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Set up a Git Repo with CodeCommit

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Introducing AWS CodeCommit!

What it does & how it’s useful

AWS CodeCommit is a service that helps you host Git repositories securely in the cloud. Developers and teams use AWS CodeCommit because it is a cloud Git repository that lets multiple developers work together online by updating the repository while still being able to work on their local computers simultaneously.

How I’m using it in today’s project

I’m using AWS CodeCommit in this project to to save a repository of my code from my AWS Cloud9 environment.

This project took me...

It took me about 30 minutes to complete this project. Documentation took me 30 minutes as well, making a total of 1 hour.

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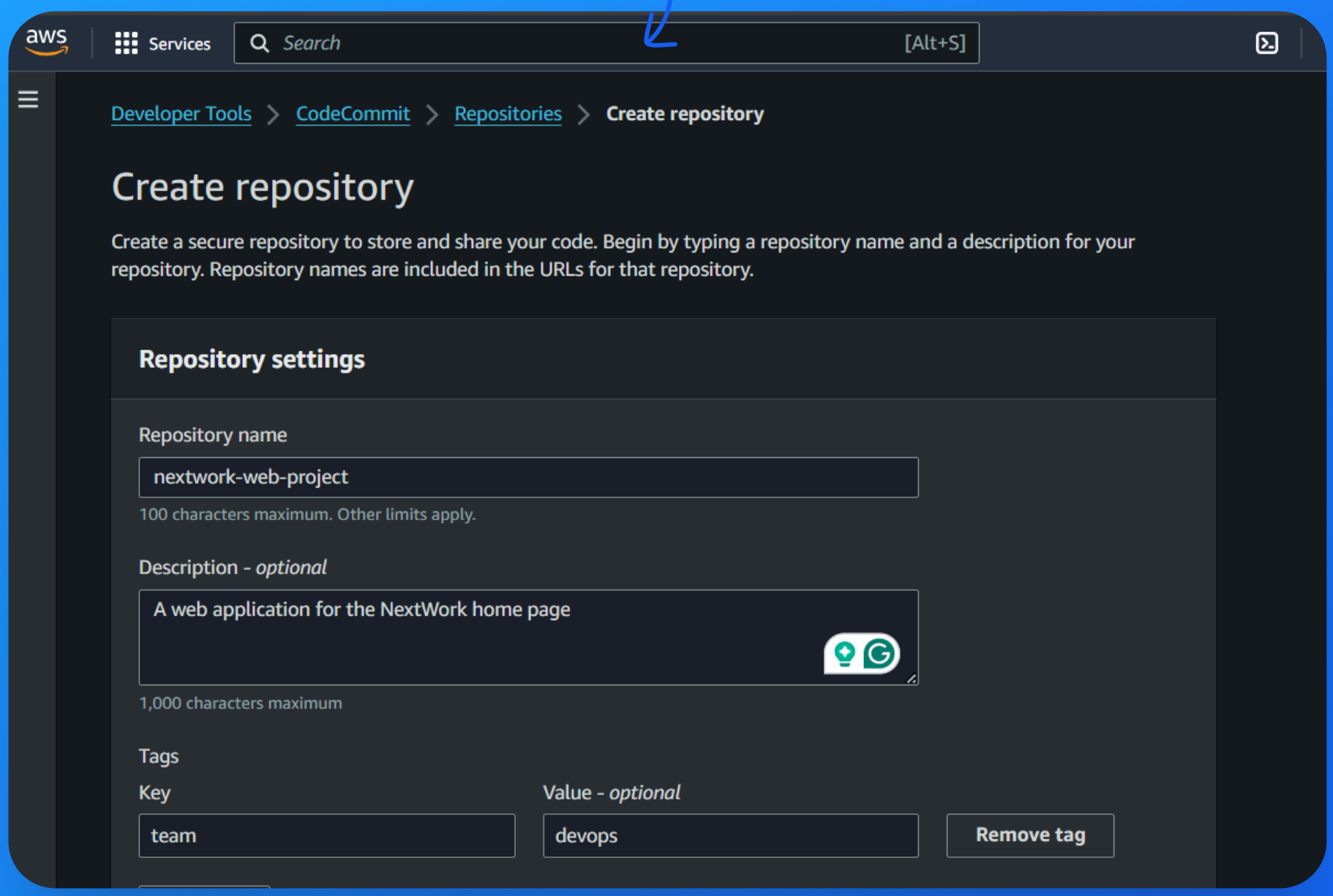
Create a Git repository

- Git is a version control and cod management system, that helps developers with tracking their changes and collaboration on code together

- A Git repository is basically a folder that contains all of an application, or project files in one place.

