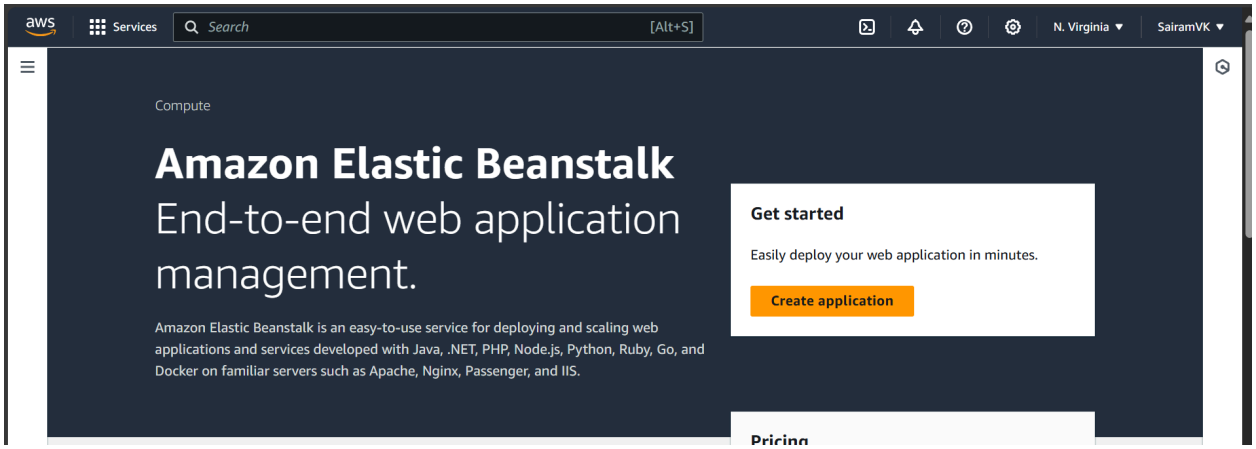
Name: Anish Kulkarni Roll No.: 29 Class: D15C AY: 2024-25

Experiment No. 2

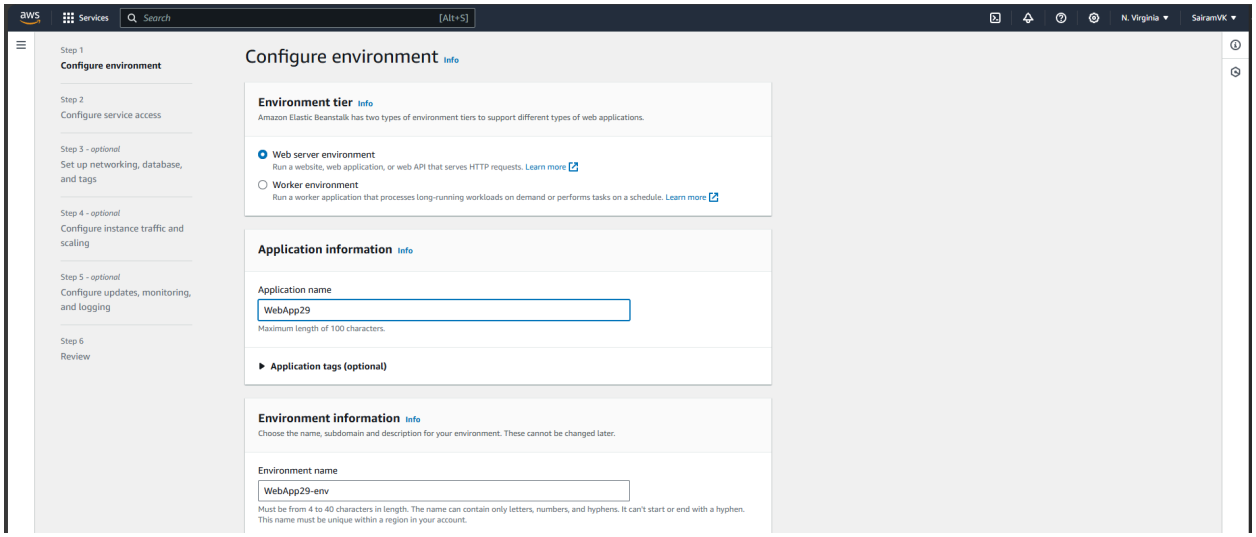
Aim: To build your application using AWS Codebuild and deploy on S3/SEBS using AWS CodePipeline, deploy a sample application on an EC2 instance using AWS CodeDeploy.

Steps:-

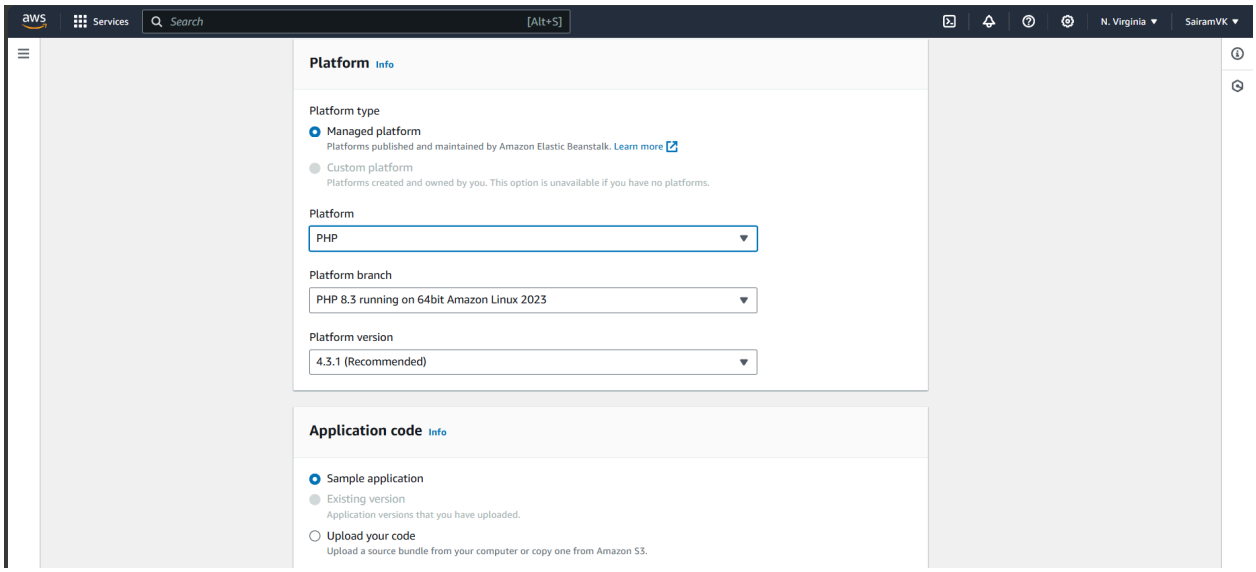
Step 1: Log into AWS and navigate to ‘Elastic Beanstalk’. Then, click on ‘Create application’.

