

Experiment No. 2

Aim: To Build Your Application using AWS Code Build and Deploy on S3/SEB Susing AWS Code Pipeline , deploy Sample Application on EC2 instance using AWS Code Deploy.

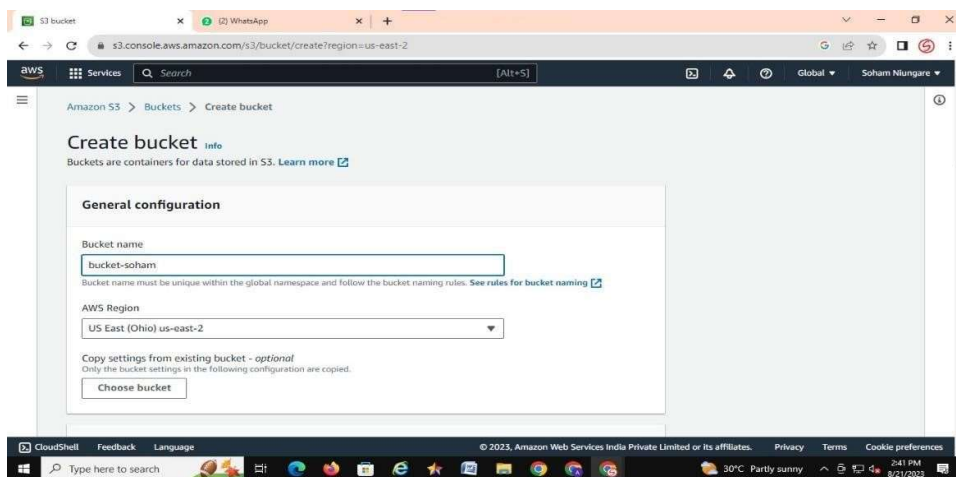
Implementation and Output:-

Steps to create an S3 bucket for your application:

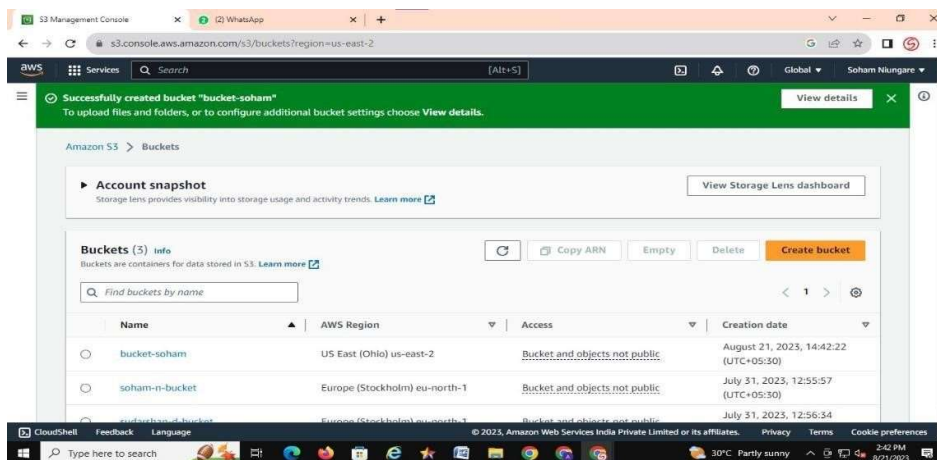
Step 1: Sign in to the AWS Management Console and open the Amazon S3 console at <https://console.aws.amazon.com/s3/>.

Choose Create bucket.

