Project Code-Pipeline

AWS Code Pipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. Code Pipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define. This enables you to rapidly and reliably deliver features and updates. you can easily integrate AWS Code Pipeline with third-party services such as GitHub or with your own custom plugin. With AWS Code Pipeline, you only pay for what you use. There are no upfront fees of long-term commitments

This activity guide cover steps for:

1. Create a Code Commit repository
2. Add sample code to your Code Commit repository
3. Create an EC2 Linux instance and install the Code Deploy agent
4. To launch an instance
5. Create an application in Code Deploy
6. Create. your first pipeline in Code Pipeline
7. To verify that your pipeline ran successfully
8. Modify code code in your Code Commit repository
9. To verify your pipeline ran successfully
10. Clean up resources

a. Unzip the files from https://docs.aws.amazon.com/codepipeline/latest/userguide/samples/SampleApp_Linux.zipp into the local directory (for example, /tmp/MyDemoRepo or c:\temp\MyDemoRepo).
Be sure to place the files directly into your local repository. Do not include a SampleApp_Linux folder. On your local machine for example, your directory and file hierarchy should look like this:

b. Use git commands to upload the code in the local directory to public repository in Code commit

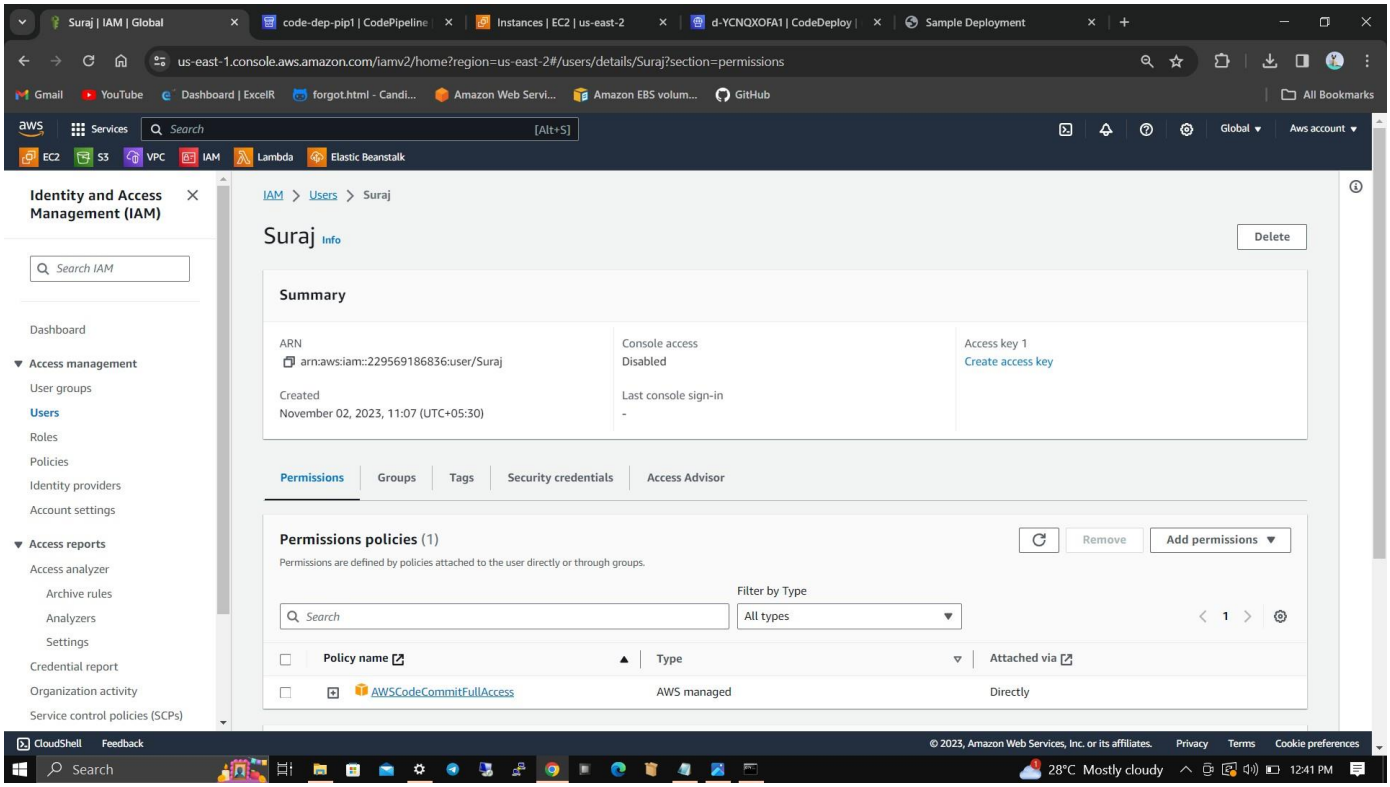
appspec.yml
index.html
LICENSE.txt
scripts
install dependencies
start server
stop server

c. Create and configure Code Deploy (Amazon EC2 instance)

