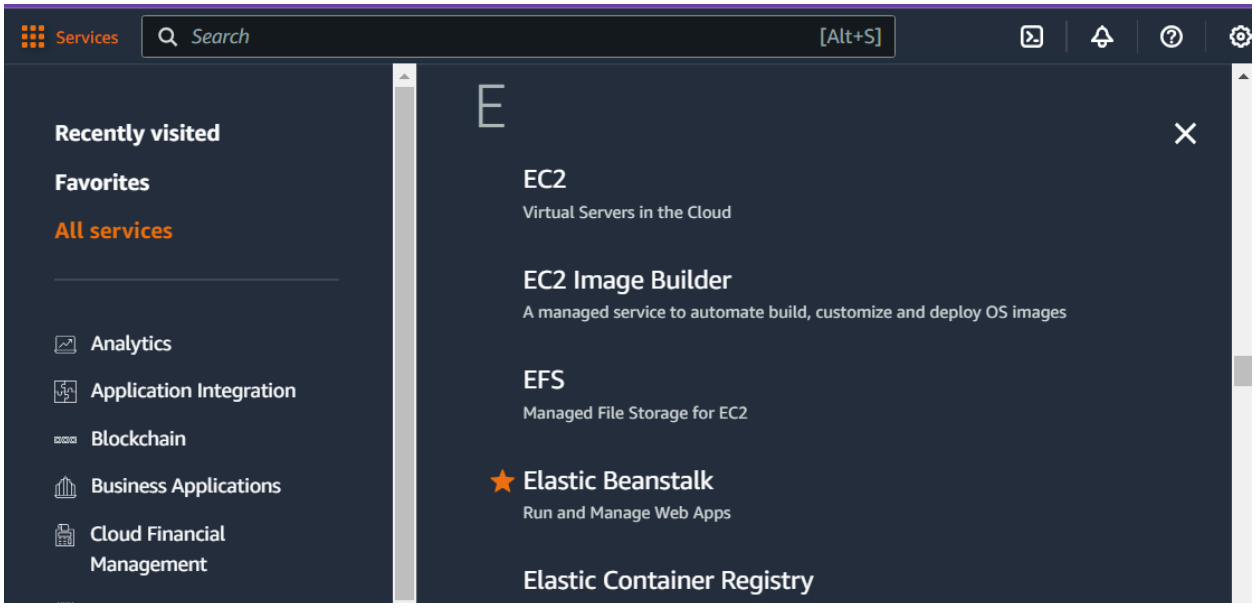
NAME: VEDANT DHOKE CLASS/ROLL NO: D15C/9