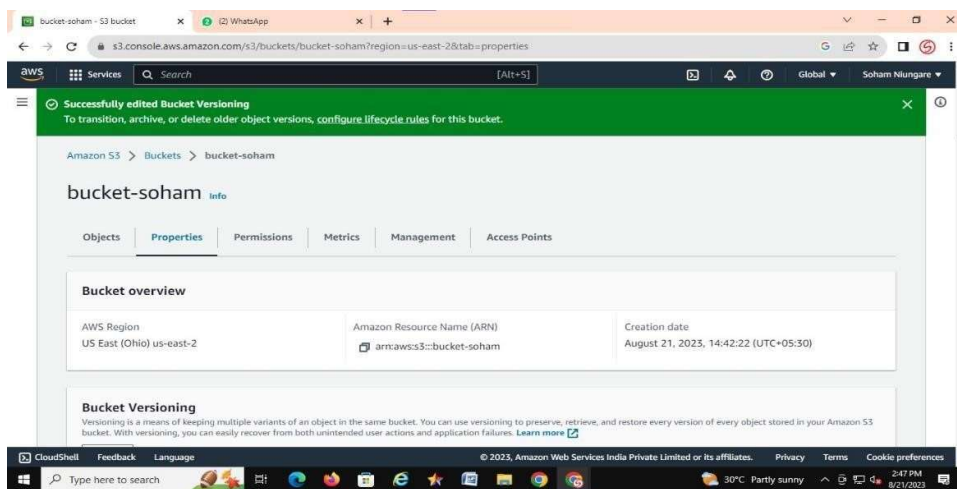
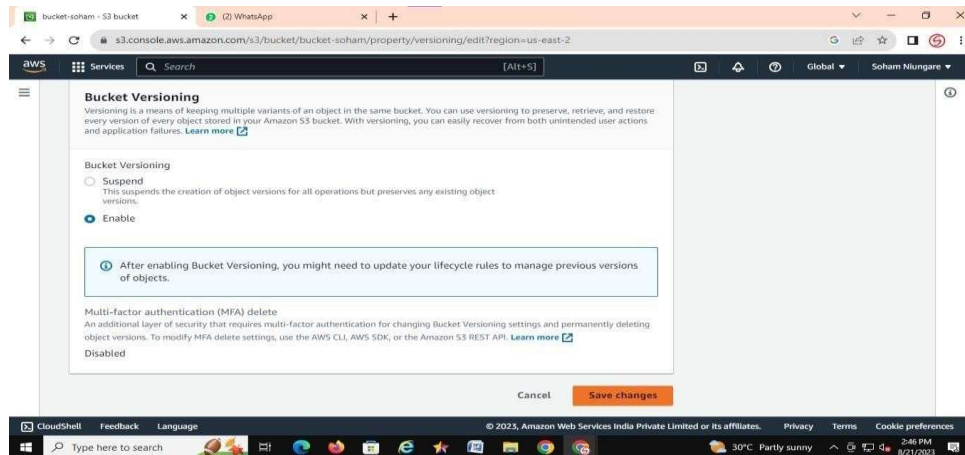
Step 2: In Bucket name, enter a name for your bucket.



Step 3: After the bucket is created, a success banner displays. Choose Go to bucket details.