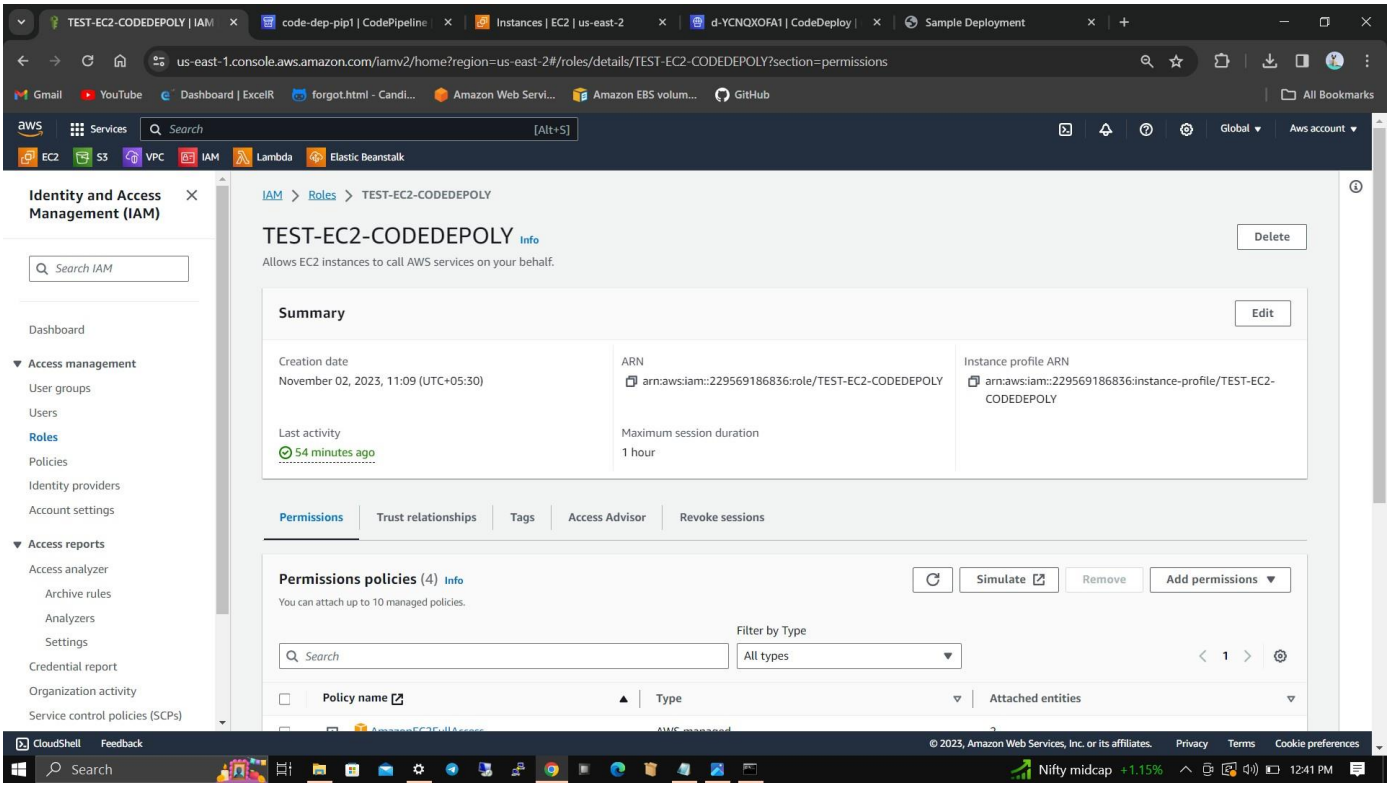
d. Create a pipeline using AWS Code Pipeline , AWS Code Commit and Code Deploy to deploy index.html to Amazon Linux ec2 instance

e. Check the o/p, by accessing the public id of the ec2 instance. Contents of the index.html must be displayed

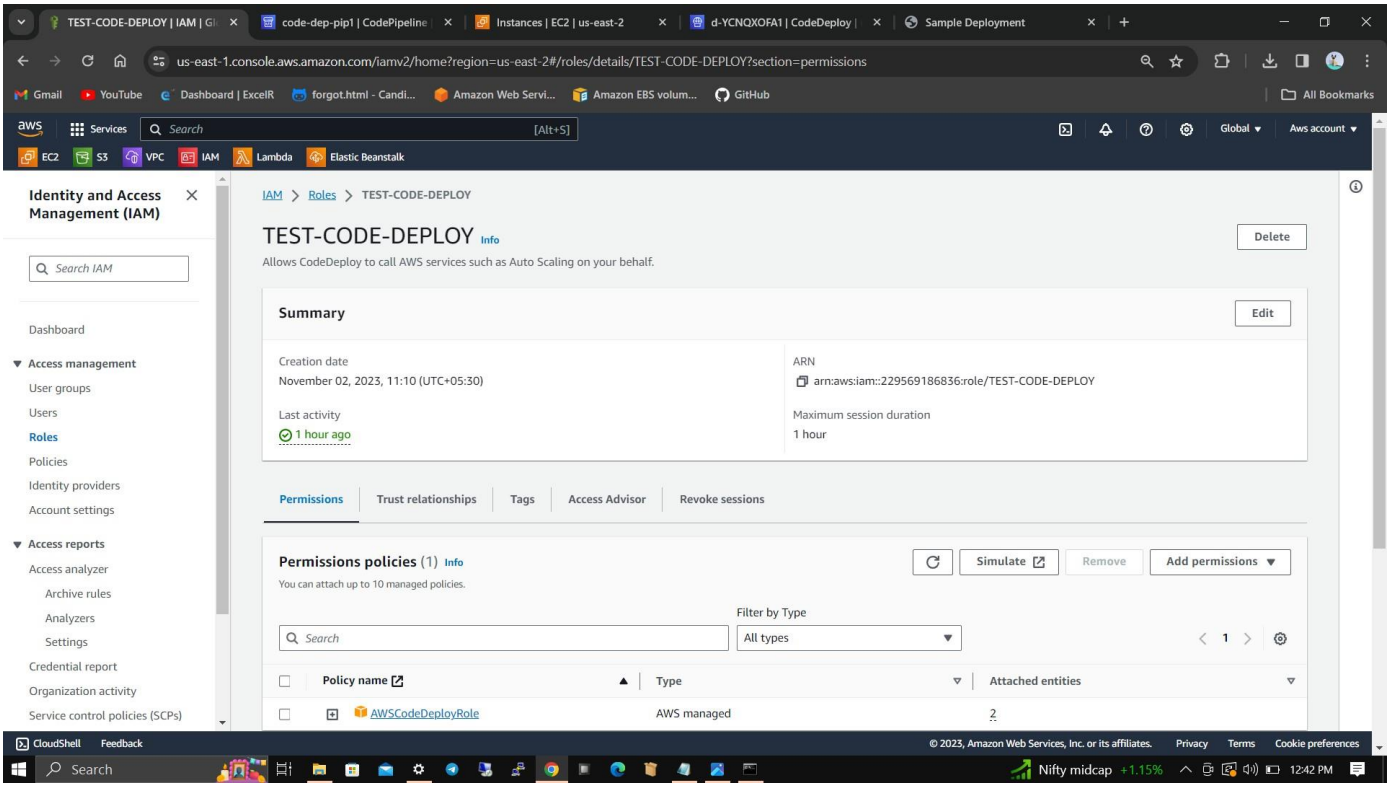
Step 1: Creating IAM User and Roles.



