes you've made in your local repository.

The third command I ran was git push -u origin main



Shikha Gupta
NextWork Student

NextWork.org

Creating a Repository

The screenshot shows the AWS CodeCommit interface. The left sidebar has a tree view with 'Code' selected, showing 'Source', 'Getting started', 'Repositories', 'Code' (selected), 'Pull requests', 'Commits', 'Branches', 'Git tags', 'Settings', 'Approval rule templates', 'Artifacts', 'Build', 'Deploy', 'Pipeline', and 'Settings'. The main content area shows the 'nextwork-web-project' repository. At the top, there's a 'Reference' dropdown set to 'main', a 'Create pull request' button, and a 'Clone URL' button. Below that is a 'nextwork-web-project' info panel with a 'Name' field containing 'src' and a 'pom.xml' file listed. The bottom of the screen shows the Windows taskbar with various icons and the system tray.



Shikha Gupta
NextWork Student

[NextWork.org](https://www.nextwork.org)

Git in action

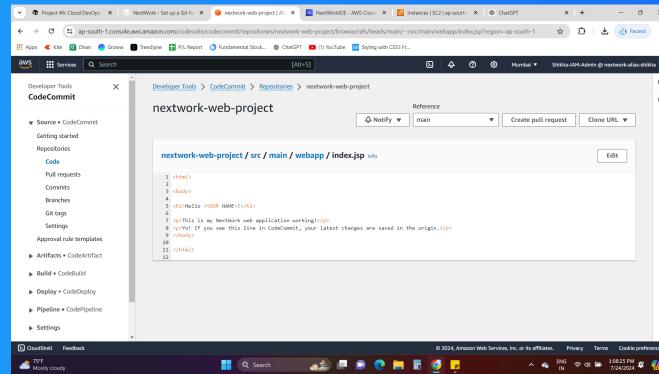
Making changes in Cloud9

I wanted to see Git working in action, so I updated index.jsp file and added p tag in that file.

The importance of committing changes

I tried seeing these changes in my CodeCommit repository, but this didn't work because I hadn't yet committed and pushed the updates from my local Git repository to the remote CodeCommit repository.

I finally saw the changes in my CodeCommit repository after i pushed my changes by pushing the code.



The screenshot shows the AWS Cloud9 IDE interface. The left sidebar has a tree view with 'Source + CodeCommit' selected, showing 'Getting started', 'Repositories', 'Code', 'Pull requests', 'Commits', 'Branches', 'Git tags', 'Settings', 'Approval rule templates', 'Artifacts + CodeArtifact', 'Builds + CodeBuild', 'Deploy + CodeDeploy', 'Pipeline + CodePipeline', and 'Settings'. The main area is titled 'nextwork-web-project' and shows the file 'nextwork-web-project / src / main / webapp / index.jsp' with the following code:

```
1 <html>
2   <body>
3     <h1>Hello, NextWork!</h1>
4     <p>This is my NextWork web application working!</p>
5     <p><a href="#">Go back</a></p>
6   </body>
7 </html>
```



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