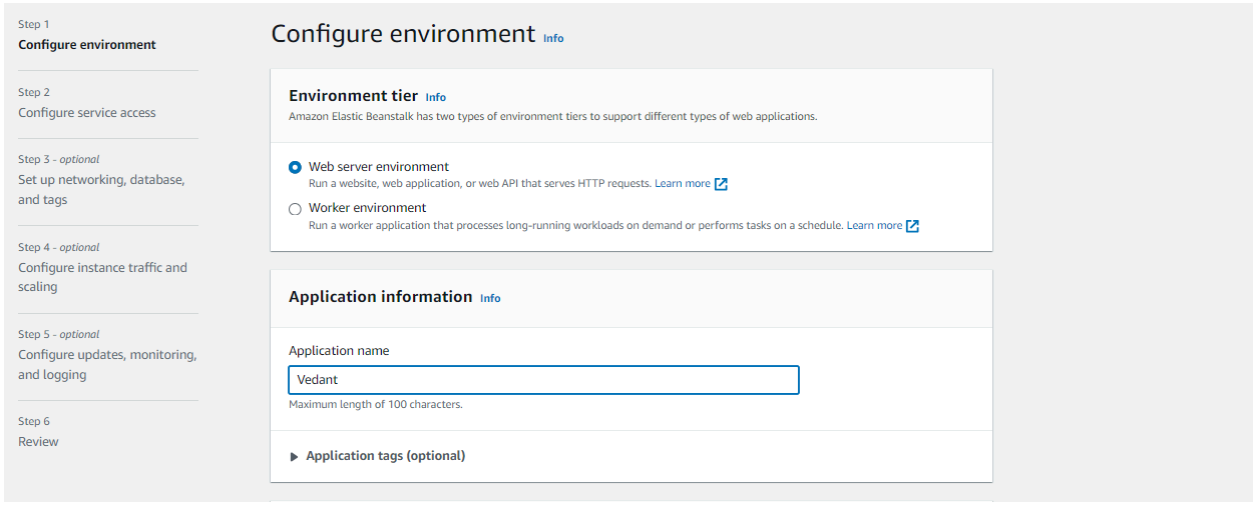
AdvDevOps Exp 2

Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

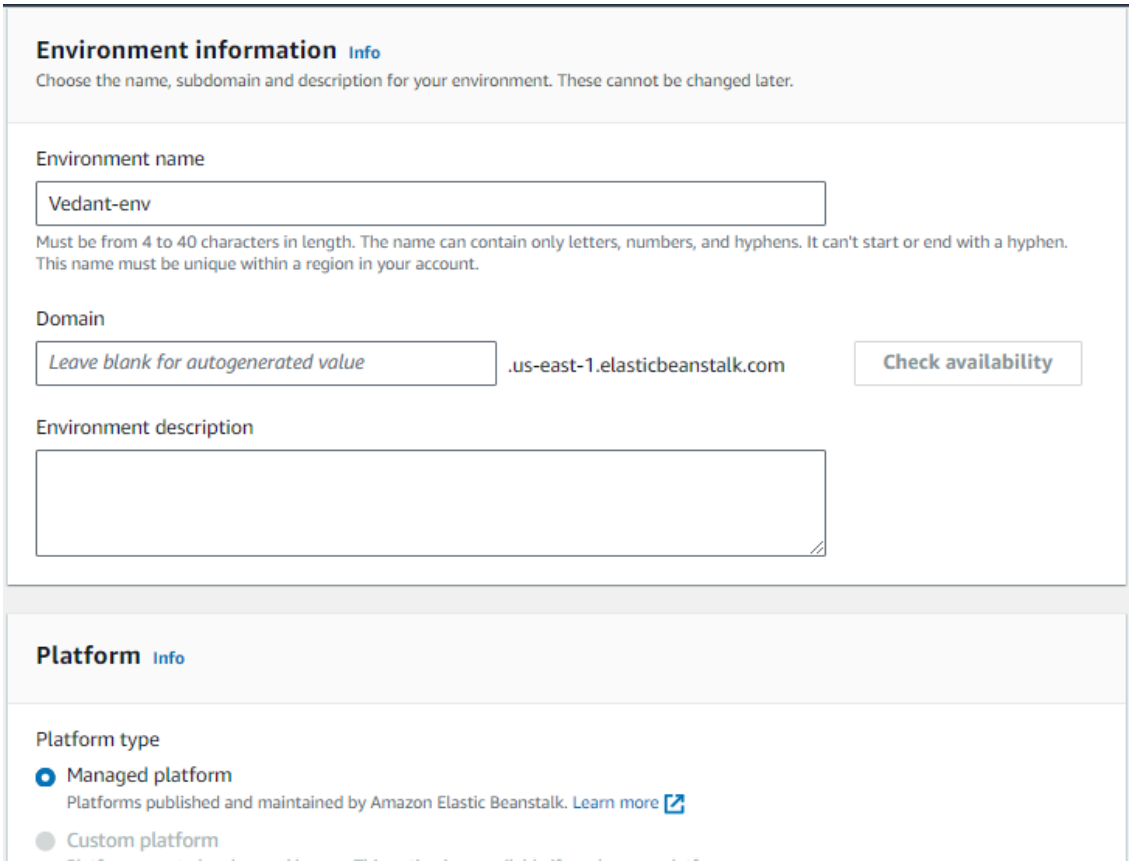
1. Login to your AWS account and search for Elastic Beanstalk in the search box.



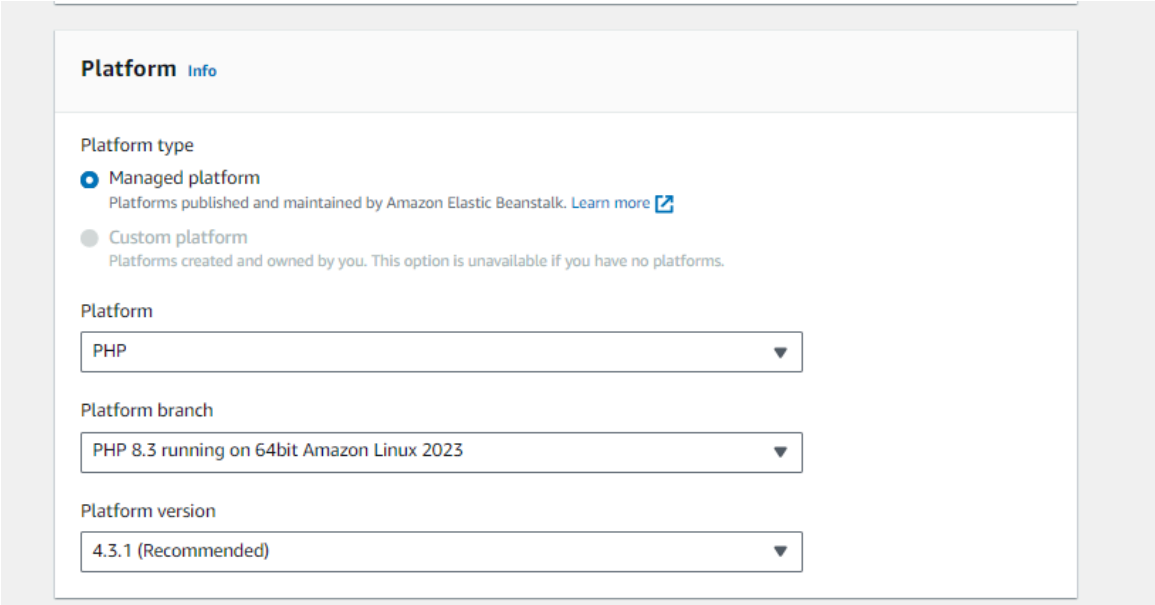
2. Open the Elastic Beanstalk and name your web app as shown below.