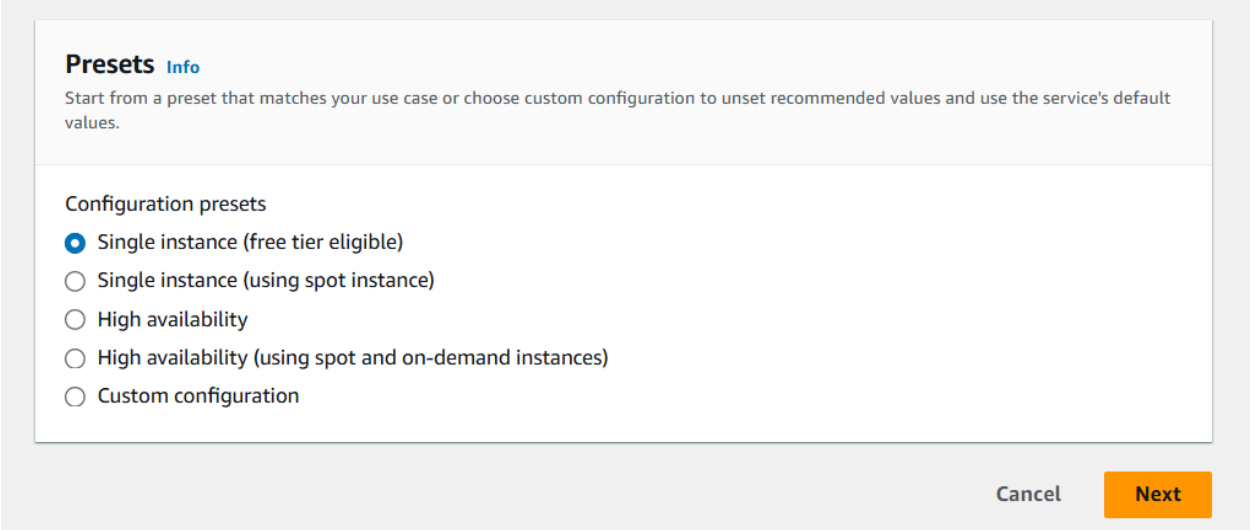


Step 2: Give your environment a name.

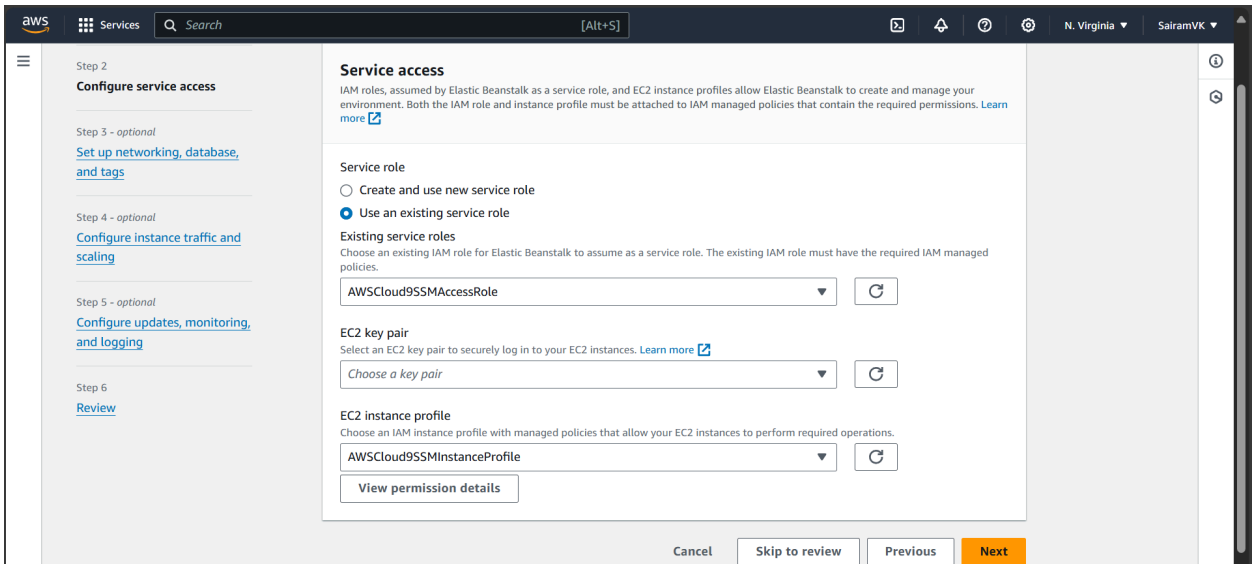


Step 3: In the ‘Platform’ drop-down box, choose PHP. Keep all other settings as default and click on ‘Next’.