- To create a Git repository in the cloud, I used AWS CodeCommit.

My setup page for a CodeCommit repo

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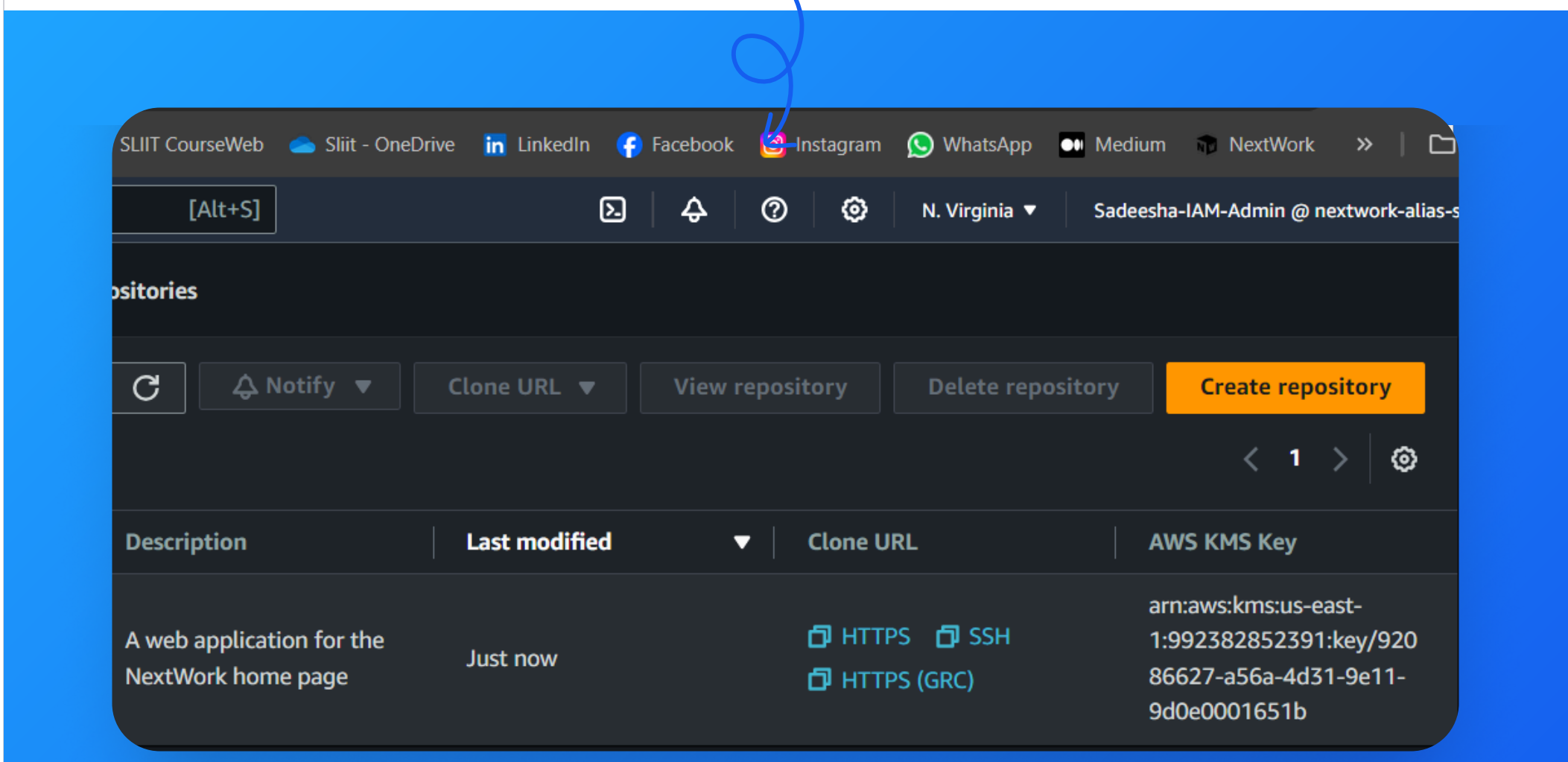
My first commit

- I initialised a Git repo in my web application by running the command git init -b main.

- To commit and push my code, I will have to run three different commands in order:
  - git add Places the files that I have created into a staging area i.e. preparing them to be saved.
  - git commit is basically pushing the save button that confirms my changes.
  - git push uploads and updates my changes to my remote origin i.e. the come commit repository I set up. Basically send my code upstream.

Files I committed showing up in my CodeCommit repo!