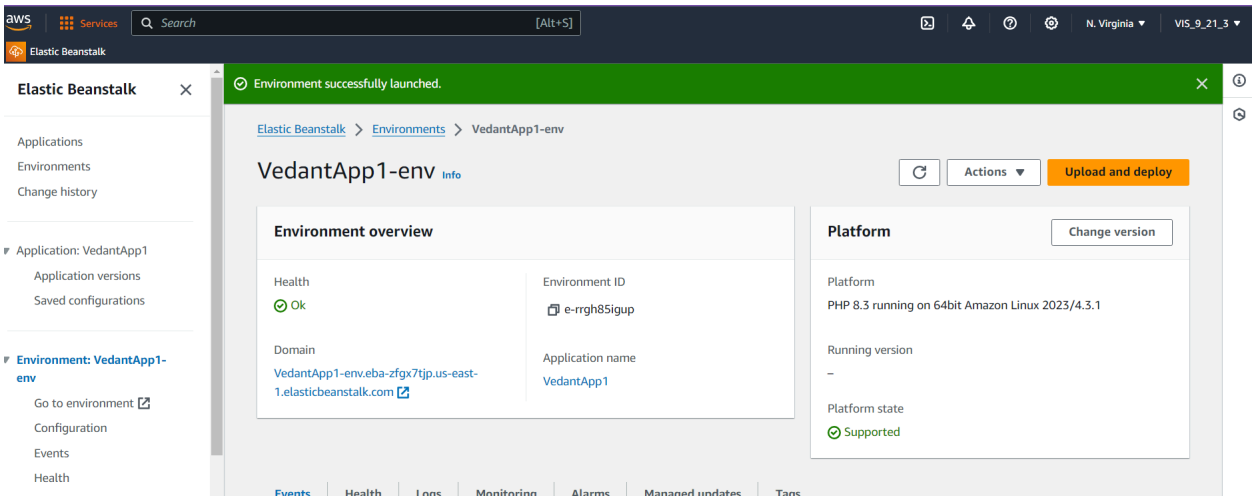
3. Automatically your environment name is set.



4. Choose PHP from the drop-down menu and then click Create Application.



5. We can see that our Environment is created and launched successfully



6. In this step, we'll obtain the sample code from a GitHub repository to host it later. The pipeline pulls the code from the source and executes specific actions.

To get started, navigate to the provided GitHub repository and fork it to your account.r this experiment, we will use a forked GitHub repository as our source.

We can see that in VedantDhoke repository the provided GitHub repository is forked.

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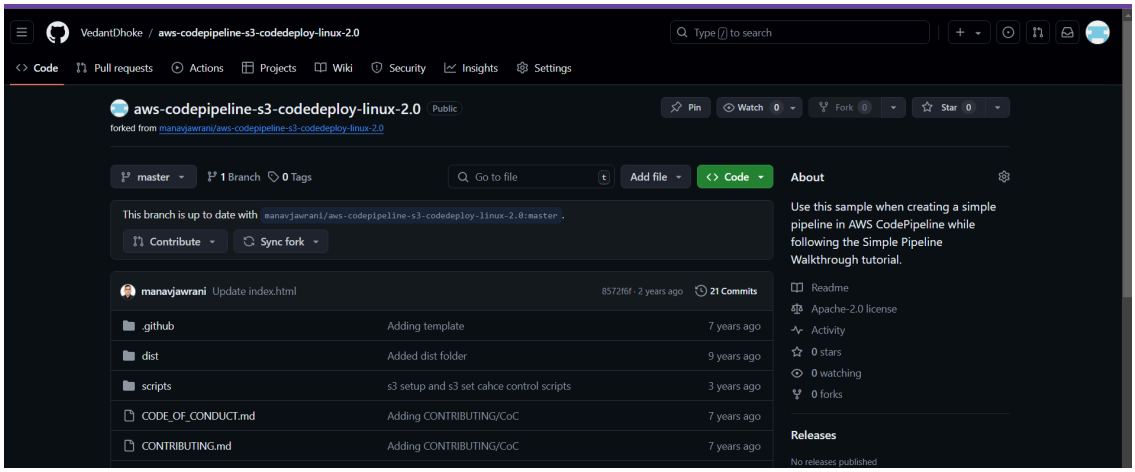
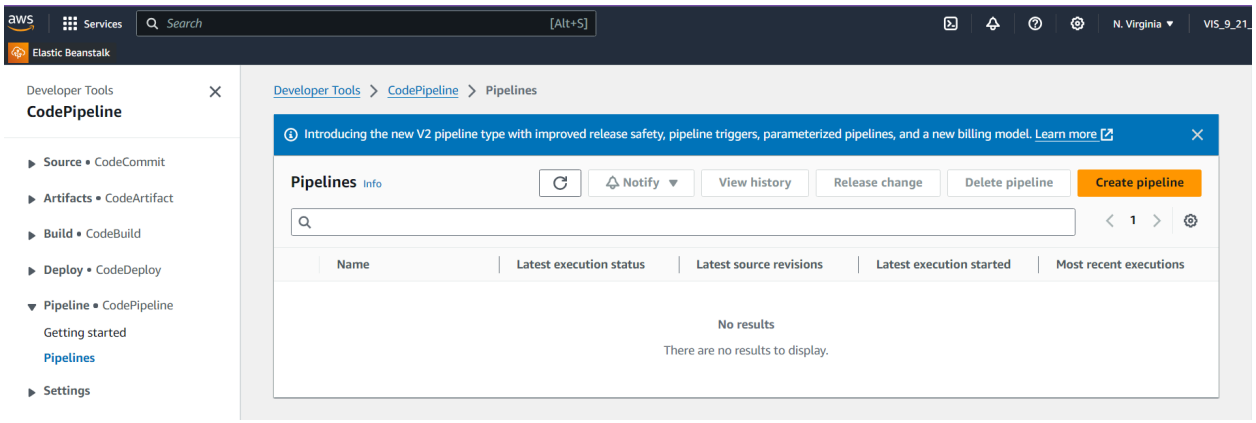