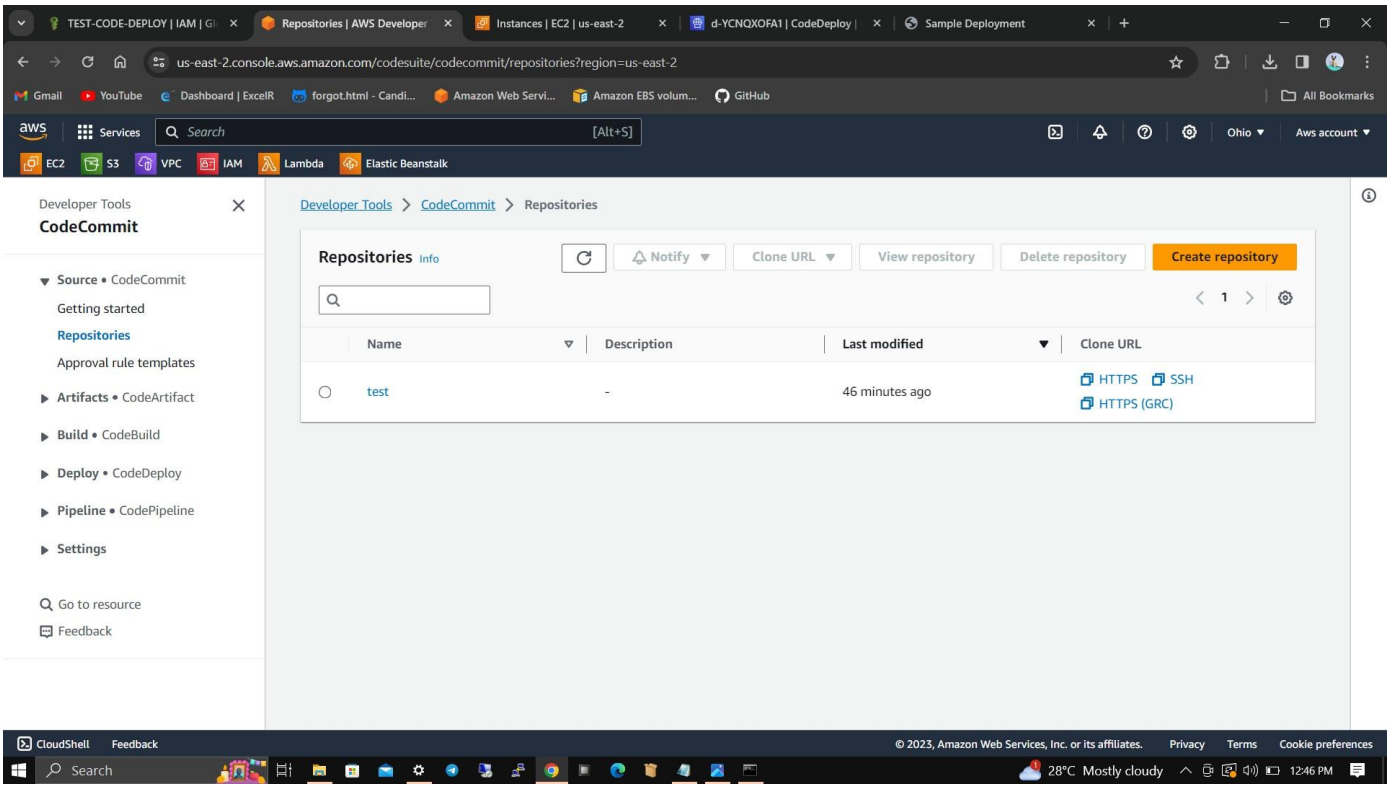
Created a role for EC2-CodeDeploy



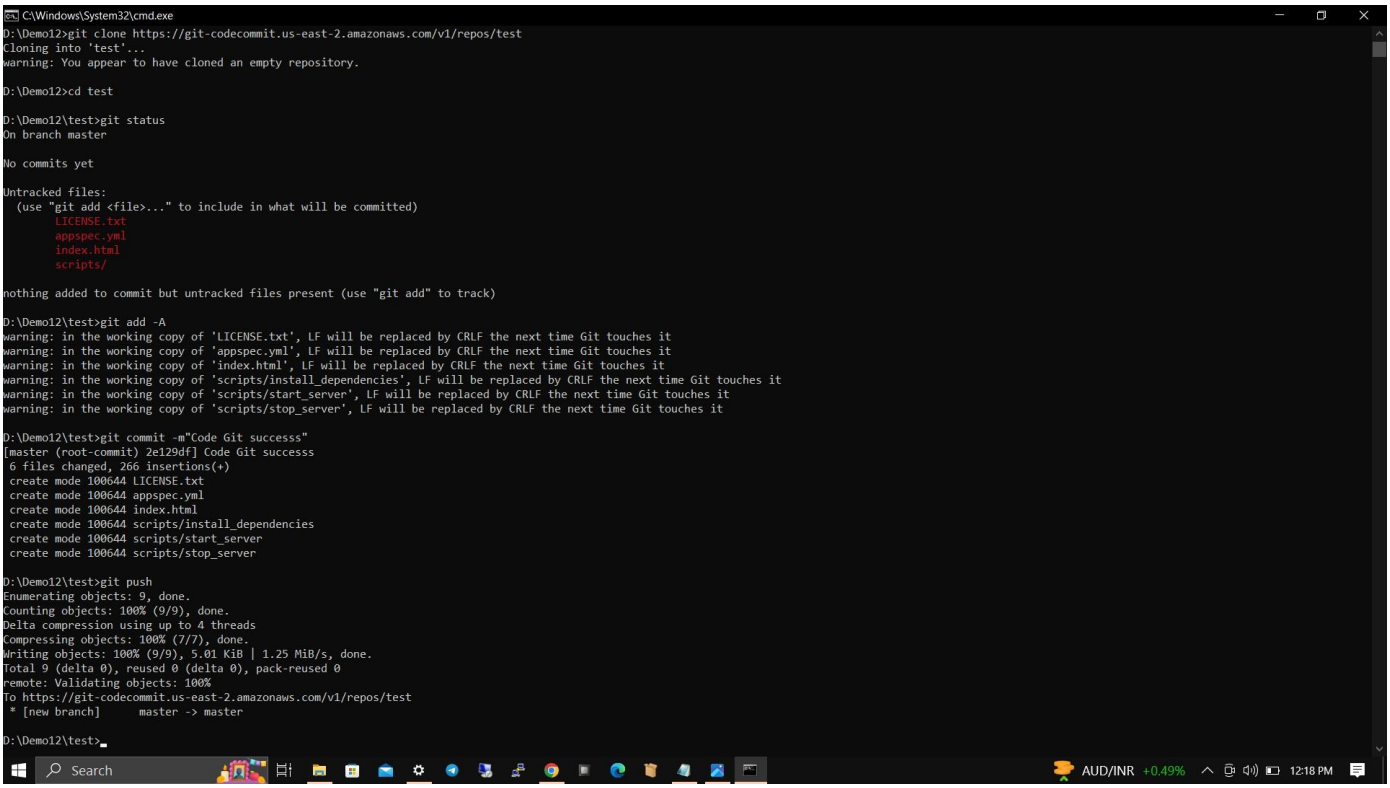
