

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 place 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 -

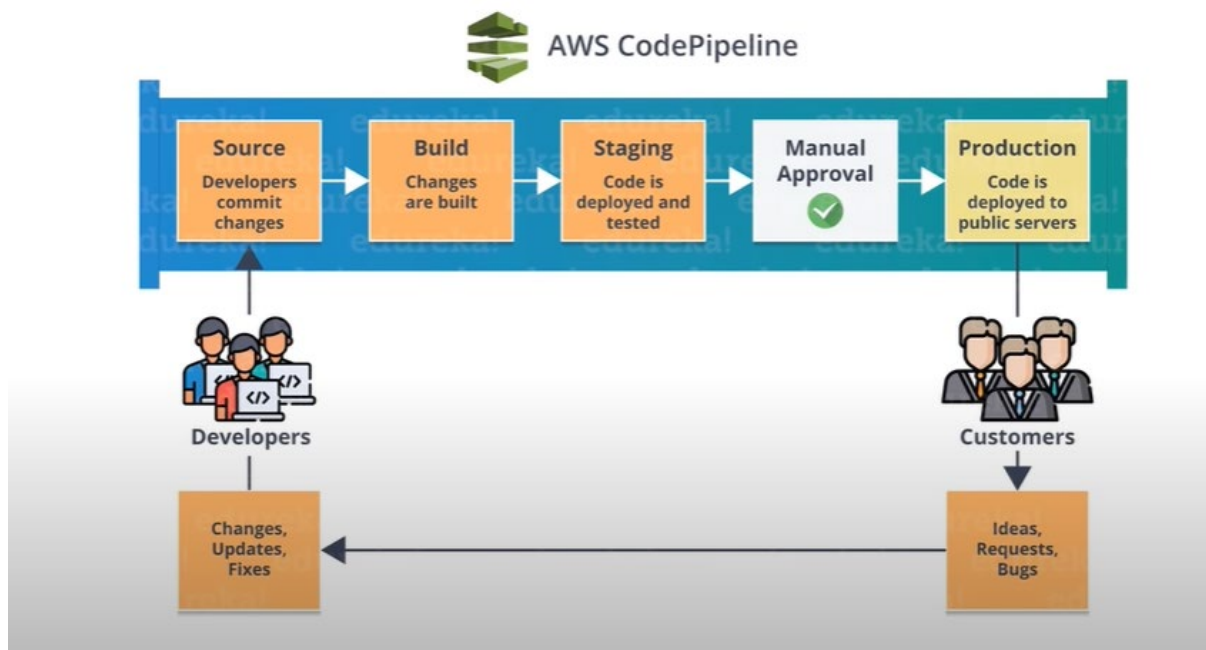
Monitor your processes in real-time

Ensure Consistent Release Process

Speed up delivery while improving quality

View pipeline history details

The architecture of the code pipeline looks like this

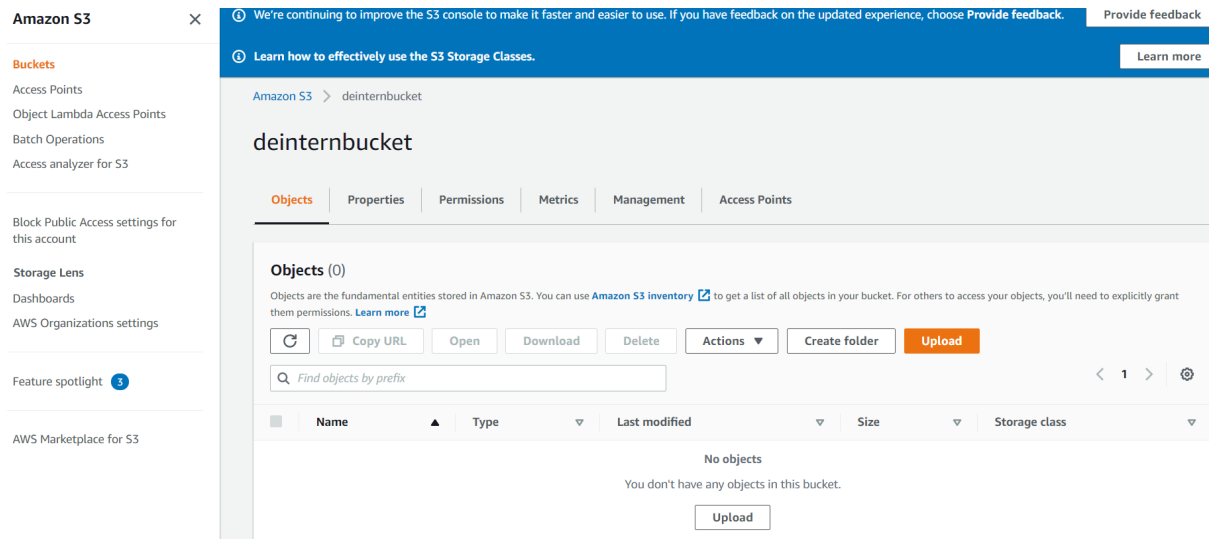


Further I have signed up in amazon aws console.

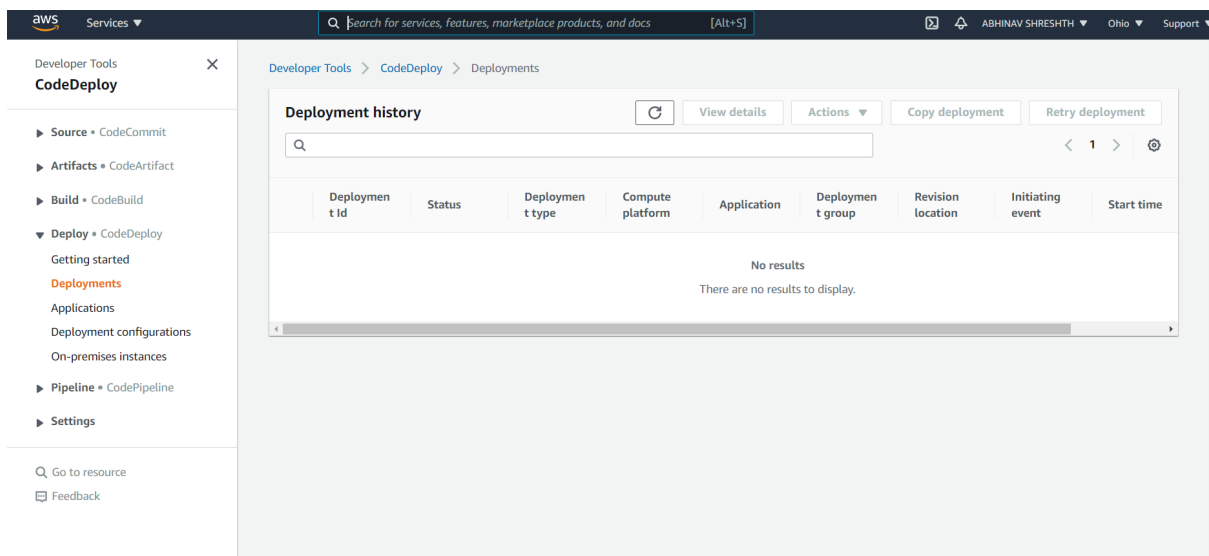
Then I opened aws EMR and then as I don't know how to proceed further then I YouTube it to know how to proceed

The screenshot shows the Amazon EMR console. On the left is a navigation menu with options like Amazon EMR, EMR Studio, EMR on EC2, Clusters, Notebooks, Git repositories, Security configurations, Block public access, VPC subnets, Events, EMR on EKS, Virtual clusters, Help, and What's new. The main content area is titled 'Welcome to Amazon Elastic MapReduce' and describes the service. It includes a 'Create cluster' button and a section 'How Elastic MapReduce Works' with three steps: Upload, Create, and Monitor. The right sidebar contains 'Additional Information' links such as EMR overview, FAQs, Pricing, Forum, Documentation, Developer Guide, API Reference, EMR on GitHub, and Help portal.

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

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Learn DevOps with AWS by creating Continuous Delivery Pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy

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- ✓ Learn Git fundamentals

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And till now I did only this