7. Now we want to create a Pipeline. Navigate to Developer Tools -> CodePipeline and
Click on create pipeline.



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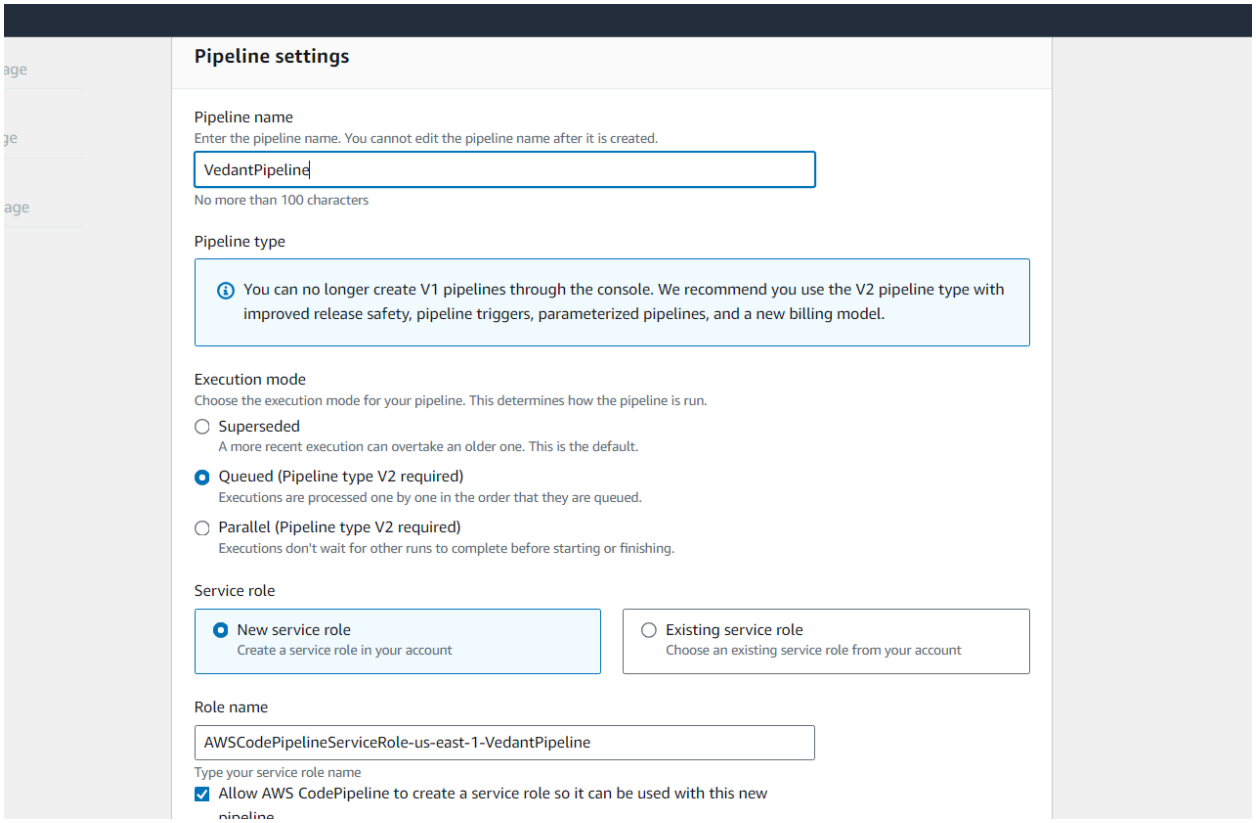
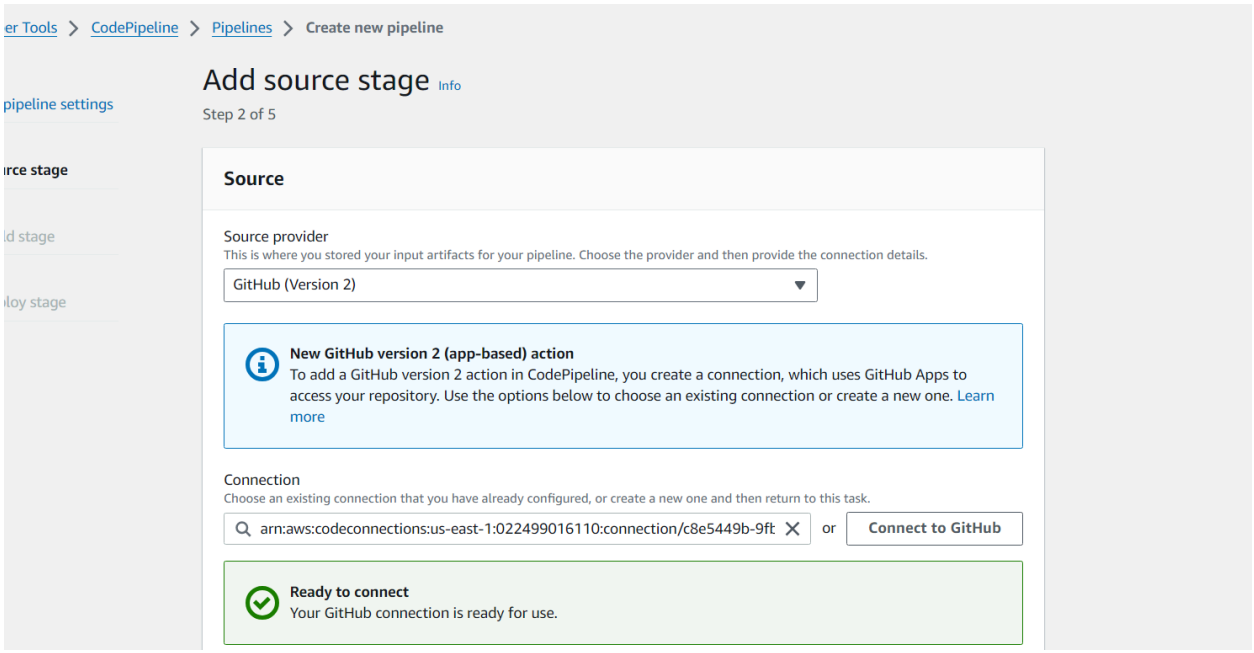
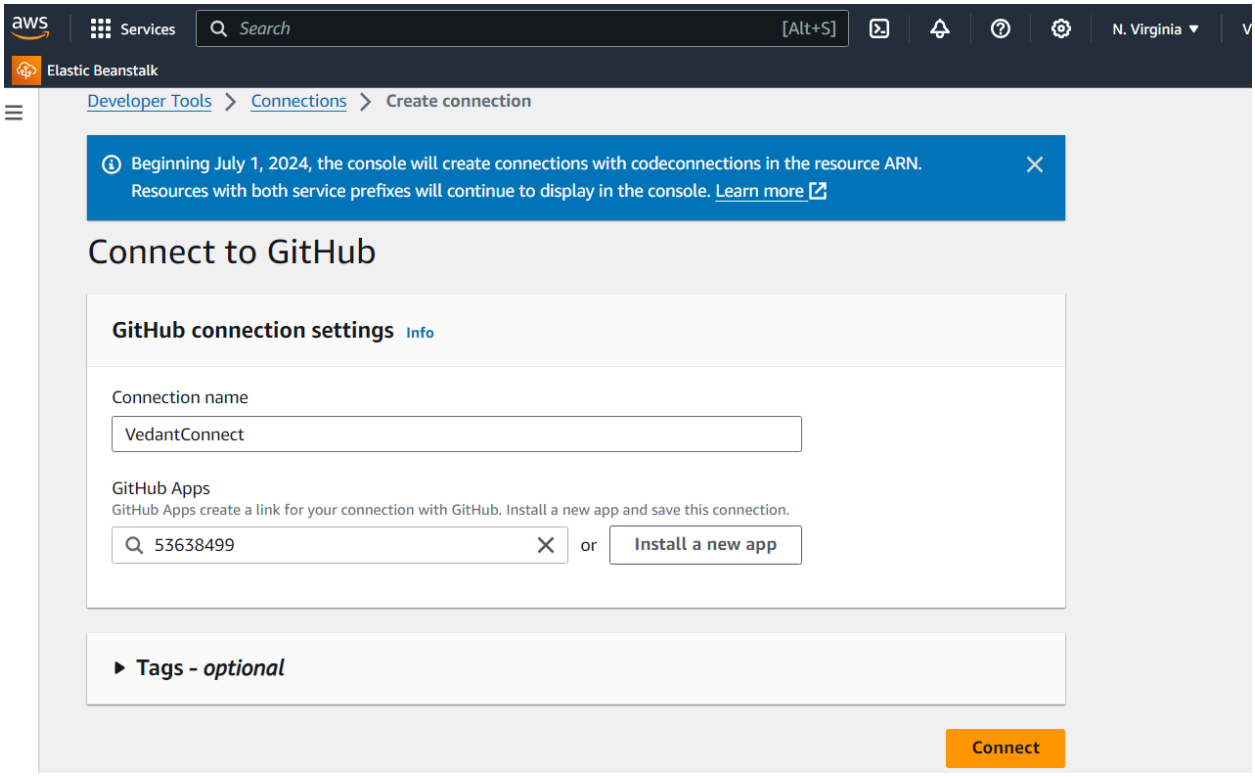
8. Give name to your pipeline and do the settings in step 1.