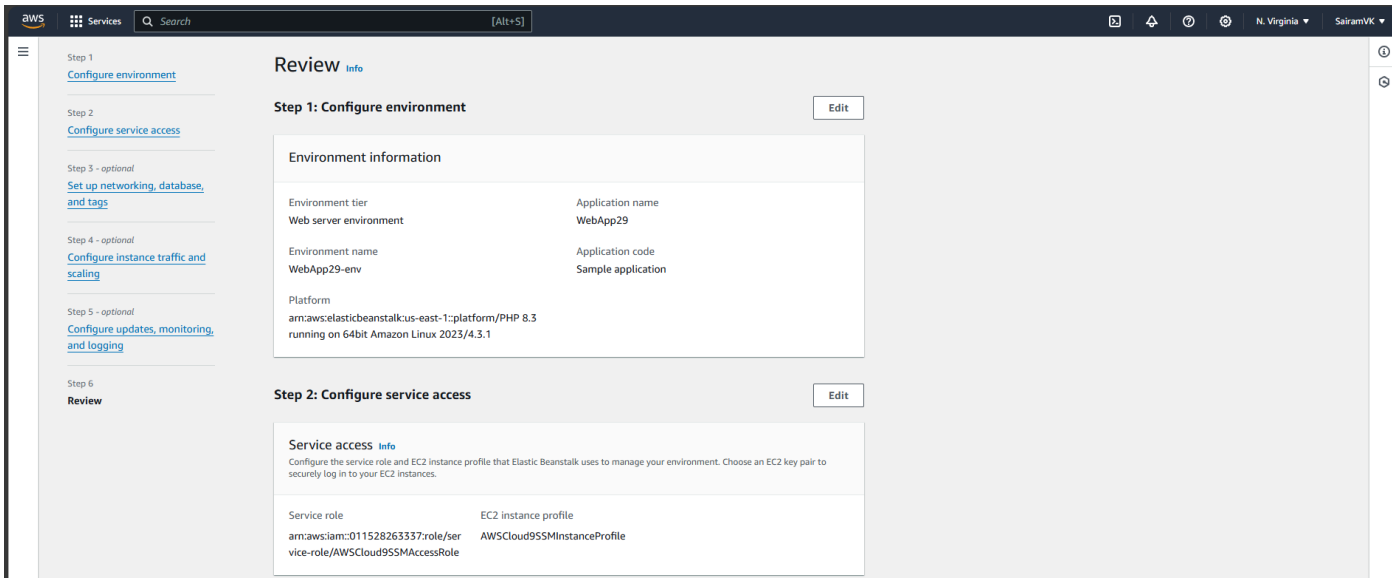


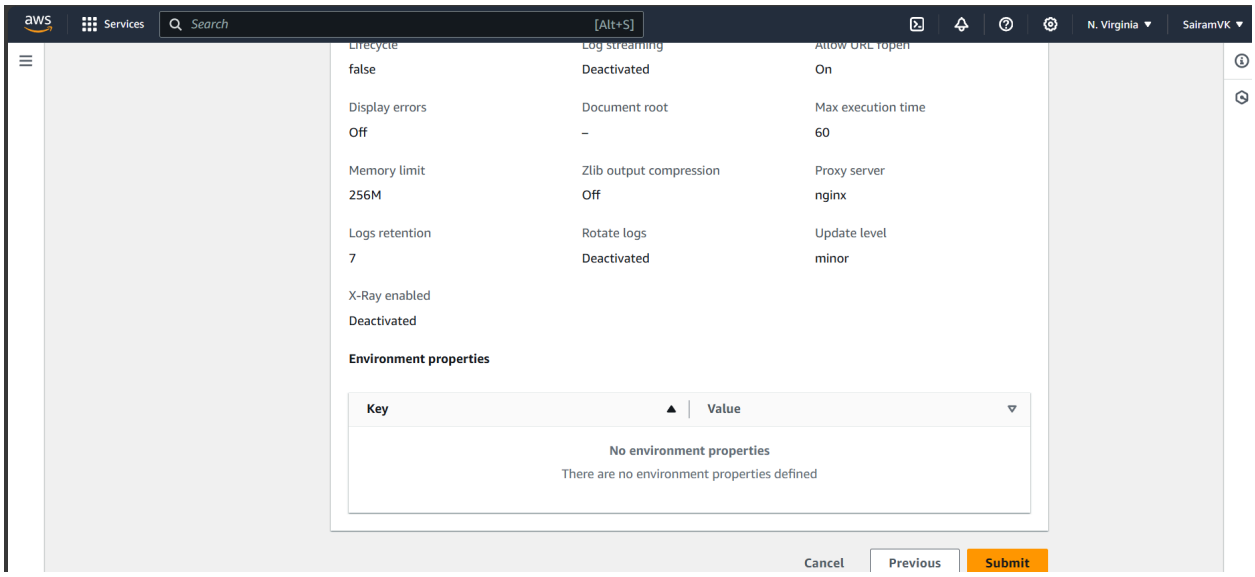


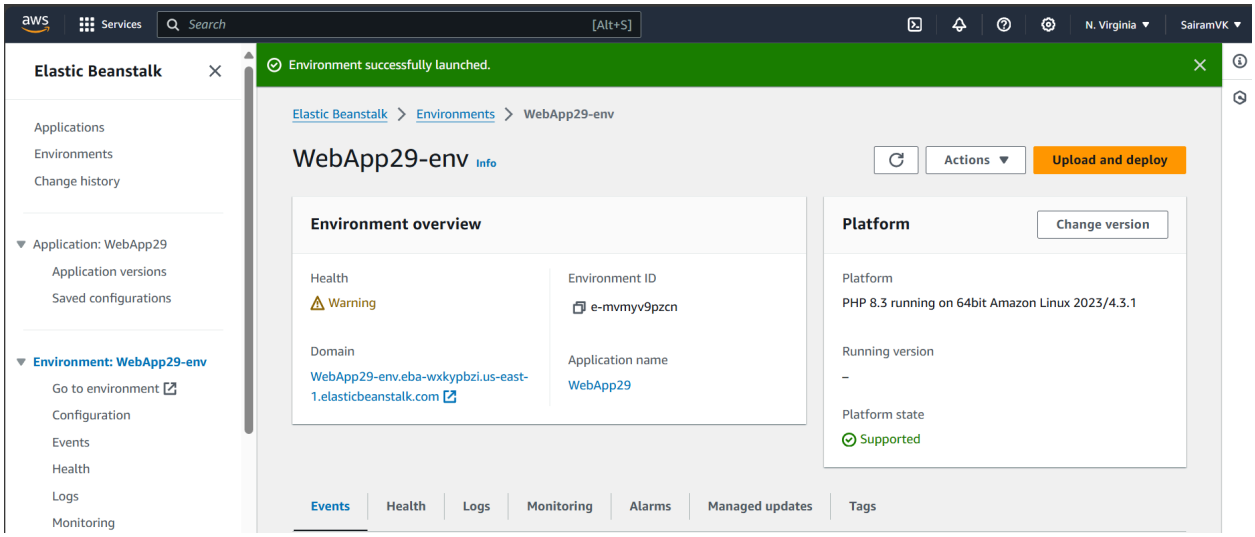
Step 4: In the ‘Service access’ section, choose ‘AWSCloud9AAMAccessRole’ in ‘Existing service roles’ and ‘AWSCloud9SSMInstanceProfile’ in ‘EC2 instance profile’.



Step 5: Review all the environment settings and click on ‘Submit’.

