Work on making a CI-CD (Continuous Integration and Continuous Delivery) the task to submit a spark word count program from S3 to the EMR cluster using AWS code pipeline.

DevOps

A set of practices intended to reduce the time between committing a change to a system and the change being placed into normal production, while ensuring high quality. is the combination of practices and tools designed to increase an organization's ability to deliver applications and services faster than traditional software development processes.

Continuous Integration and Delivery

Step 1 – Split the entire chunk of codes into segments

Step 2 – keep small segments of manageable code

Step 3 – integrate the segmented code, multiple times a day

Step 4 – Adopt a continuous integration methodology to coordinate with your team

we have a source code repository where the developers work continuously submit their pieces of the code repository. Such that a central place where the changes are constantly committed then we have a belt server where everything is compiled reviewed tested integrated and then packets as well finally started test final test goes to the minorities and then it goes to the production environment, where this process the building the Staging takes palace and the committee process it

automating this process becomes very important and if we will do it manually we will suffer a lot

AWS Codepipeline

AWS CodePipeline is a continuous delivery service you can use to model, visualize, and automate the steps required to release your software.
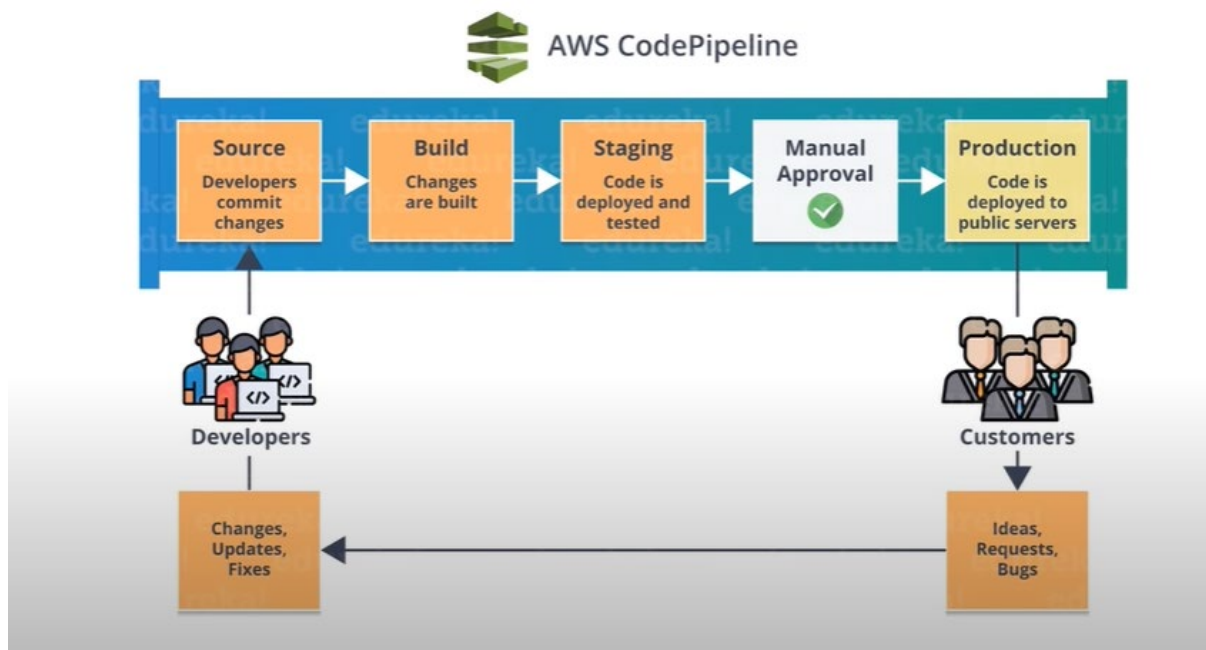
Its features -