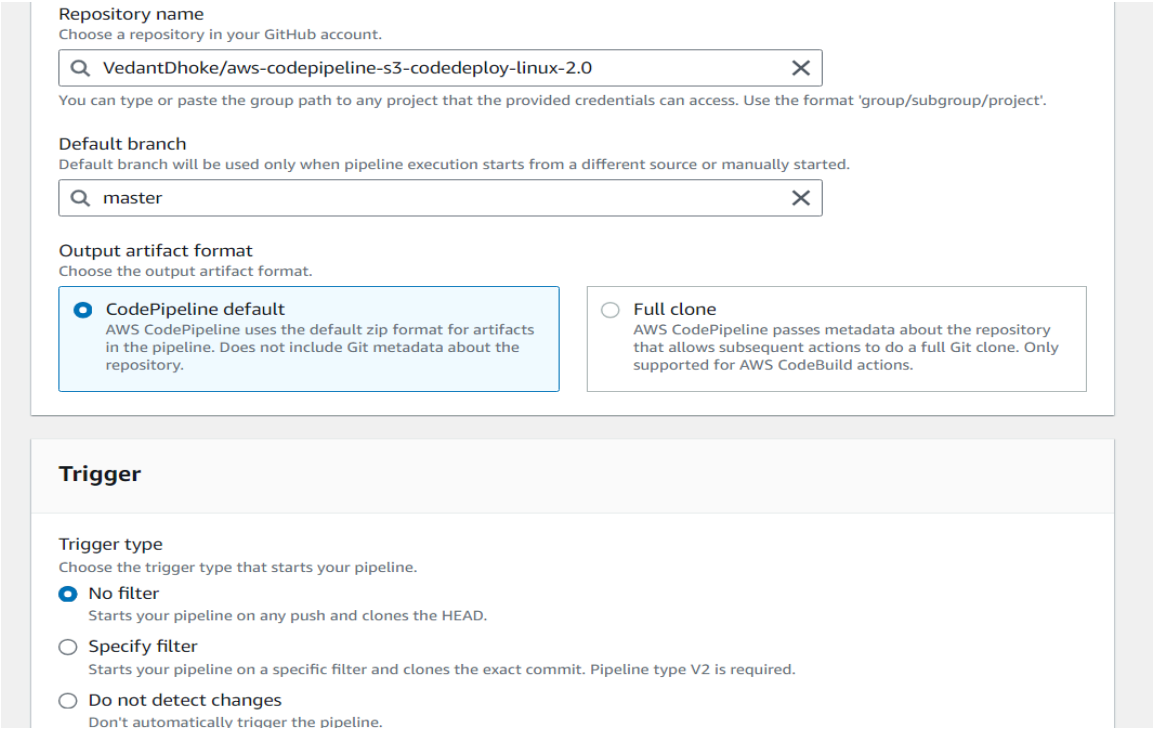


9. In the Source Stage, Choose GitHub(Version 2) and click on Connect to GitHub. You'll need your GitHub credentials to authorize and integrate AWS with your forked GitHub repository.