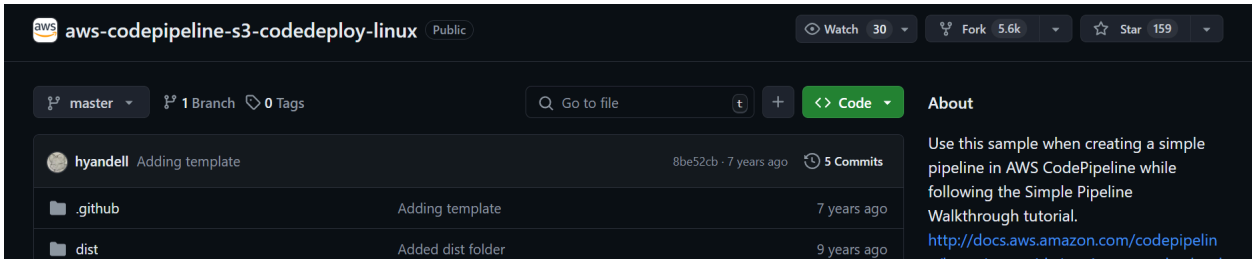


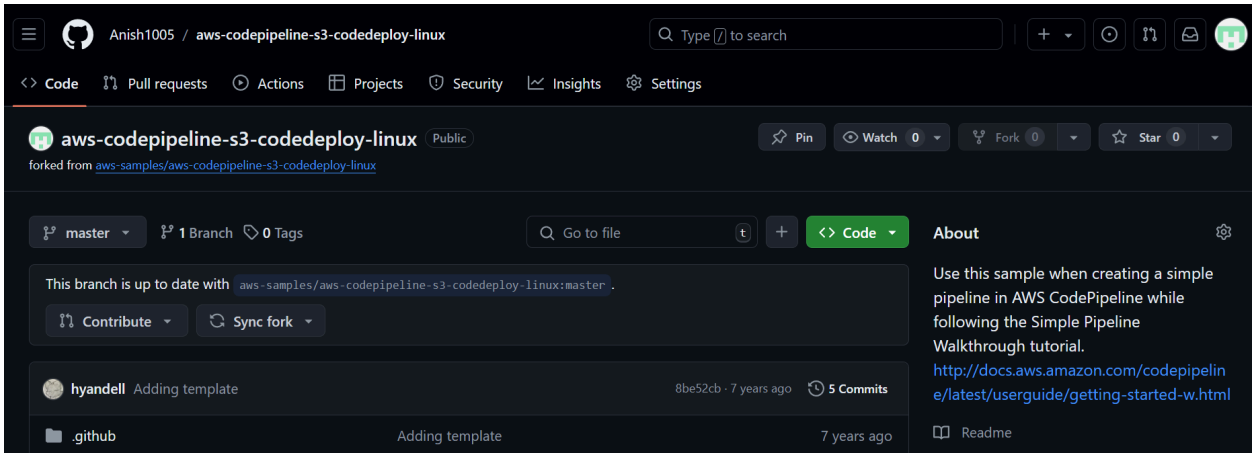




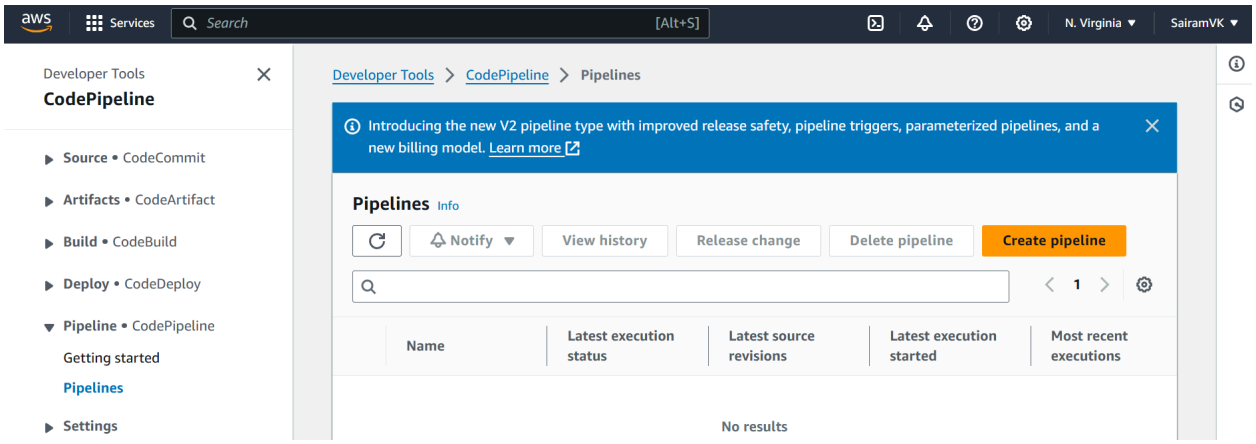
The environment gets created.

Step 6: Go to the github link below and fork the repository into your personal github in order to get the sample code for deploying a file on AWS CodePipeline.
https://github.com/aws-samples/aws-codepipeline-s3-codedeploy-linux

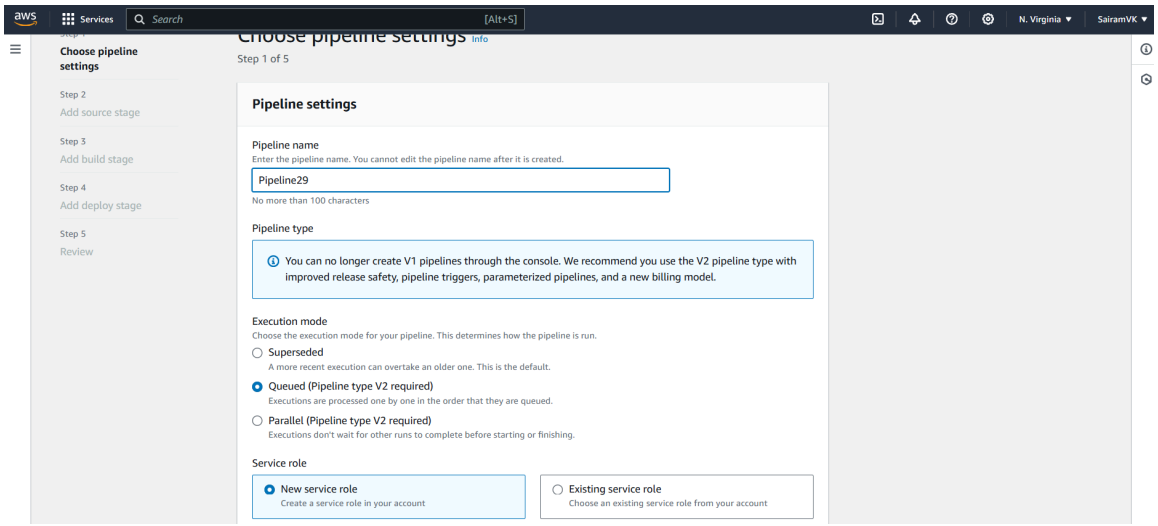


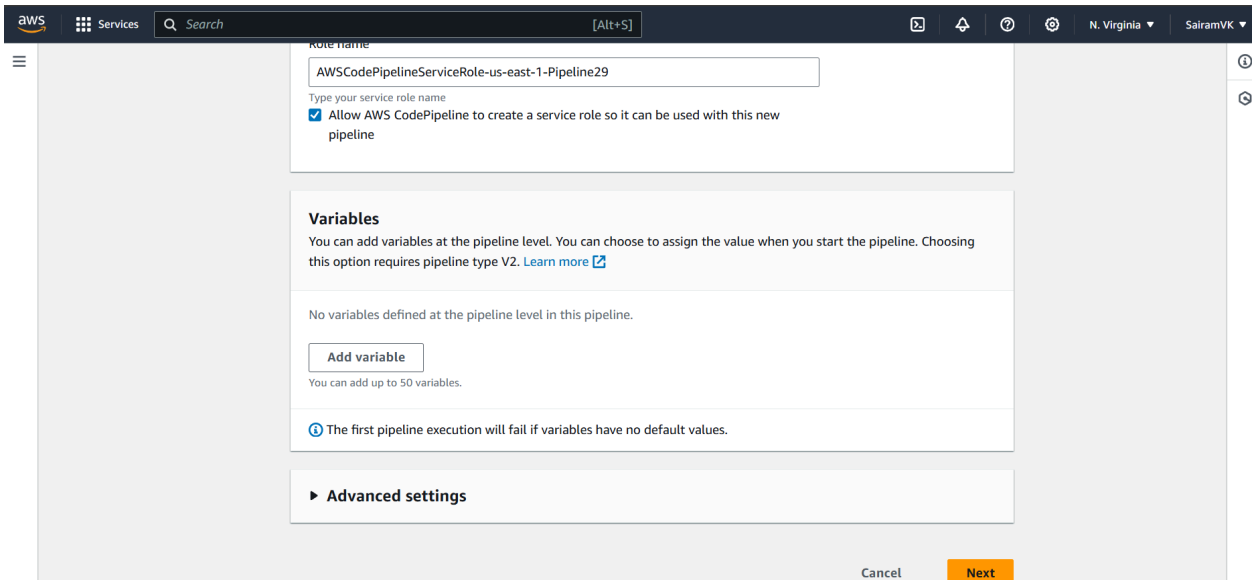


Step 7: Navigate to CodePipeline and click on ‘Create Pipeline’.

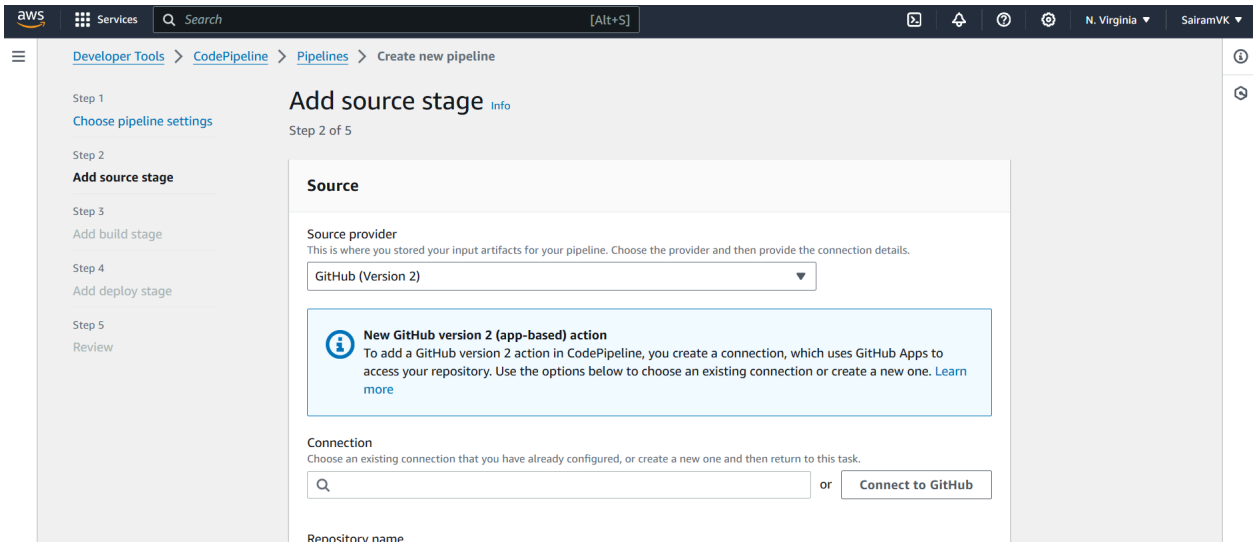


Step 8: Give your pipeline a name. A new service role is also created with the name of the pipeline.