Created a role for Code-Deploy

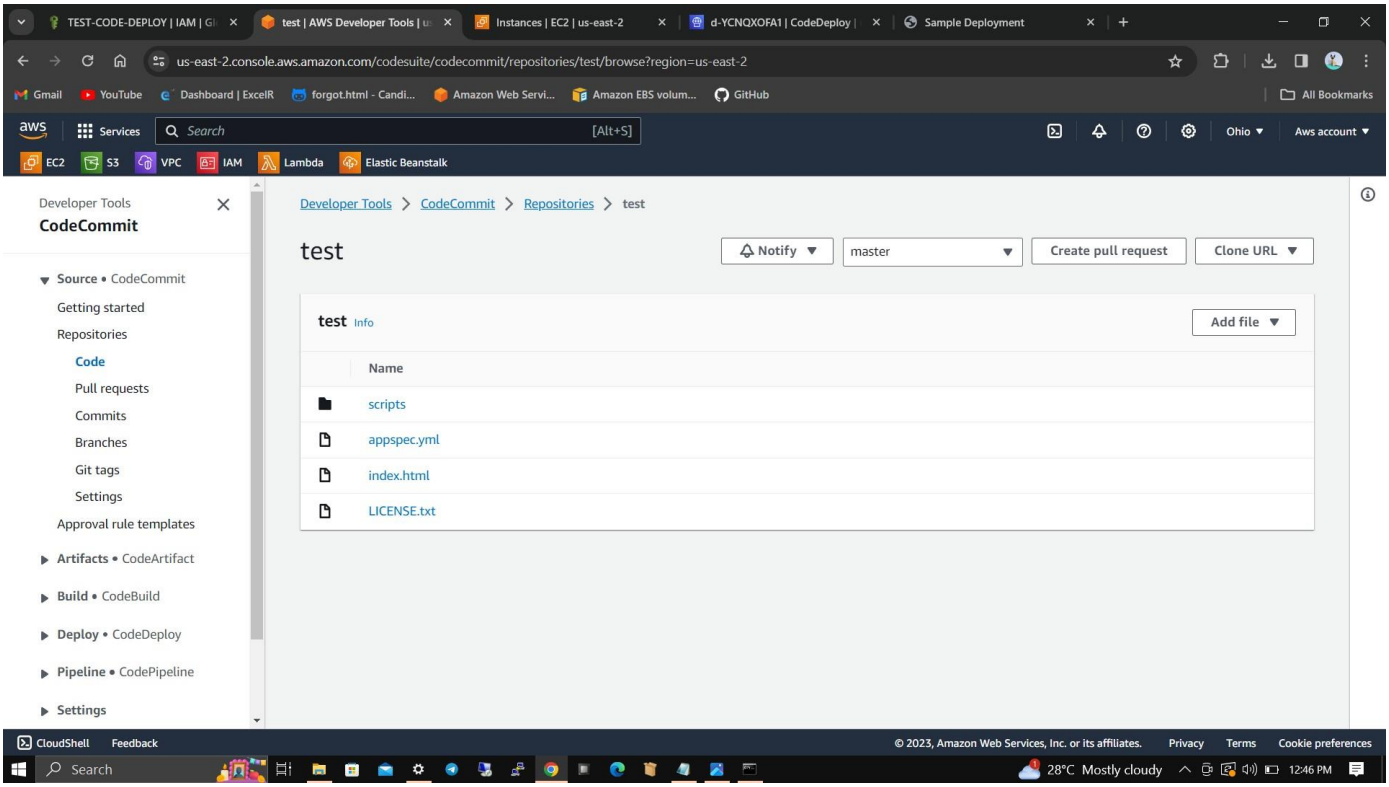


Step 2: Creating a Code-Commit Repository