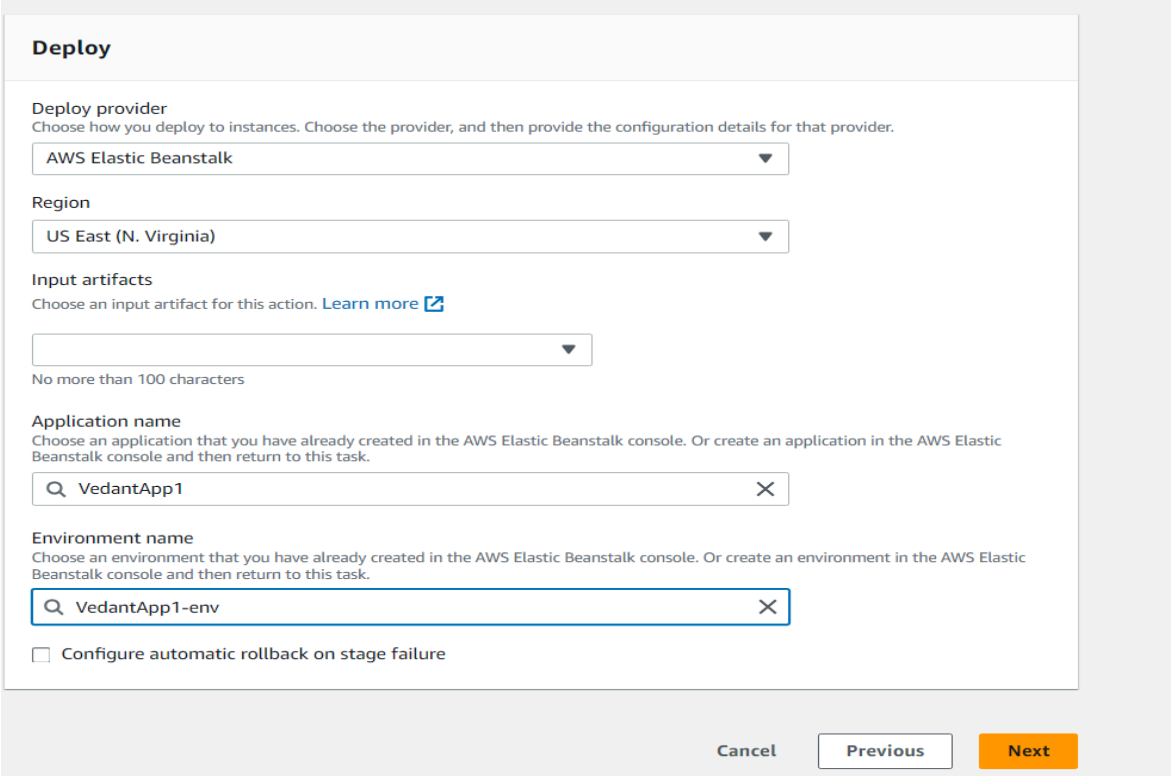




10.Next, select the forked repository and the appropriate branch from the search box. Click Continue, then skip the build stage and proceed directly to the Deployment stage.



11. Select Deploy and specify the application name and environment name, then click "Next." Review the details and create the pipeline.