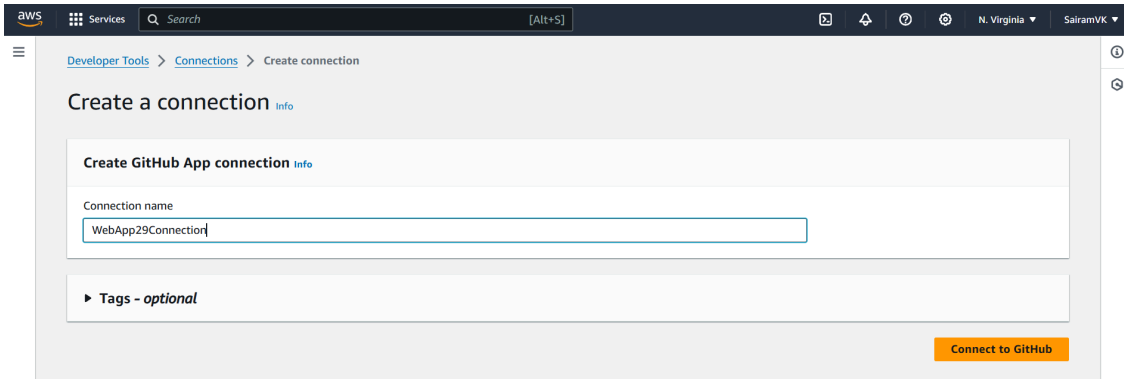


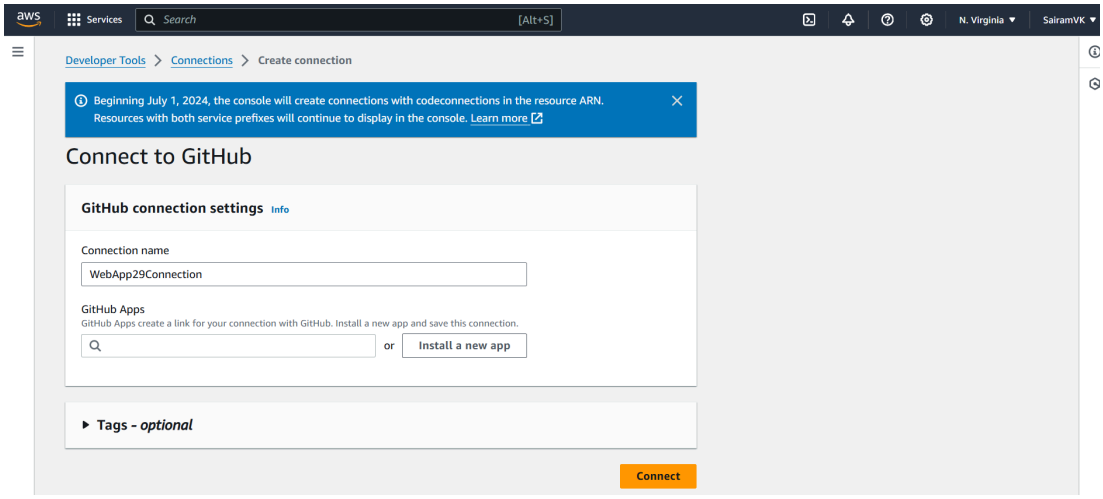


Step 9: Select Github (Version 2) as source provider and click on ‘Connect to Github’ to connect the pipeline to your Github.

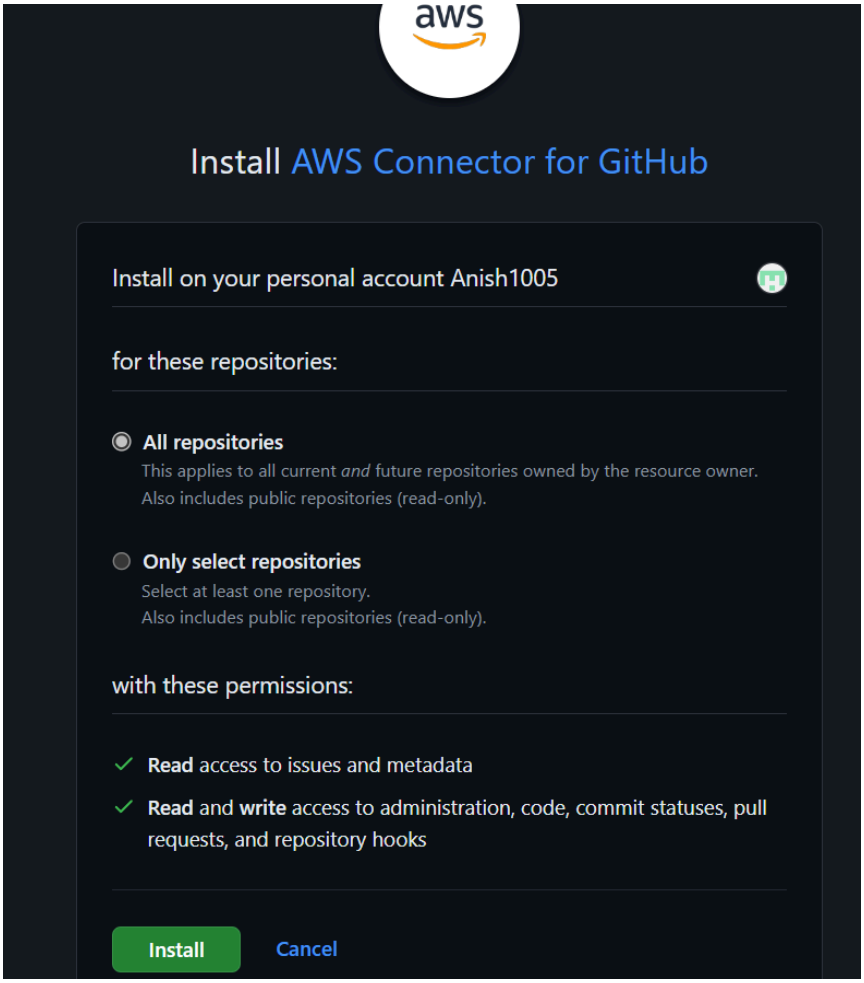


Step 10: Give your connection a name and click on ‘Connect to Github’. Then, either provide a link for connection or install the app if it is your first time.