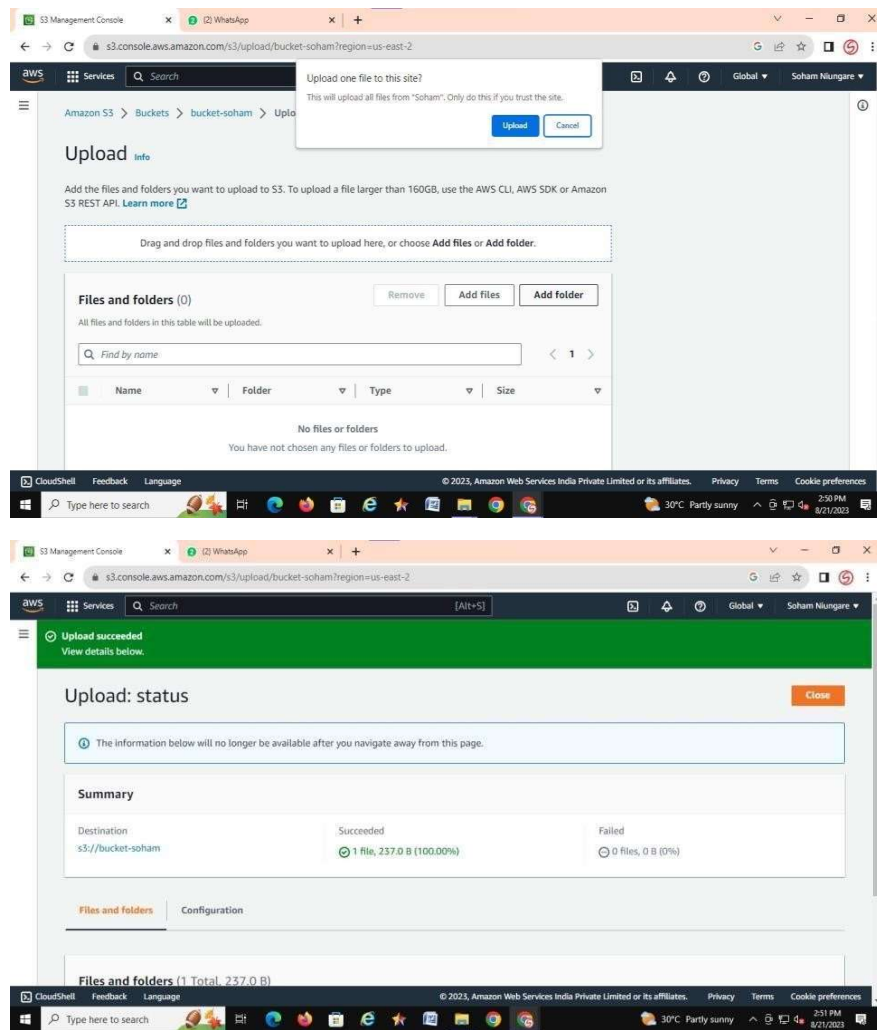
Step 4: On the Properties tab, choose Versioning. Choose Enable versioning, and then choose Save. When versioning is enabled, Amazon S3 saves every version of every object in the bucket.



Step6: On the Permissions tab, leave the defaults.

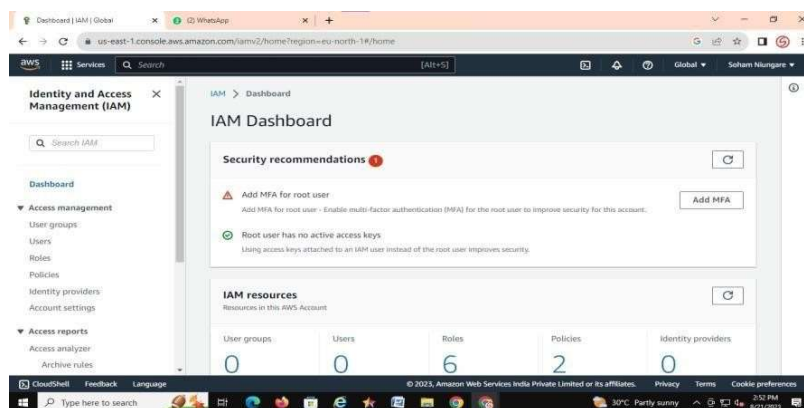
Step 7: Next, download a sample and save it into a folder or directory on your local

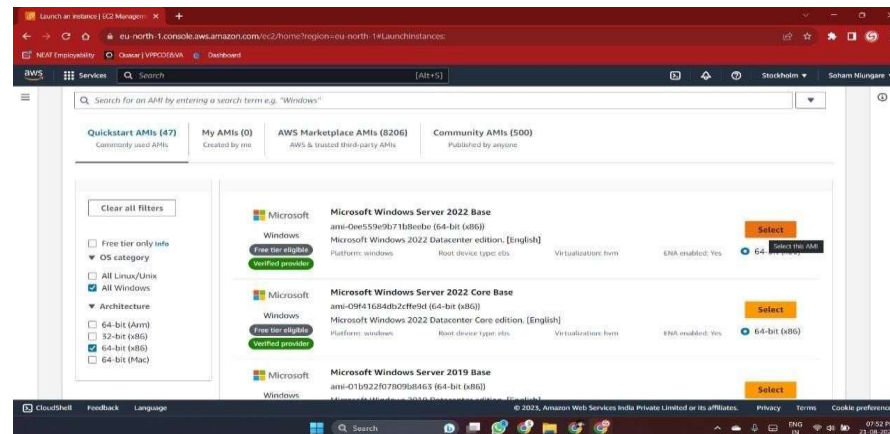
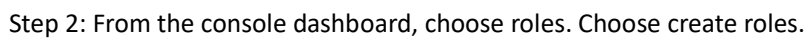
Step 8: In the Amazon S3 console, for your bucket, upload the file which you downloaded.