12. Review all the settings and click on create pipeline.

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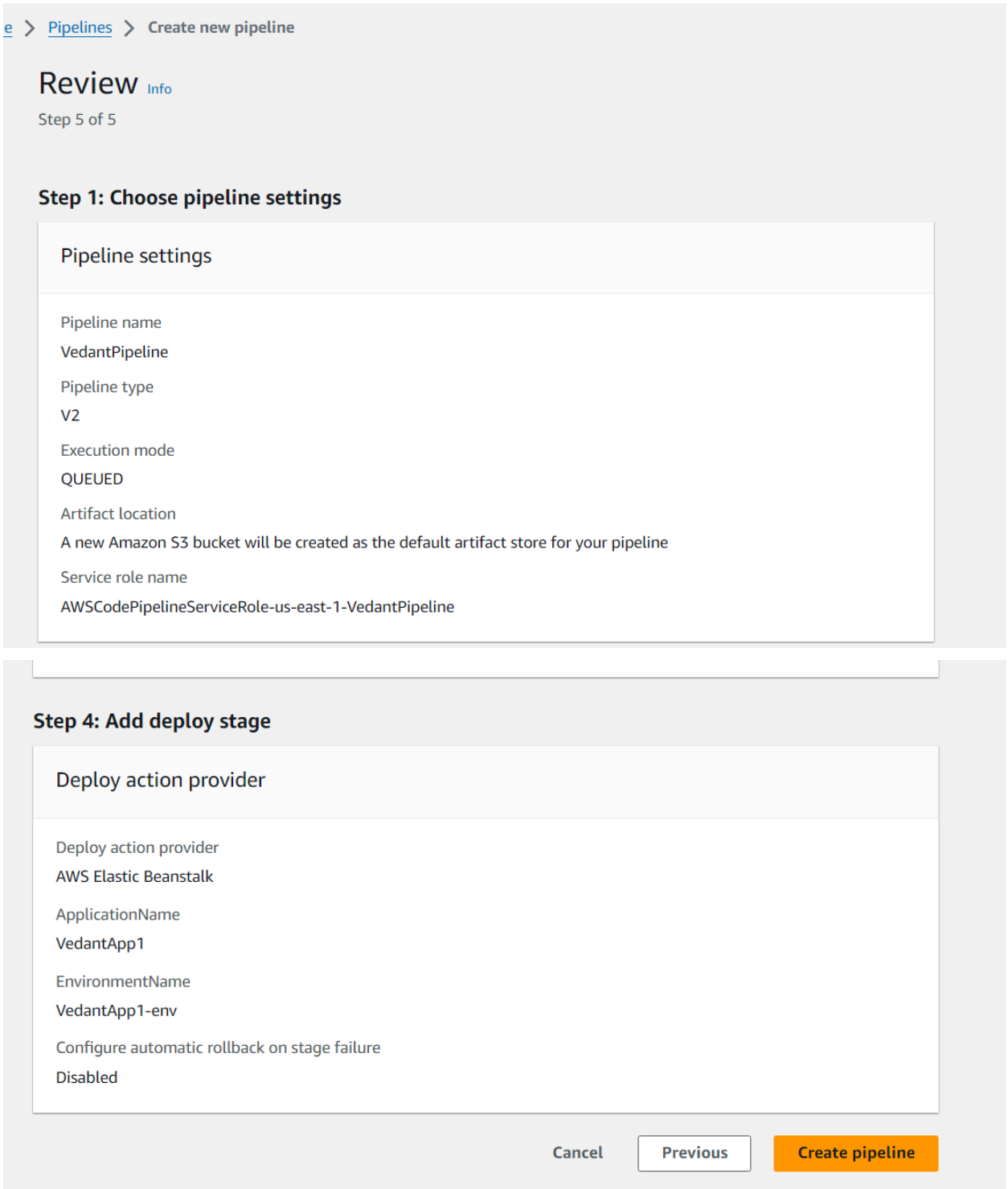

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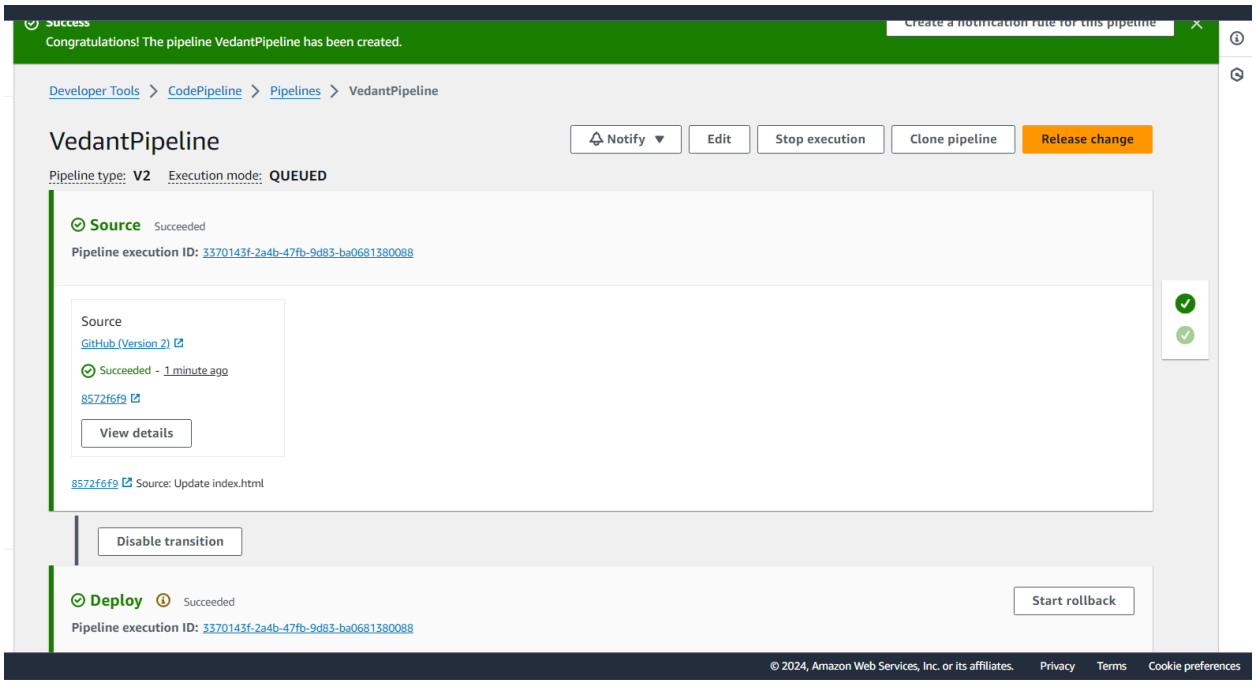
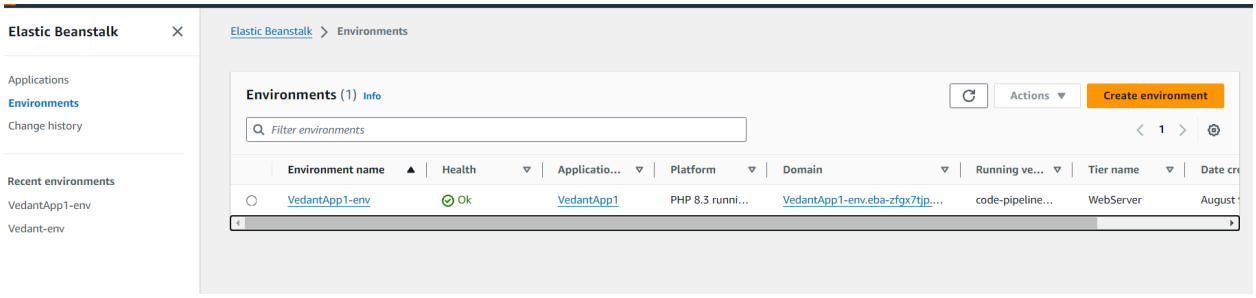
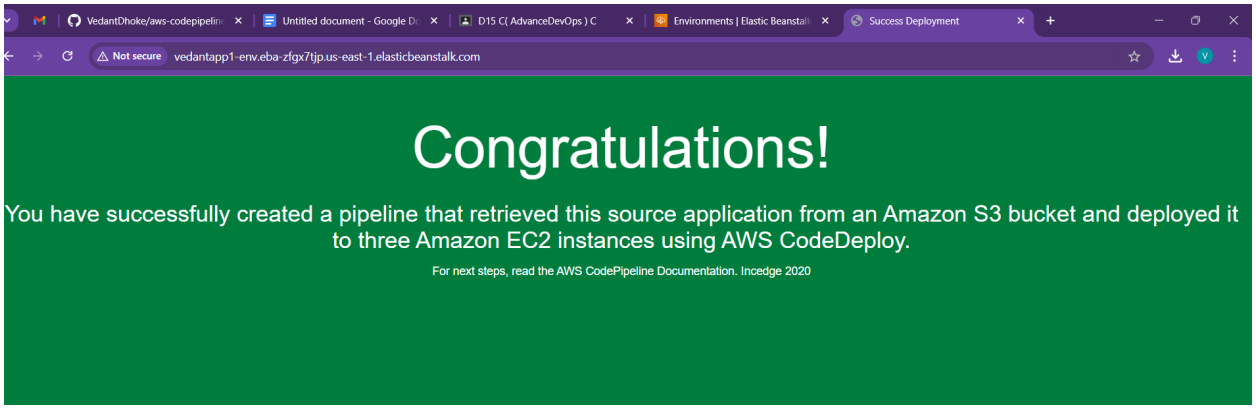
13. We can see our pipeline is successfully created. We need to ensure that both stages i.e Source and Deploy shows Succeeded as shown below.