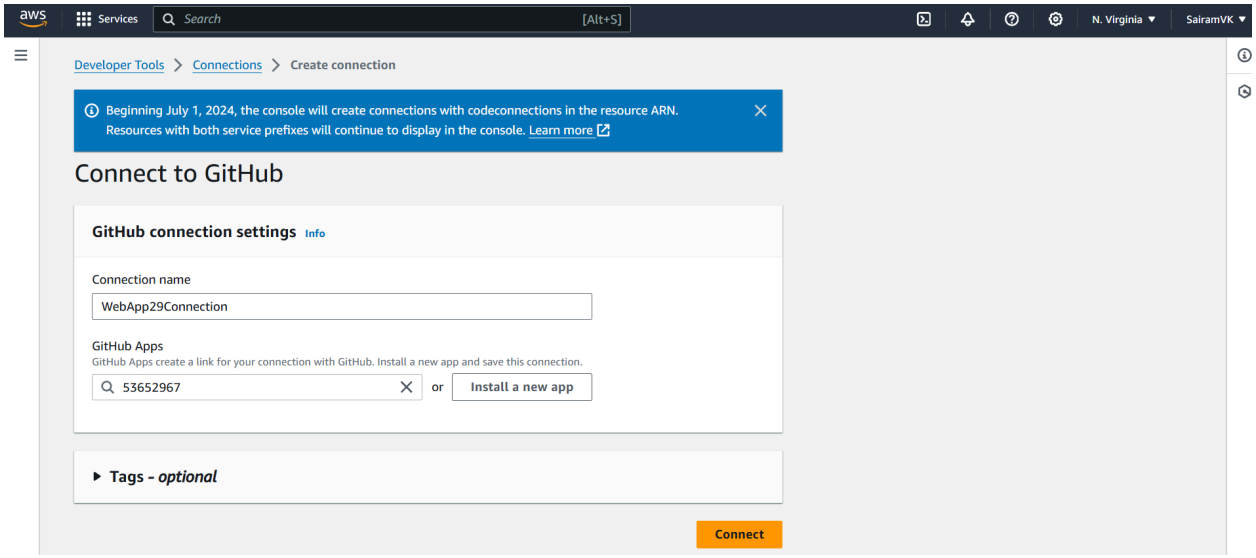


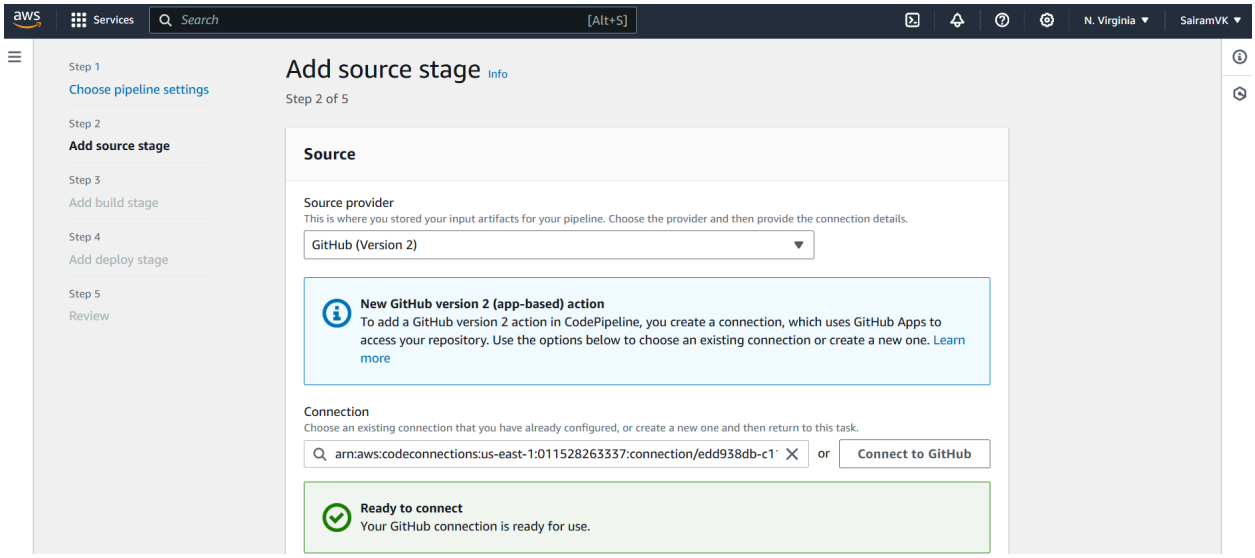


Step 11: Install AWS Connector for Github.



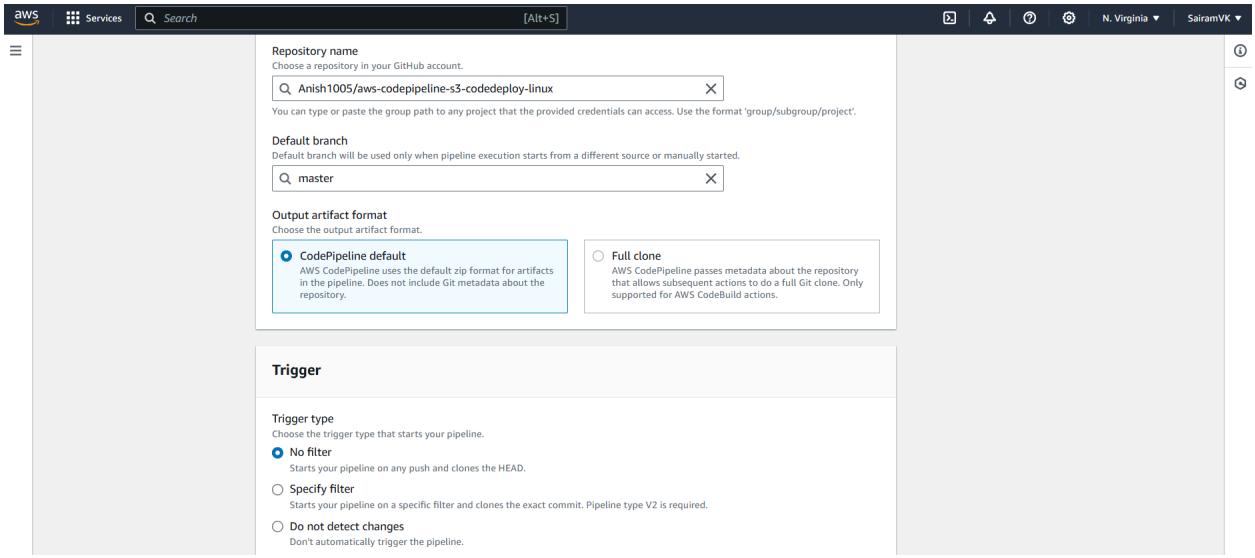
Step 12: Once installation is done, the text field is filled automatically. Click on ‘Connect’.



