MANAGING A CI/CD PIPELINE WITH AWS CODE FAMILY

PROJECT1/6

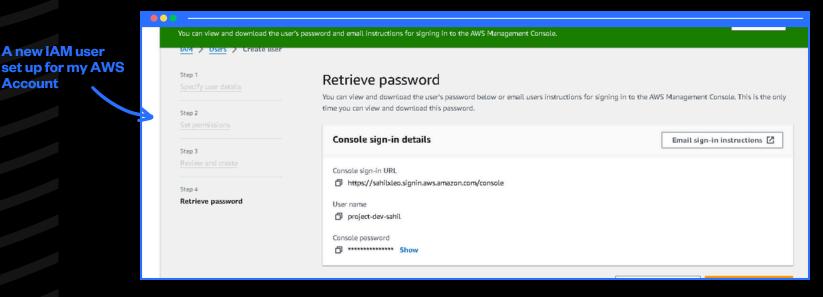
SETTING UP AWEB APP AND IDE IN THE CLOUD





SET UP AN IAM USER

- An IAM user is an entity in AWS Identity and Access Management (IAM) that represents an individual user or application with specific permissions in the AWS environment.
- It's important to create IAM users because, IAM users are essential for securely managing access to AWS resources.
- I created an IAM user with SuperUser rights.

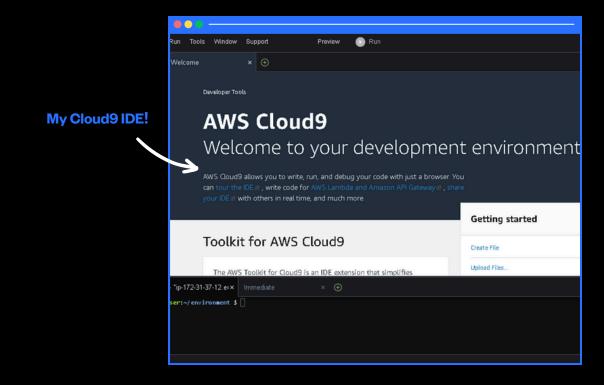




Account

LAUNCH A CLOUD9 IDE

- 02
- An IDE is used for writing, editing, debugging, and managing code in software development.
- I used AWS Cloud9 to launch an environment.
- Using Cloud9 meant the advantage of browser-based coding environments, enabling easy collaboration and access from any device with internet.





INSTALL MAVEN & JAVA

- Apache Maven is a build automation tool used primarily for Java projects to manage dependencies and build processes.
- Maven is required in this project because of it's automation capability
- Java is a popular programming language used to build different types of applications, from mobile apps to large enterprise systems.
- The Java version I'm using for this project is JDK 1.8.

I used terminal commands to install Maven and Java

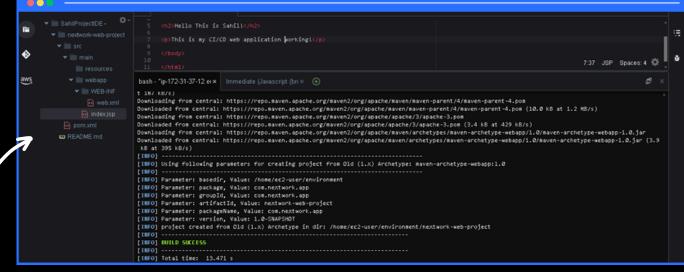
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                   : apache-commons-lang3-3.12.0-7.amzn2023.0.3.noarch
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                   : apache-commons-io-1:2.8.0-7.amzn2023.0.4.noarch
```





CREATE THE APPLICATION

- To create a simple Java web app, I ran the command mvn archetype:generate
- Once the web app was created, my IDE's file explorer had the project related resources and folders.
- To customise this web app's display, I updated the index.jp by double clicking and editing it.





Web App structure set up by Maven



MY KEY LEARNINGS

- It's recommended to use an IAM user instead of the root user for better security and access management.
- DEs are used for writing, editing, debugging, and managing code in software development.
- The service I used to set up an IDE was AWS Cloud9
 The benefit of using this service over traditional IDEs is the flexibility and accessibility.
- Apache Maven is used in my project to build automation tool used primarily for Java projects to manage dependencies and build processes.

FINAL THOUGHTS...

- This project took me 45 minute in a whole.
- Delete **EVERYTHING** at the end! Let's keep this project free:)
- In the next project of this DevOps series, we will use
 AWS CodeCommit to set up a repository for our web app's code.

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