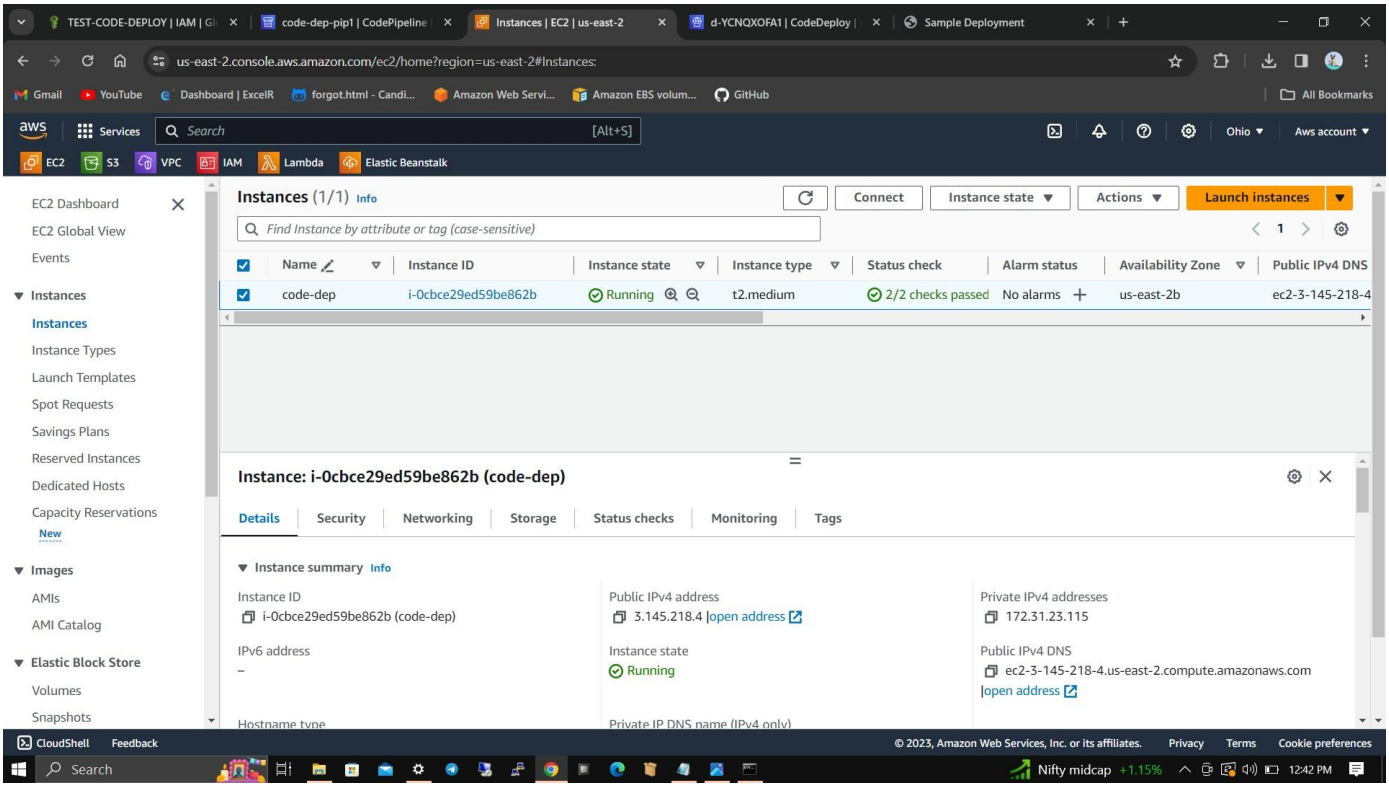


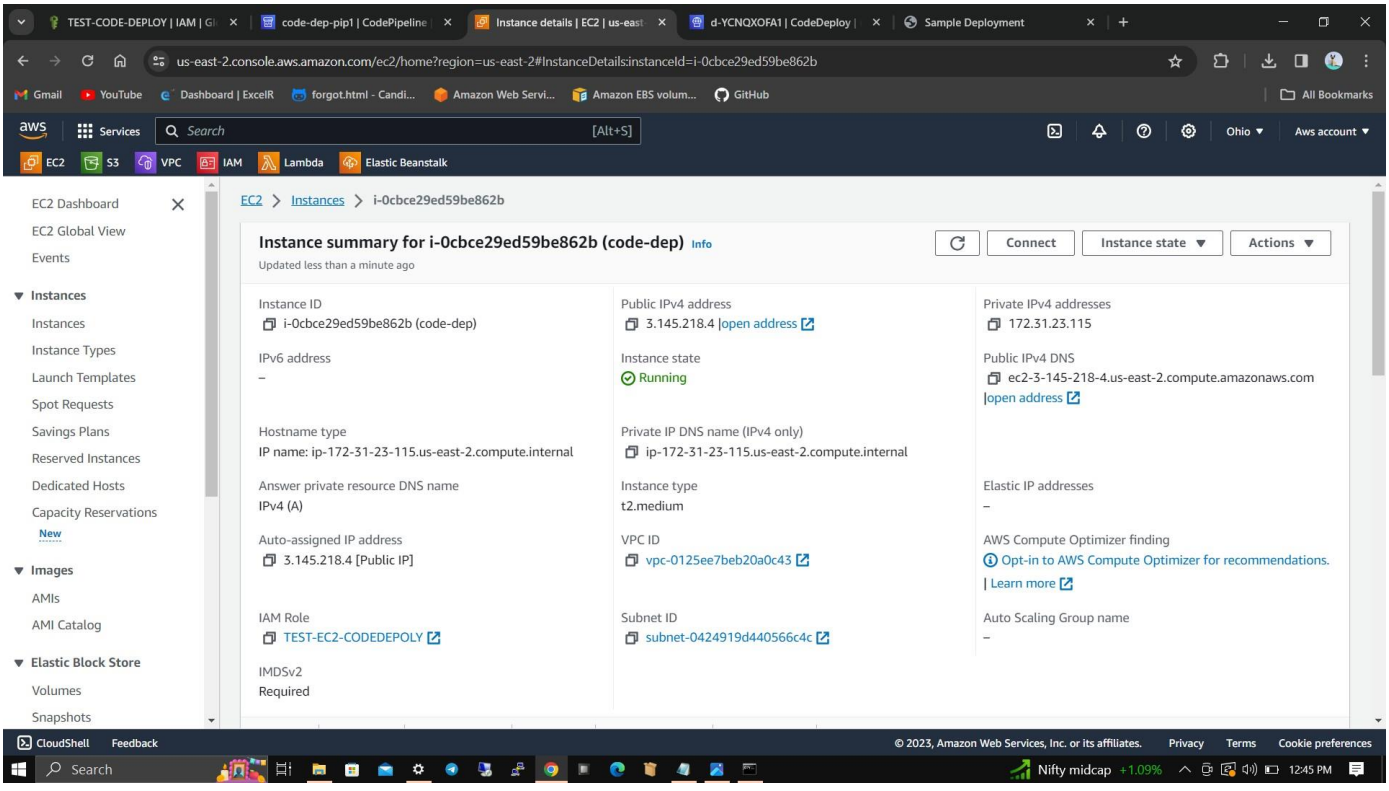
Step 3: Add sample code to your Code-Commit repository