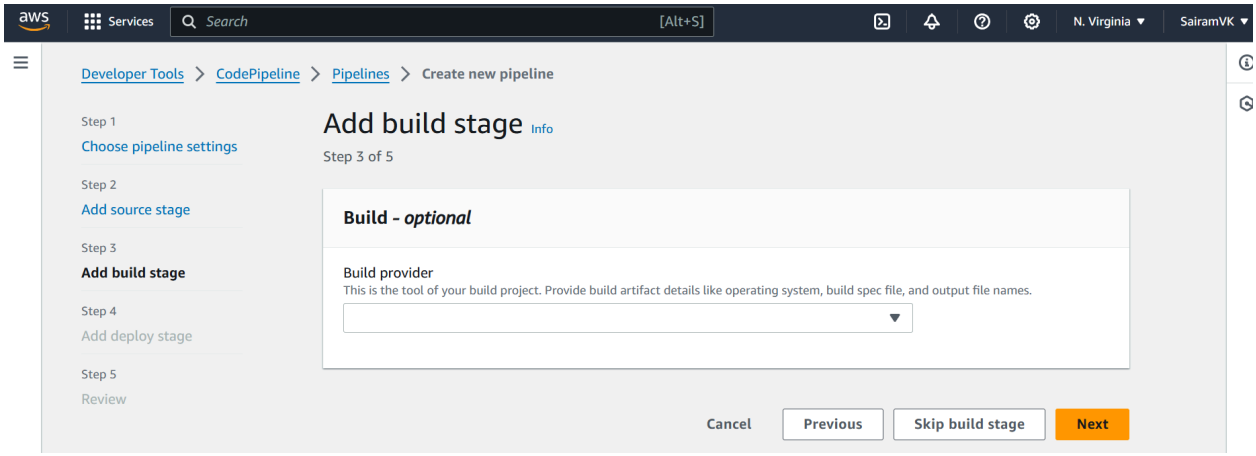


AWS shows that the Github connection is ready to use.

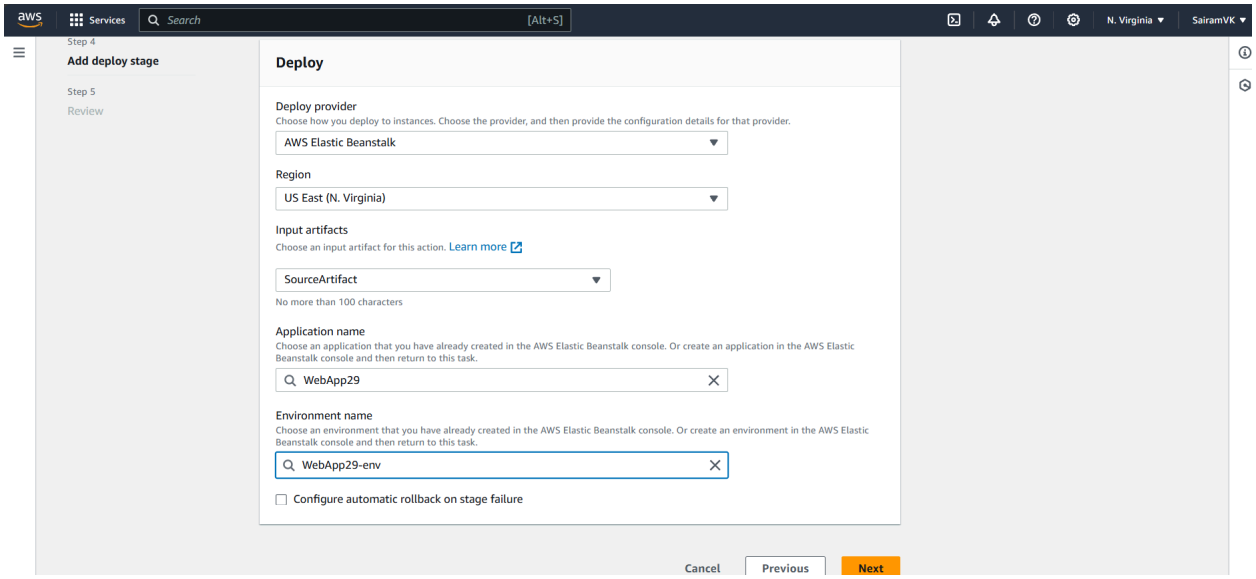
Step 13: Select the repository that you forked the sample code to be deployed to and choose the branch on which the files are present (‘master’ is set as default). Also set the trigger type as ‘no filter’.



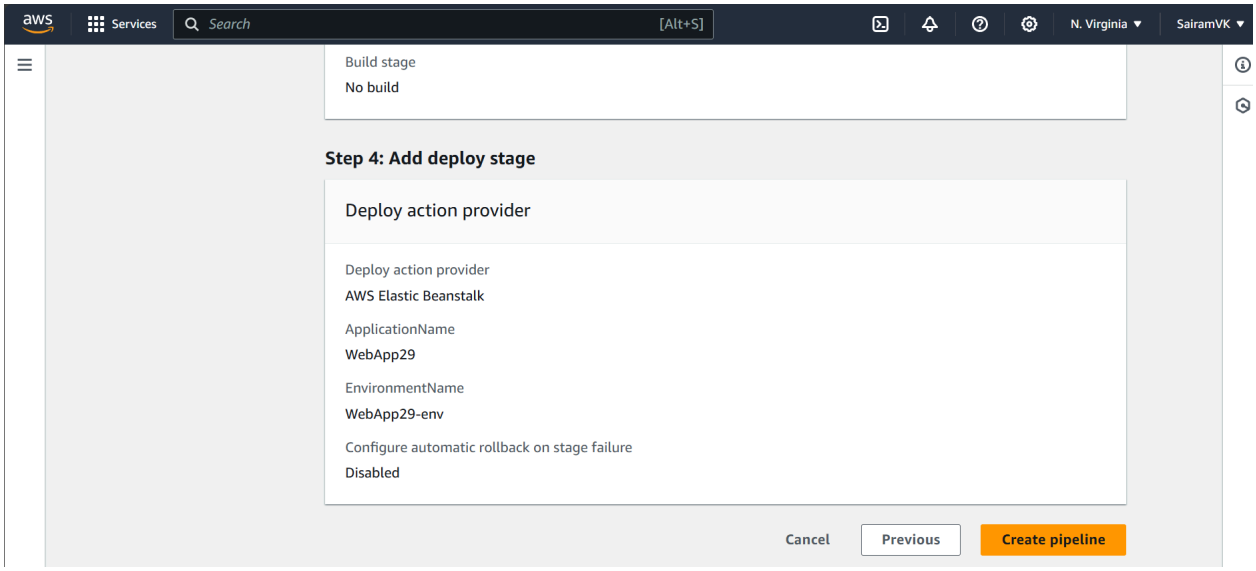
Step 14: Skip the build stage and go to deploy stage.