Monitor your processes in real-time

Ensure Consistent Release Process

Speed up delivery while improving quality

View pipeline history details

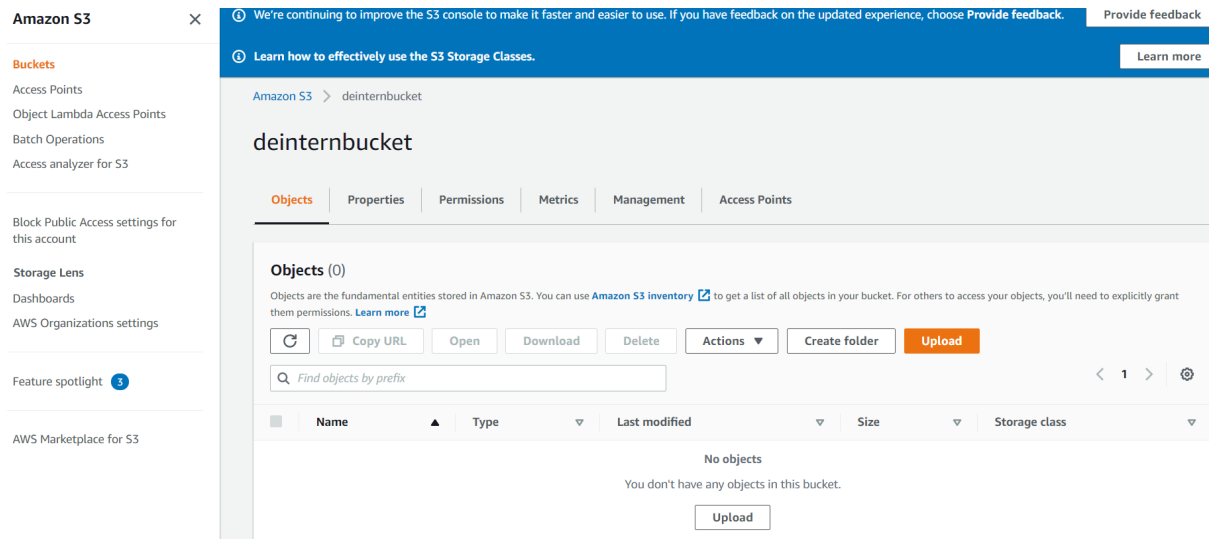The architecture of the code pipeline looks like this

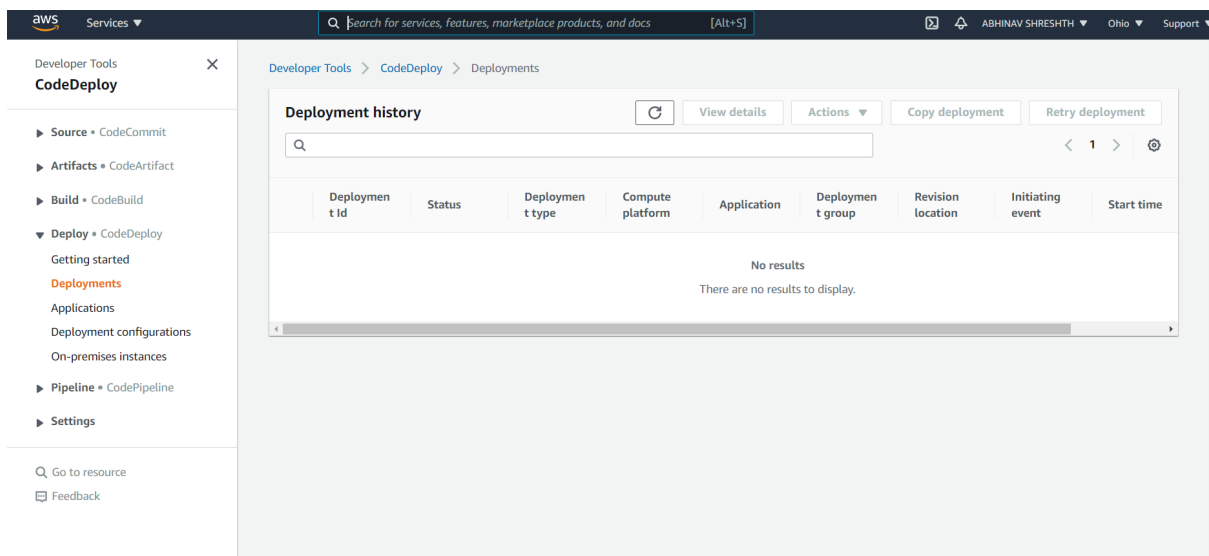Further I have signed up in amazon aws console.

Then I opened aws EMR and then as I don't know how to proceed further then I YouTube it to know how to procee

Then I opened and aws s3 and created bucket there

Also further I opened aws codedeploy

And I don't know how to create ci-cd in aws and how to perform on it. I have download Udemy lectures from torrent named

AWS DevOps : A CI/CD Masterclass 2021

Then I found out it is way too long

And till now I did only this