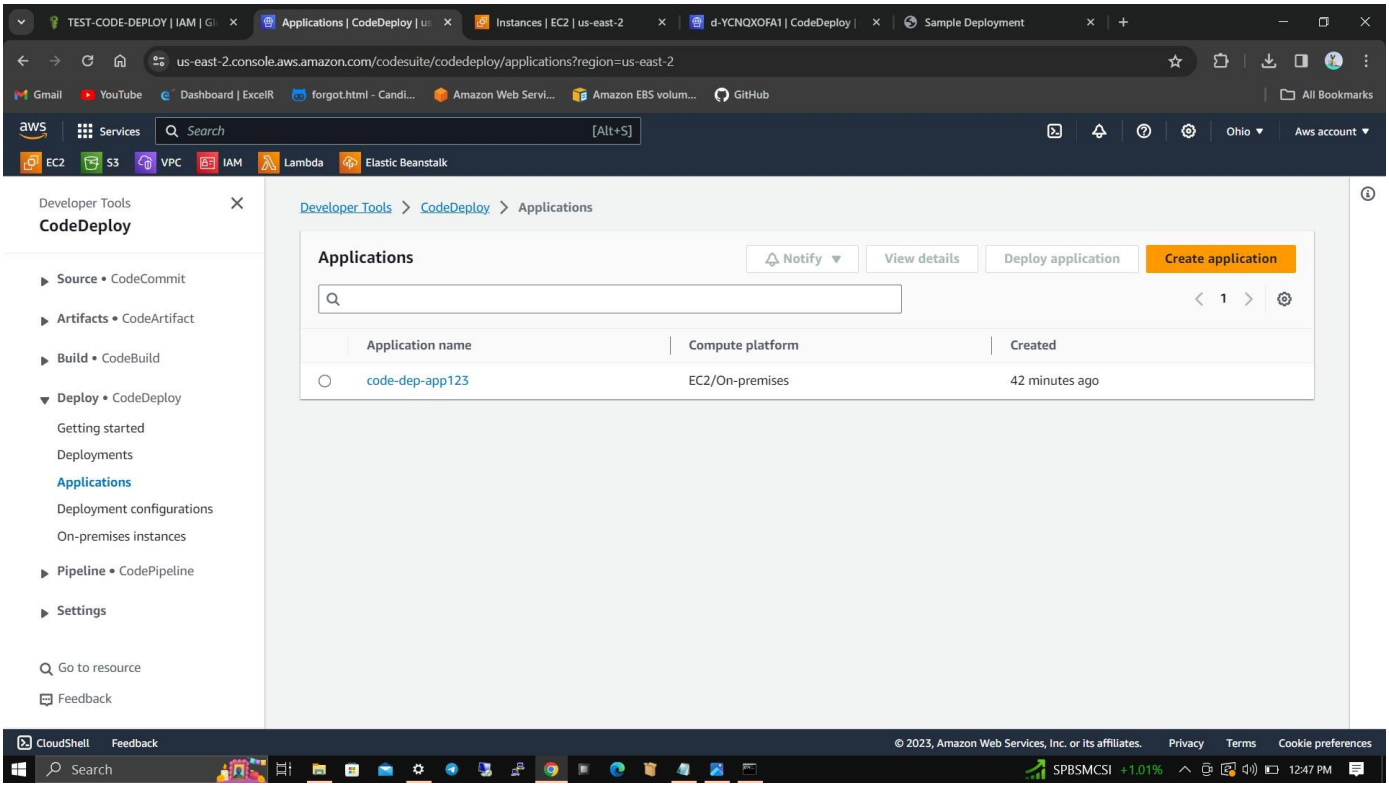


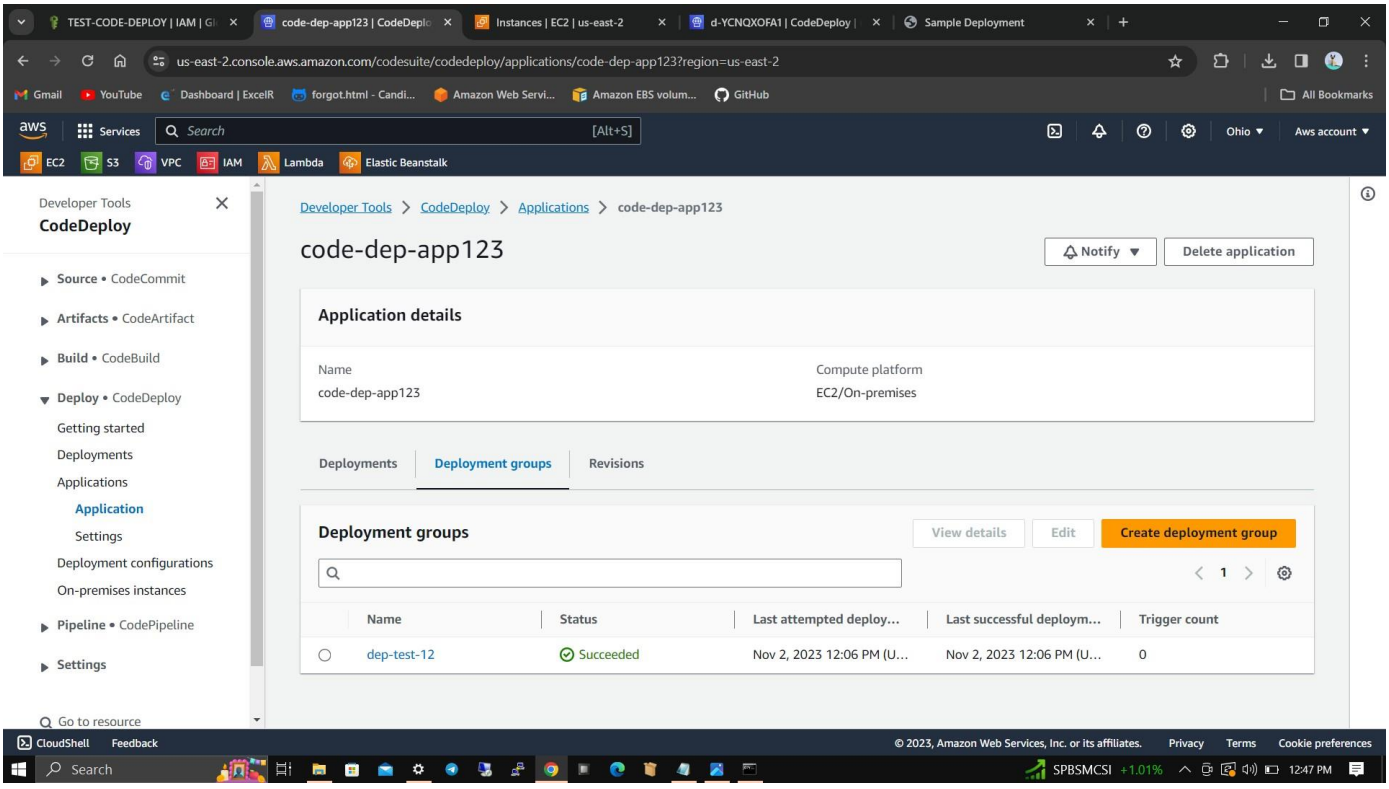
Step 4: Creating Amazon Linux EC2 instance:

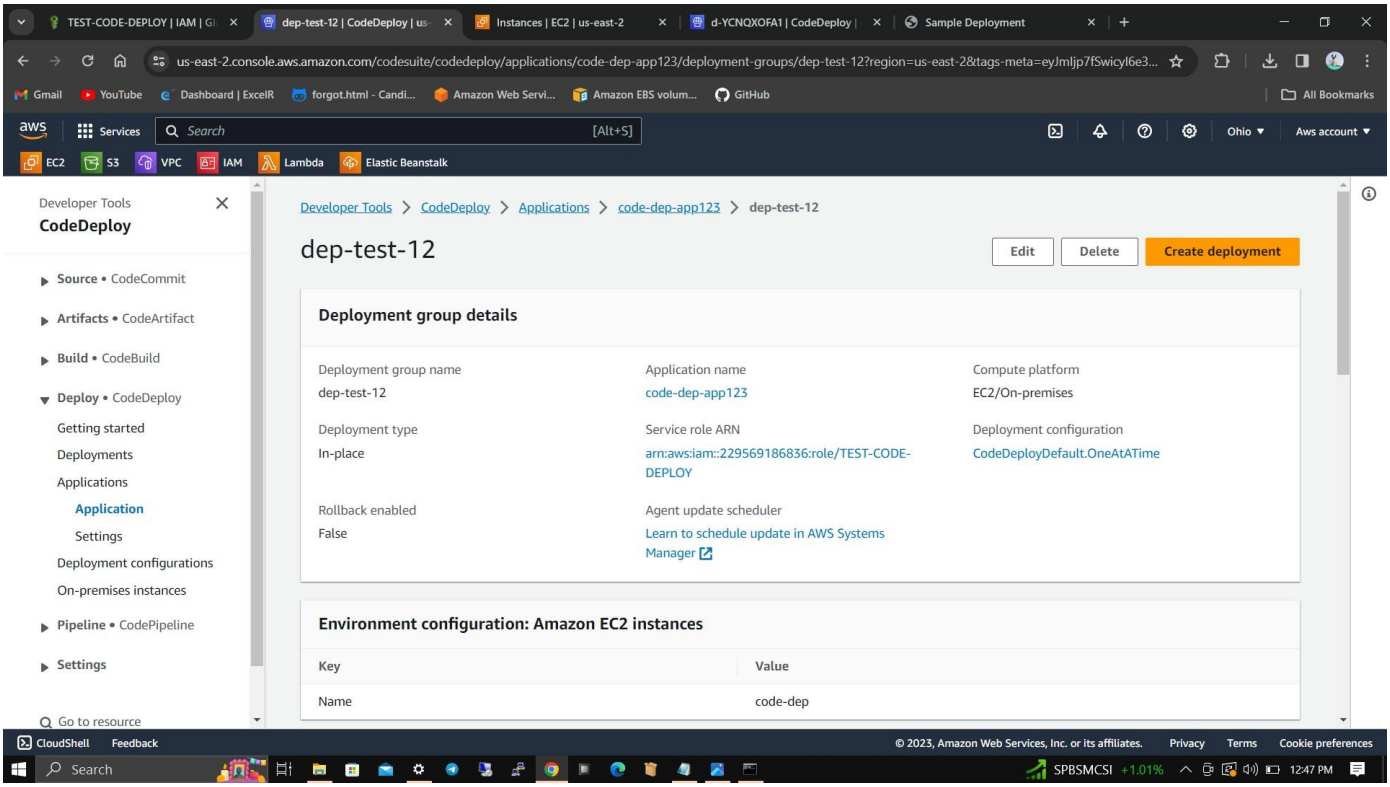




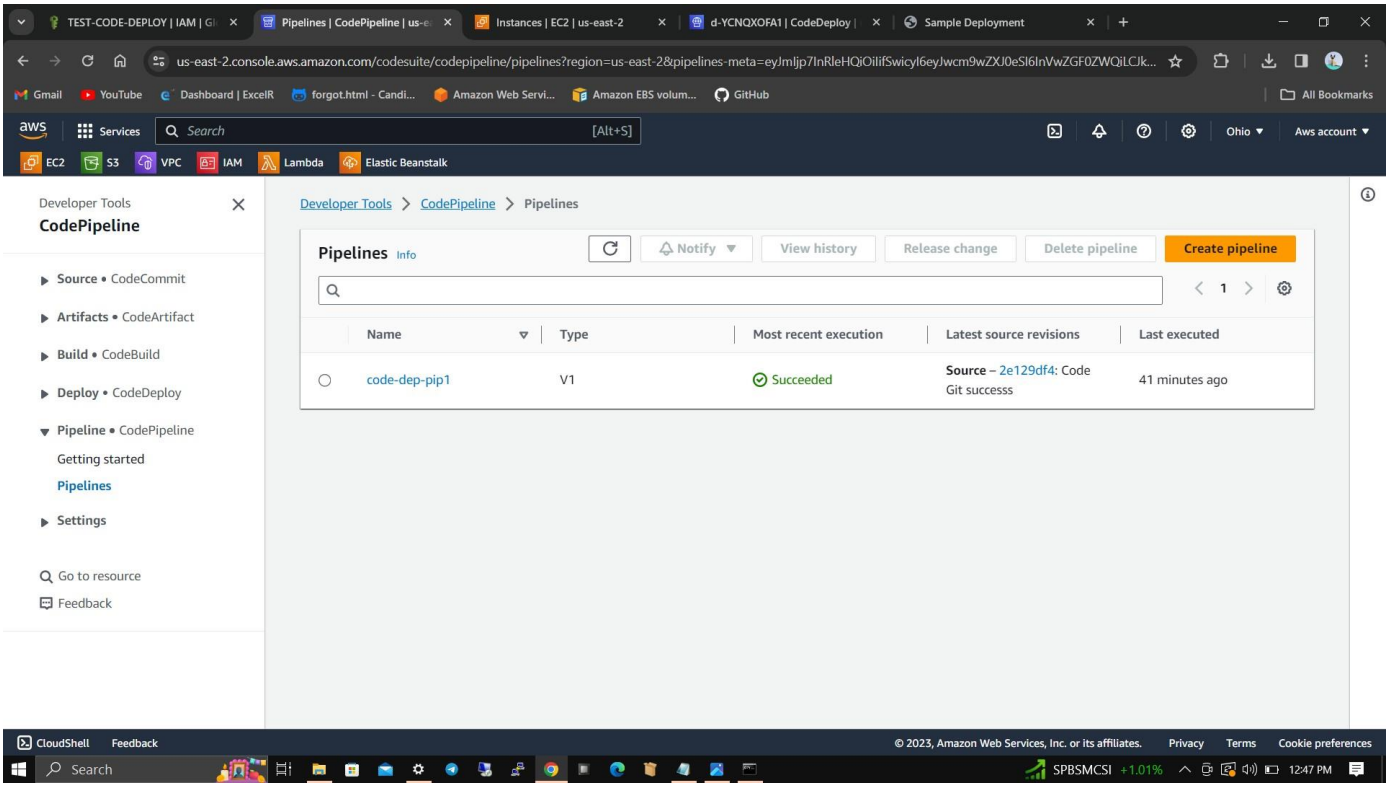
Step 5: Creating Code-Deploy Application and Code-Deployment Group.