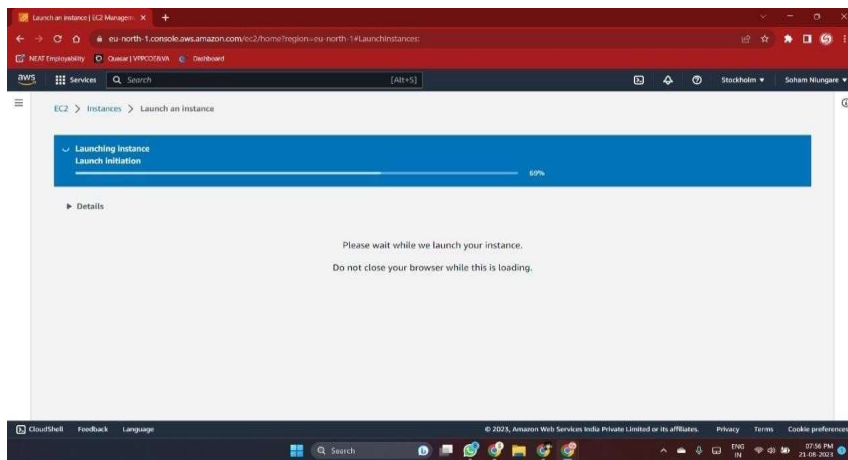
Steps to create amazon EC2 windows instances and install the Code Deploy agent:

Step1:Open the IAM console



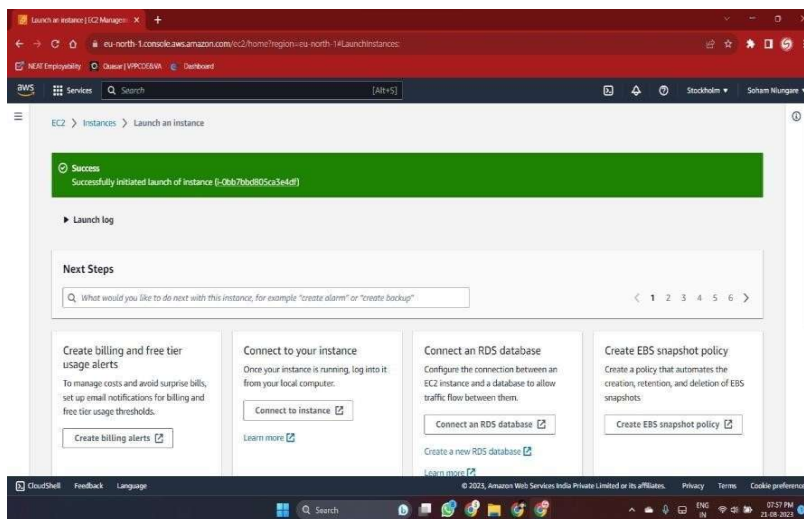


Step 3: Under Select type of trusted entity, select AWSservice. Under Choose a use case, select EC2, and then choose Next Permissions.