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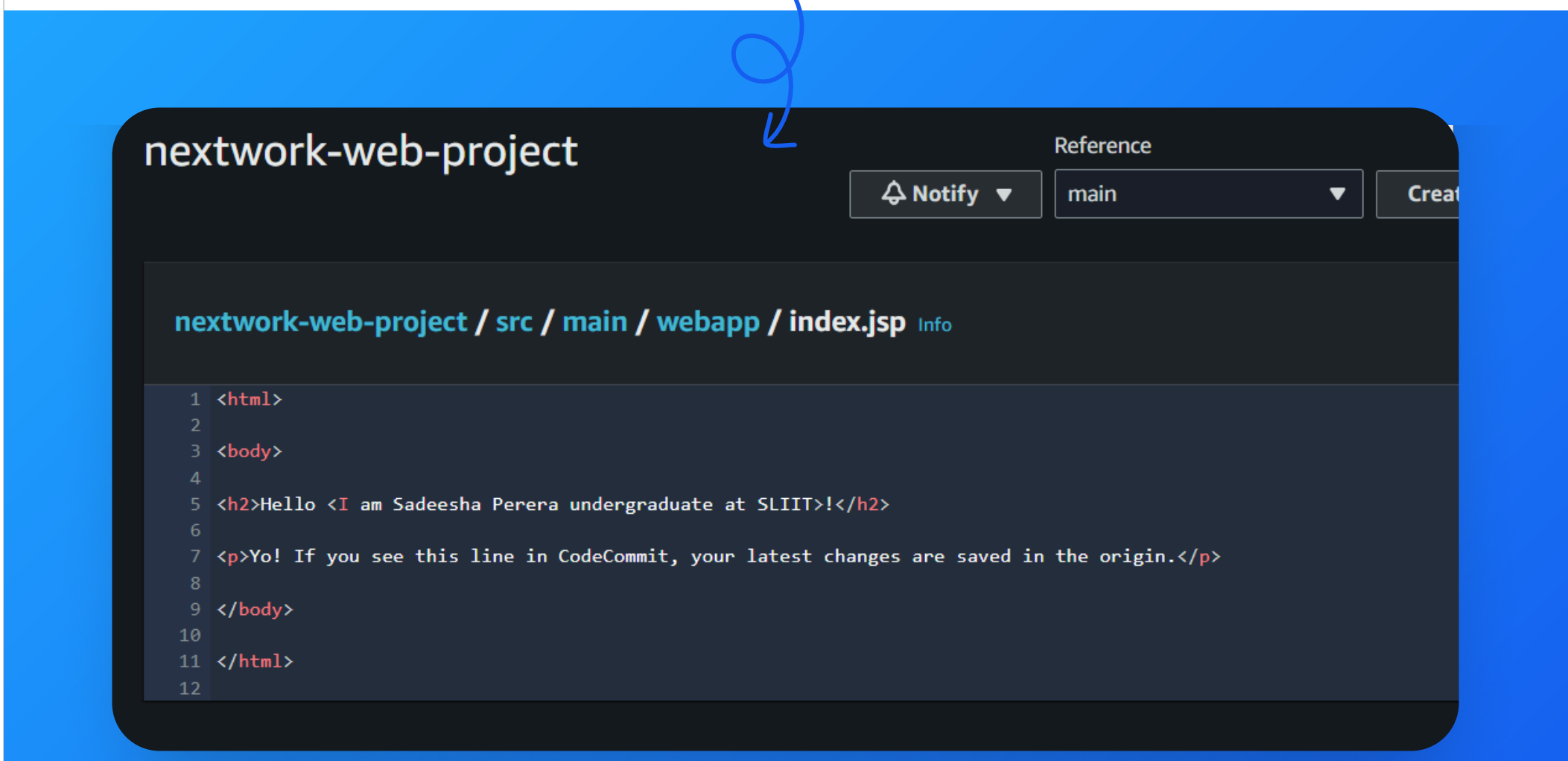
Git in action

- I wanted to see Git working in action, so I updated my index.jsp file by adding two new lines.

- Then I tried seeing these changes in my CodeCommit repository, but this didn't work because I had only saved these in my local repository without pushing the changes upstream.

- I finally saw the changes in my CodeCommit repository after running the same three Git commands in my Cloud9 terminal:
  git add .
  git commit
  git push

My updated index.jsp file showing up in CodeCommit!

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My key learnings

1. Git is a DevOps tool used for source code management. It is a free and open-source version control system used to handle small to very large projects efficiently. Git is used to tracking changes in the source code, enabling multiple developers to work together on

2. A local repository is a copy of the entire project's history and codebase that resides on a developer's machine.

3. To commit my code, I had to run three key commands:
 git add .
 git commit
 git push

4. One thing I didn’t expect was even after linking my codecommit to my Cloud9 environment via the terminal, I still had to run commands to then push changes to my CodeCommit to be saved.

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