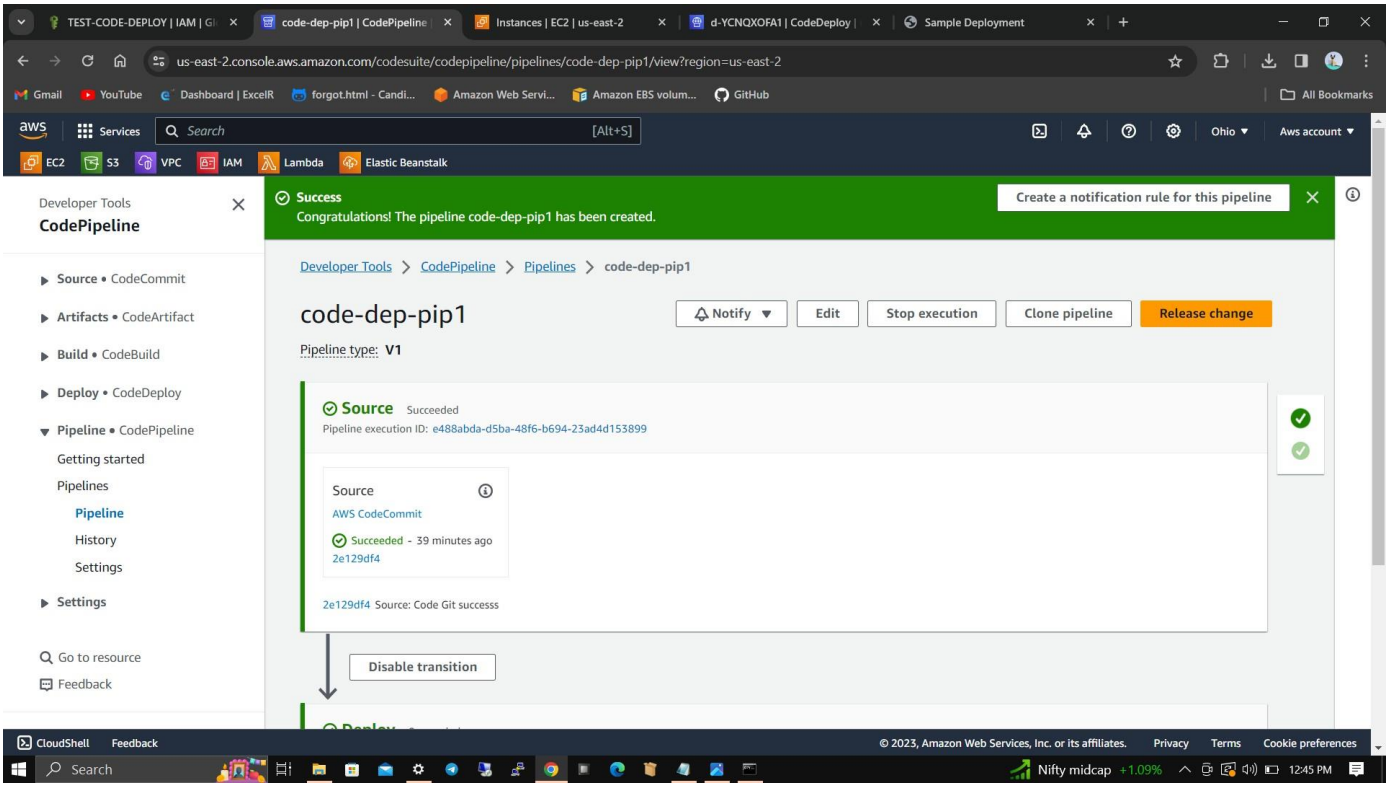


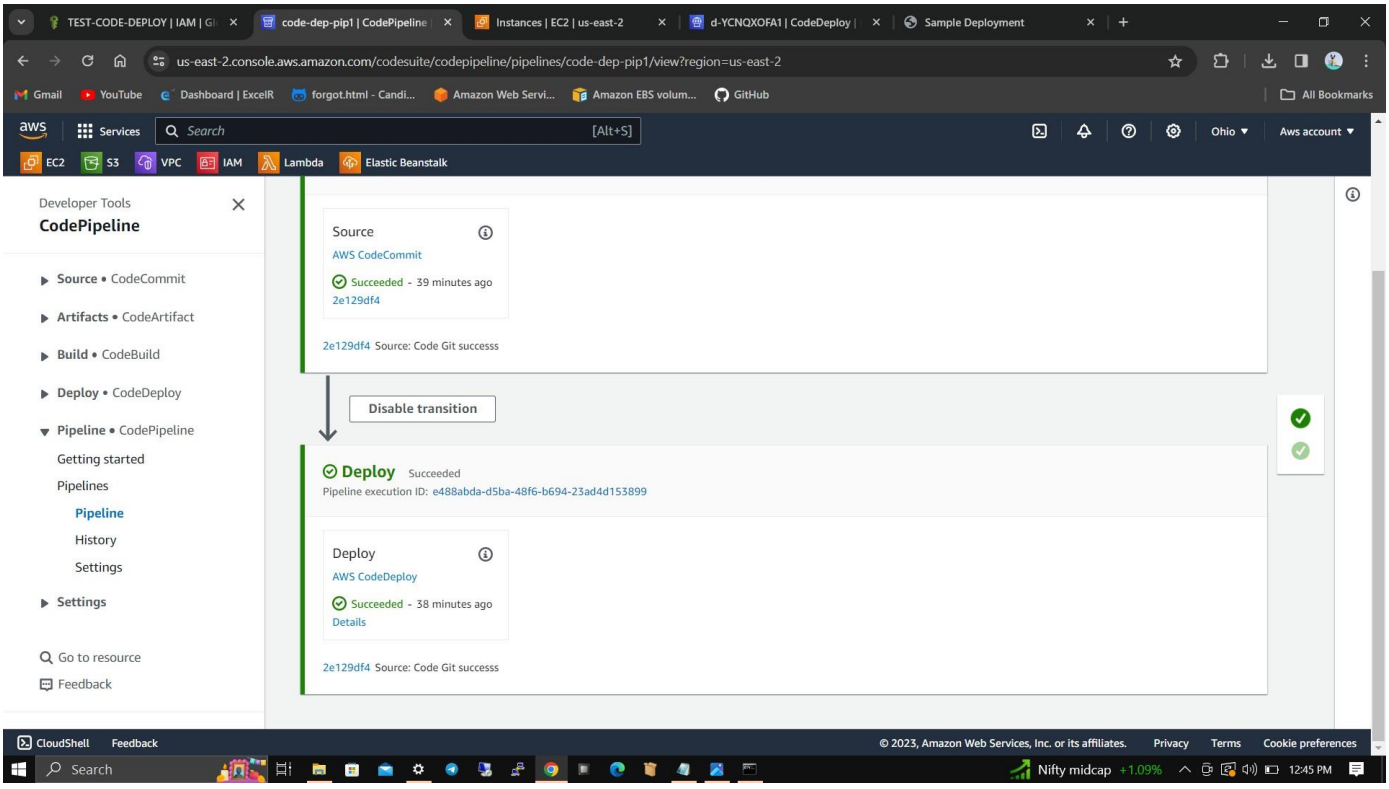


Step 6: Creating Pipeline.



Step 7: Verifying that pipeline ran successfully.





Step 8: Checking the o/p using public Ip of EC2 instance.