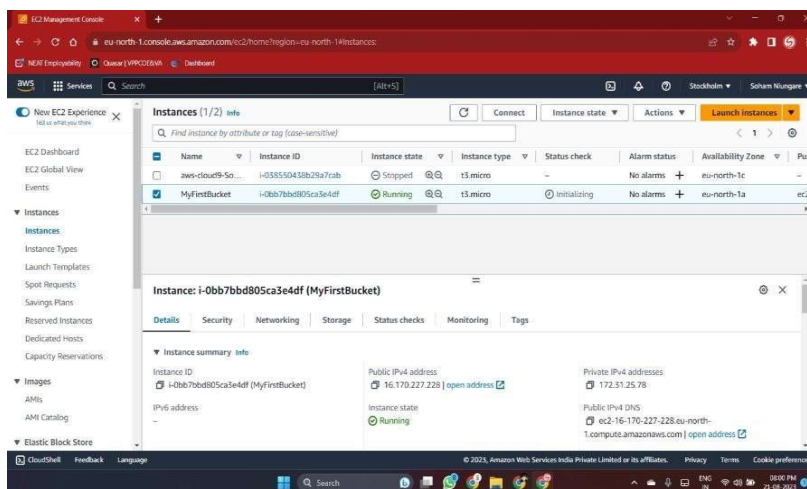


Step4: Search for and select the policy named Amazon EC2 Role for AWS Code Deploy, and then choose Next Tags.

Step 5: Choose Next: Review. Enter a name for the role and choose Create role.

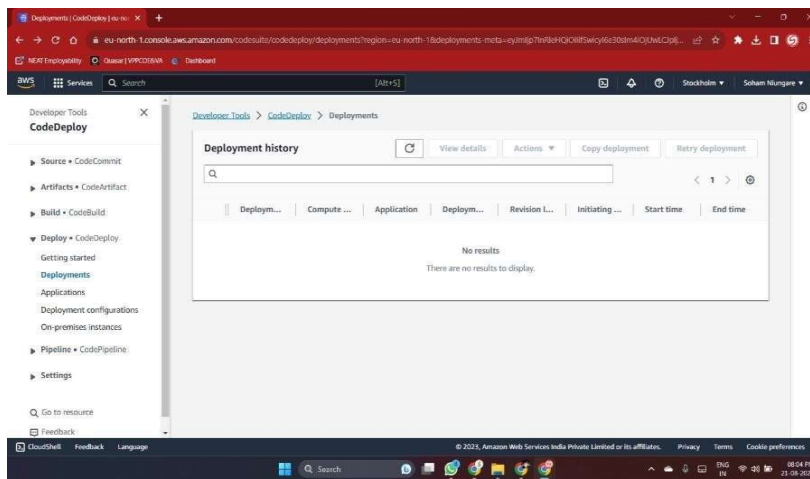


Step 6: It can take a few minutes for the instance to be ready for you to connect to it. Check that your instance has pass edits status checks. You can view this information in the Status Checks column.



Steps to create an application in Code Deploy:

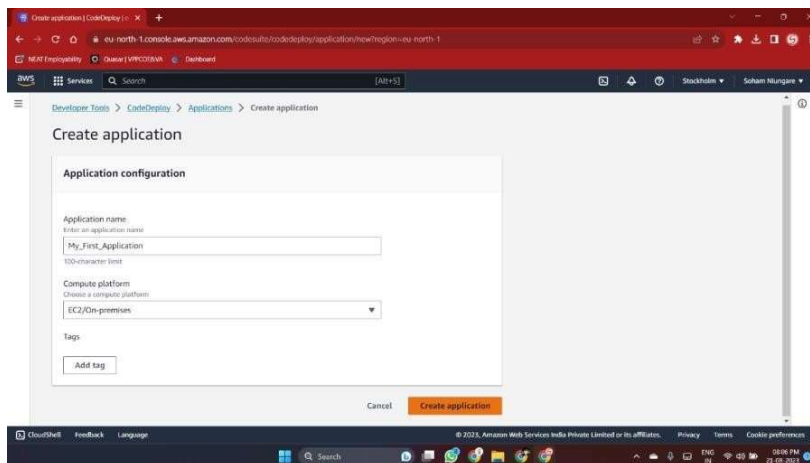
Step1: Open the Code Deploy console.



Step 2: If the Applications page does not appear, on the AWS Code Deploy menu, choose Applications.