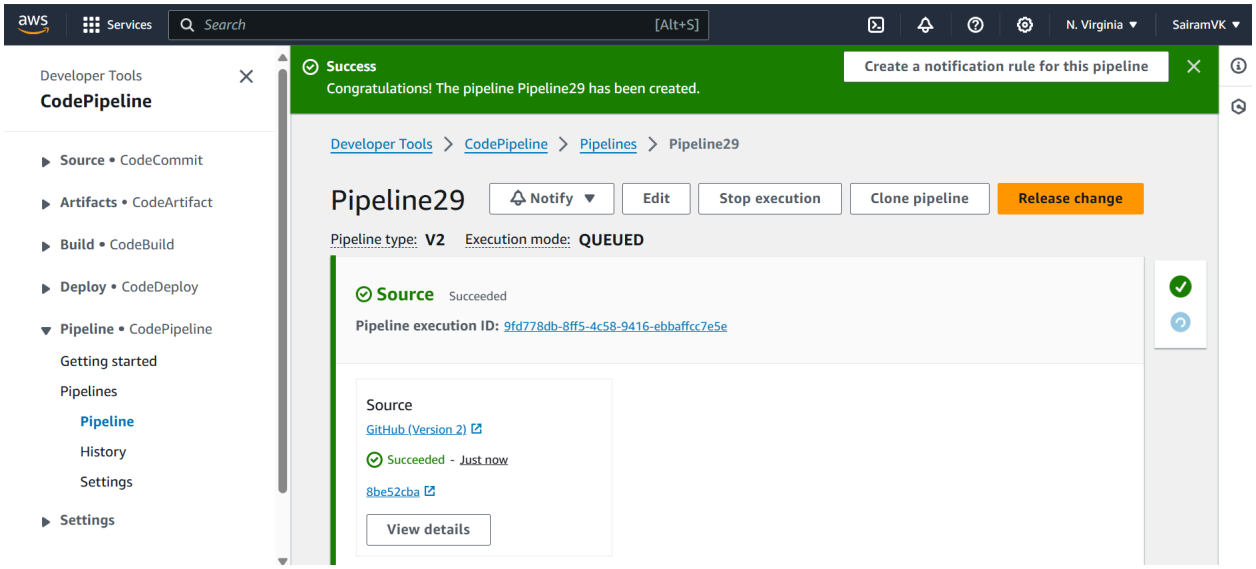


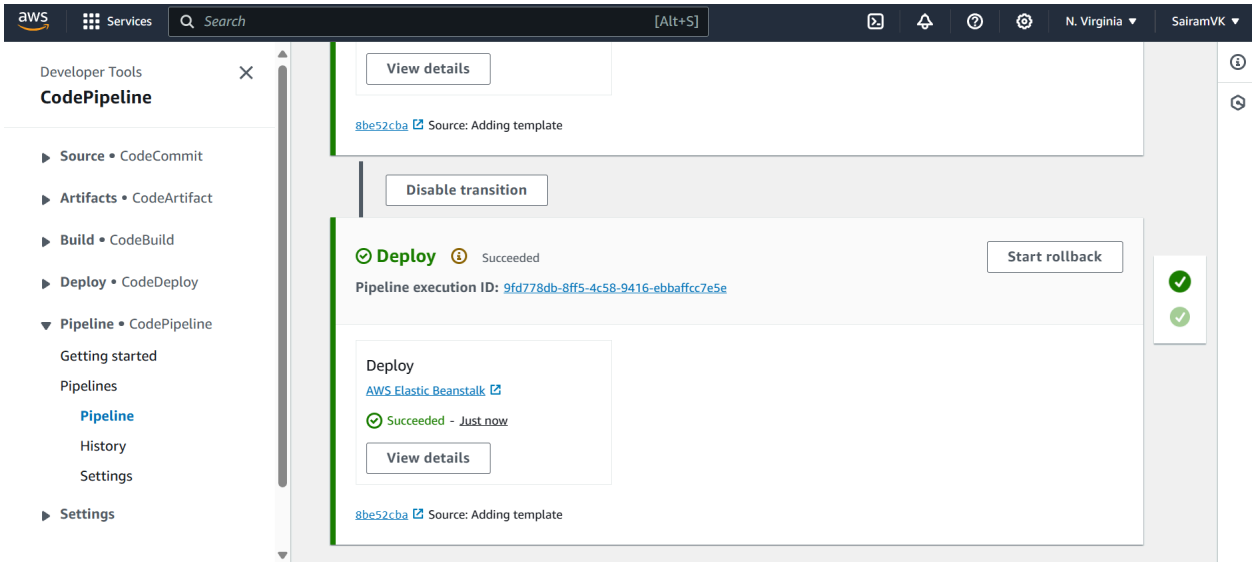
Step 15: Choose ‘AWS Elastic Beanstalk’ as deploy provider and input artifacts as ‘SourceArtifact’. Then, enter the names of your application and environment.



Step 16: Review all pipeline information and click on ‘Create pipeline’.

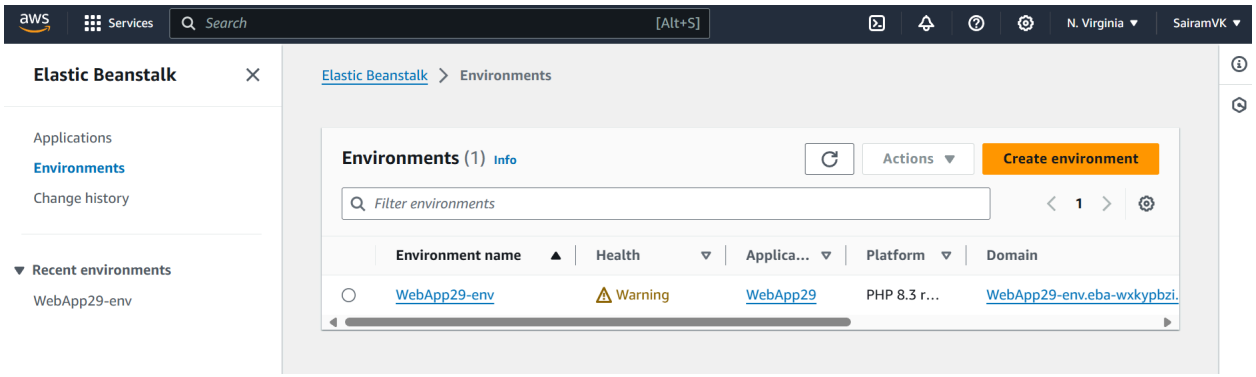




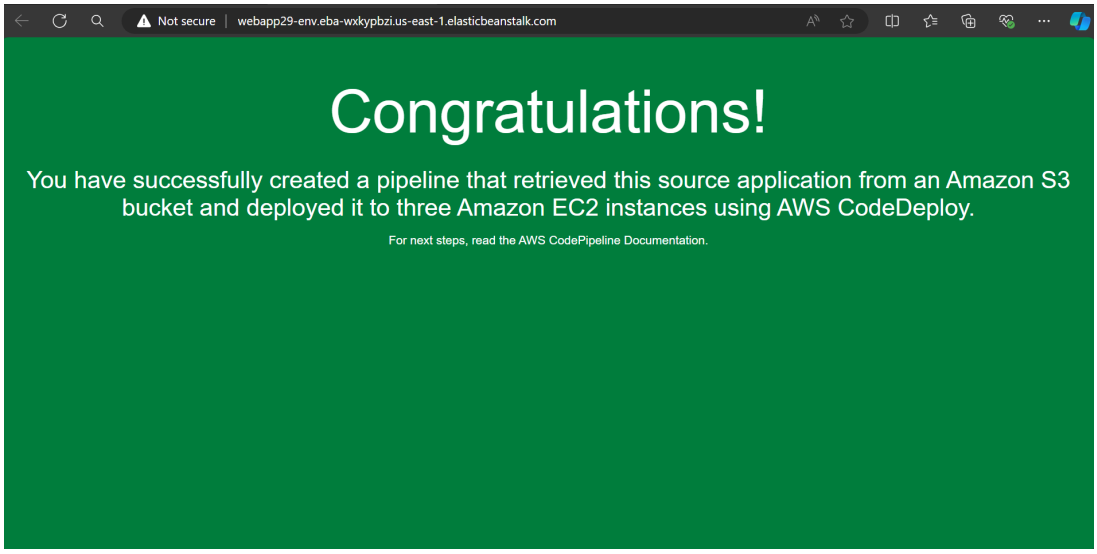


The pipeline is created and deployment is complete.

Step 17: Clicking on ‘AWS Elastic Beanstalk’ under ‘Deploy’ redirects you to the environments screen of Elastic Beanstalk. Click on the link under ‘Domain’.



Step 18: The sample website is displayed showing that the website was successfully hosted.



Step 19: Making changes to the index file in the github will update the website and changes made to the website are visible.