14. Later Click on the URL which is provided in the Domain. It will navigate us to our website.



15. This is our sample website.



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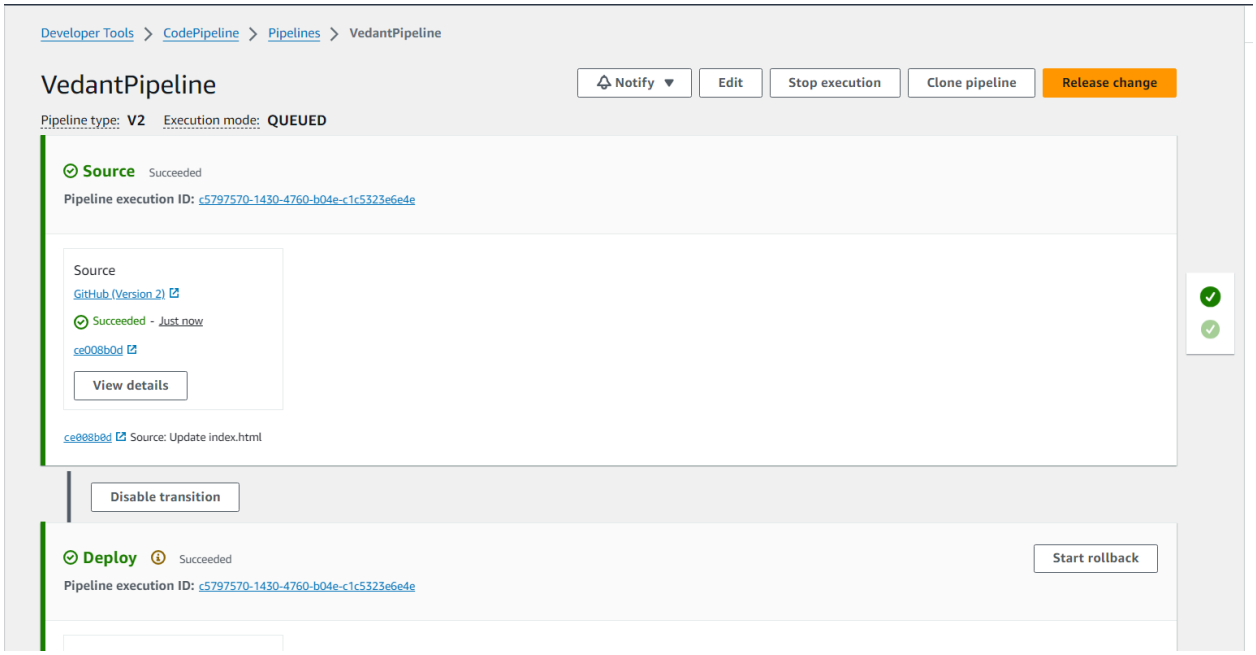
15. Committing the changes to update app .

1. Update the HTML file in your forked repository.

2. In GitHub, open index.html and modify the heading or paragraph tag. Commit the changes directly on GitHub.

3. Observe the real-time updates in the Source panel after committing.

4. Once the deployment is successful, view the changes on the website using the same URL.



16. Again click on the URL and we can see our Updated App.