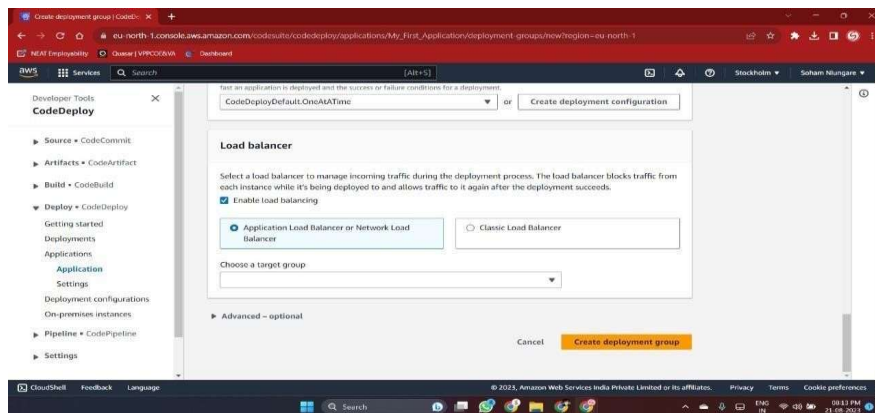
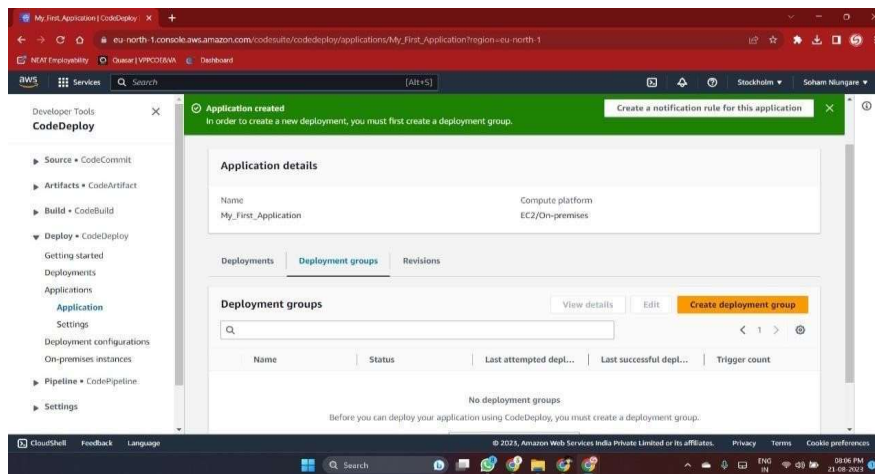
Step3: Choose Create application.

Step 4: In Application name, enter name for application. In Computer Platform, choose EC2/Onpremises. Choose Create application.

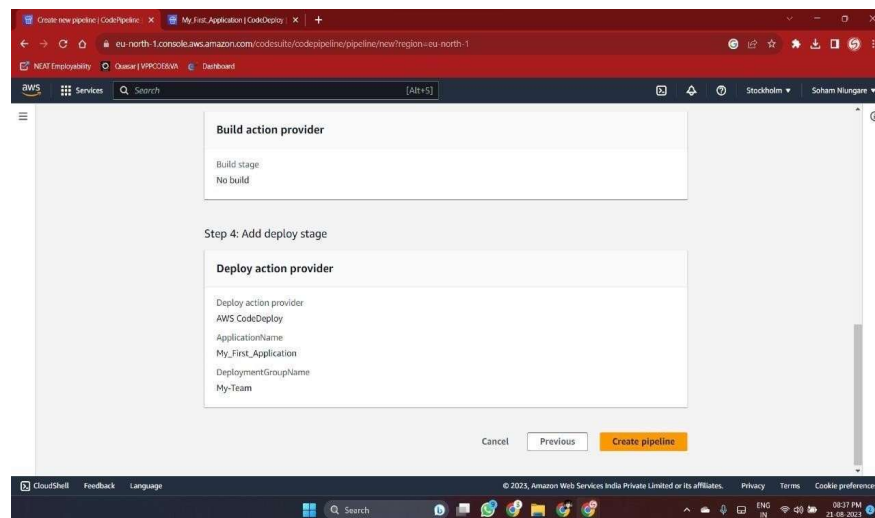


To create a deployment group in Code Deploy:

Step 1: On the page that displays your application, choose Create deployment group.



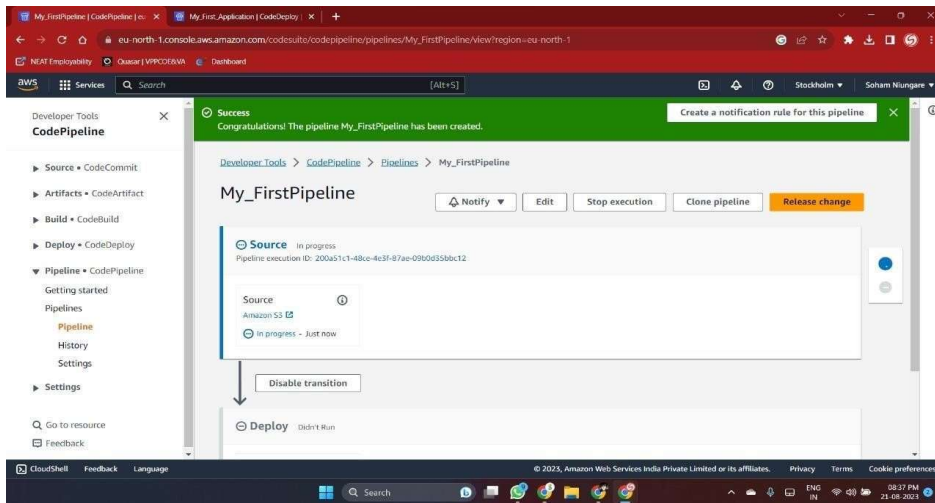
Step 2: In Deployment group name, enter group name. In Service Role, choose a service role that trusts AWS Code Deploy with, at minimum, the trust and permissions.



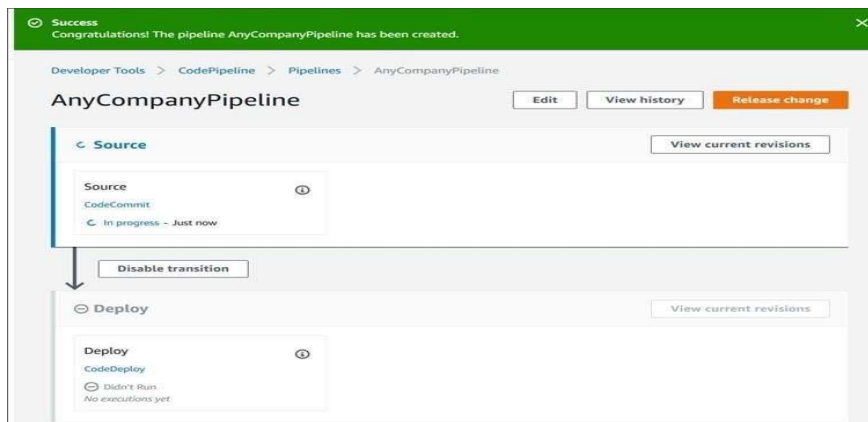
Steps to create your first pipeline in Code Pipeline:

Step 1: Sign in to the AWS Management Console and open the Code Pipeline console at <http://console.aws.amazon.com/codesuite/codpipeline/home>. On the Welcome page, Getting started page, or the Pipeline page, choose Create pipeline.

Step 2: The pipeline starts to run. You can view progress and success and failure messages as the Code Pipeline sample deploys a webpage to each of the Amazon EC2 instances in the Code Deploy deployment.



On the Description tab, in Public DNS, copy the address, and then paste it into the address bar of your web browser. View the index page for the sample application you uploaded to your S3 bucket.



Conclusion: Hence, we build our application using AWS Code Build and Deploy on s3 using AWS Code Pipe line, deploy Sample Application on EC2 instance using AWS code Deploy.