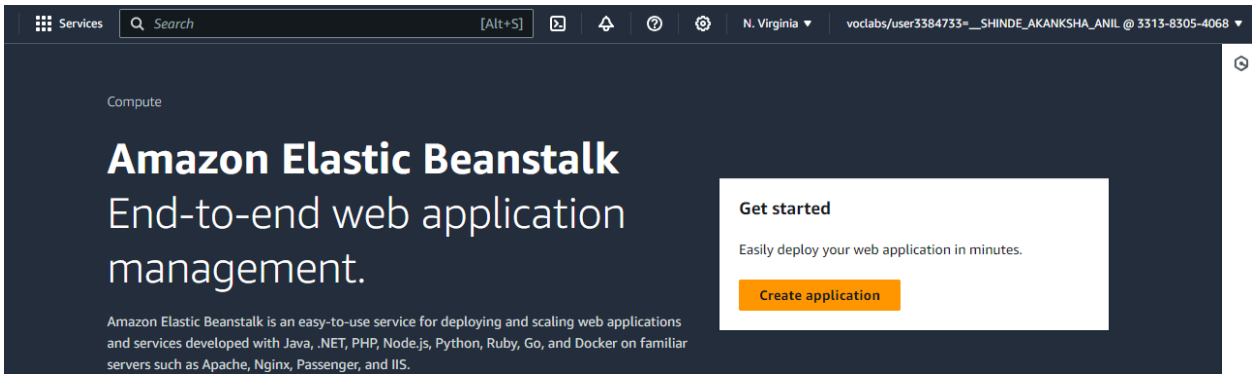
Name: Akanksha Shinde Class: D15C Roll No: 53

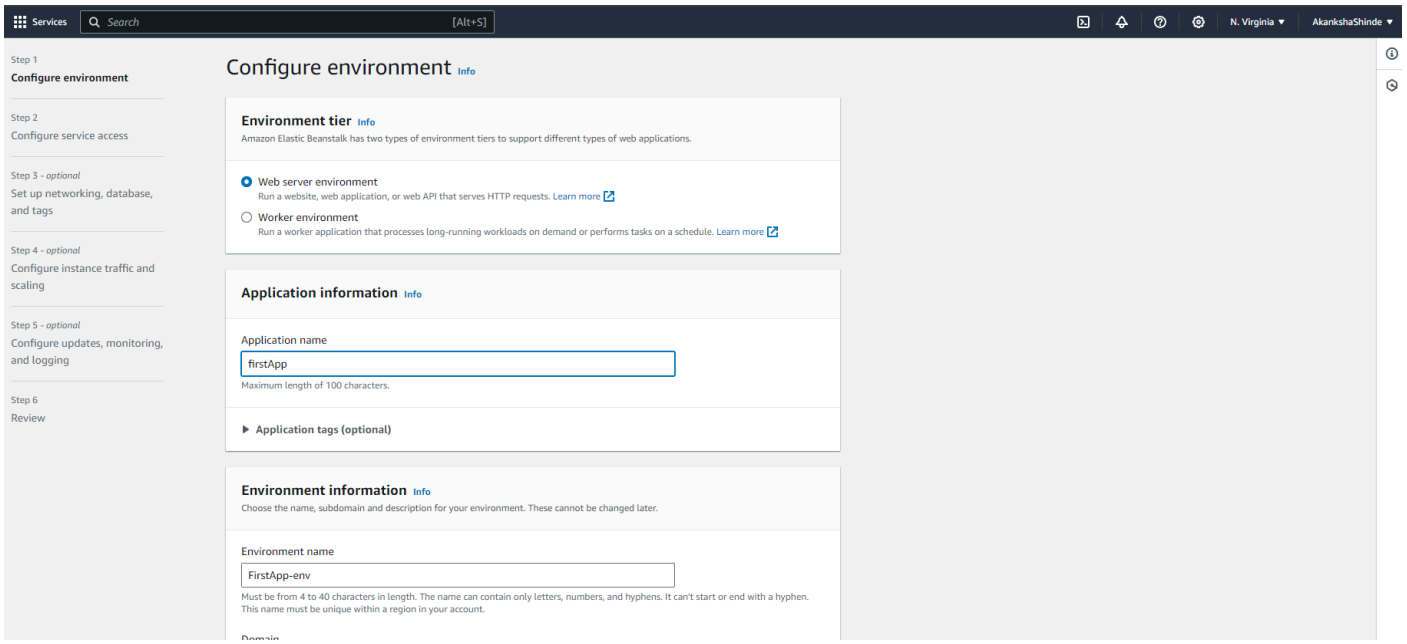
Experiment No: 2

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 up Elastic Beanstalk and name your web app.



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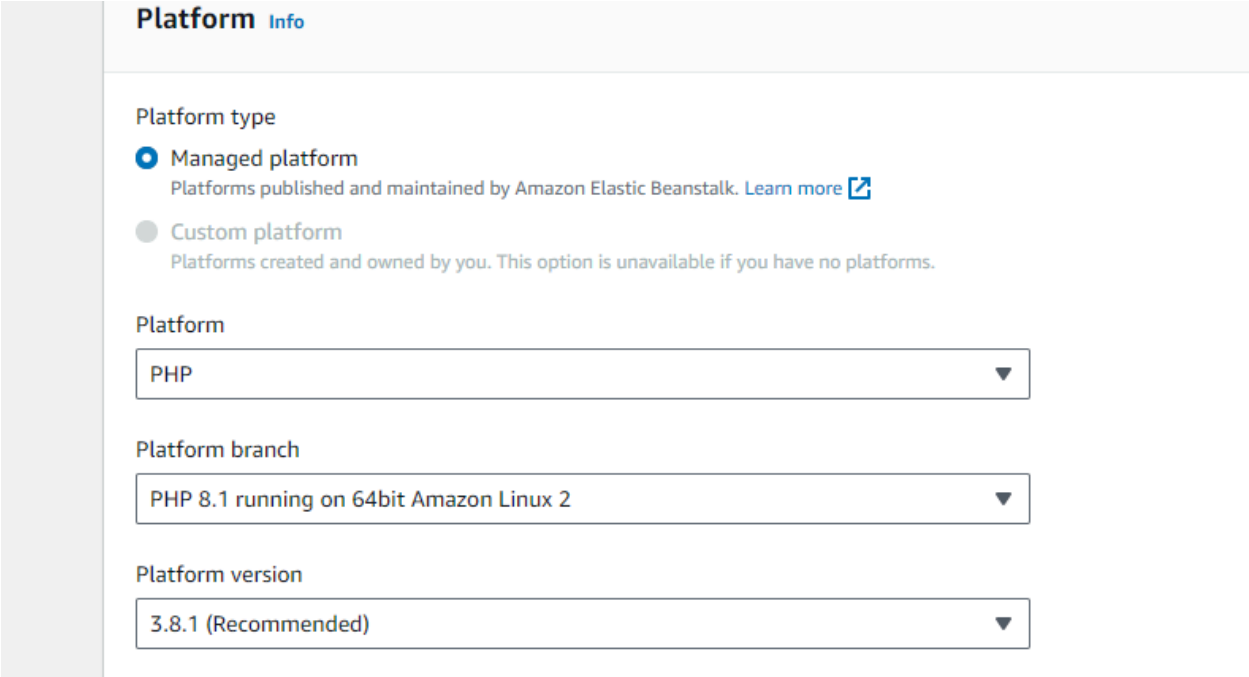
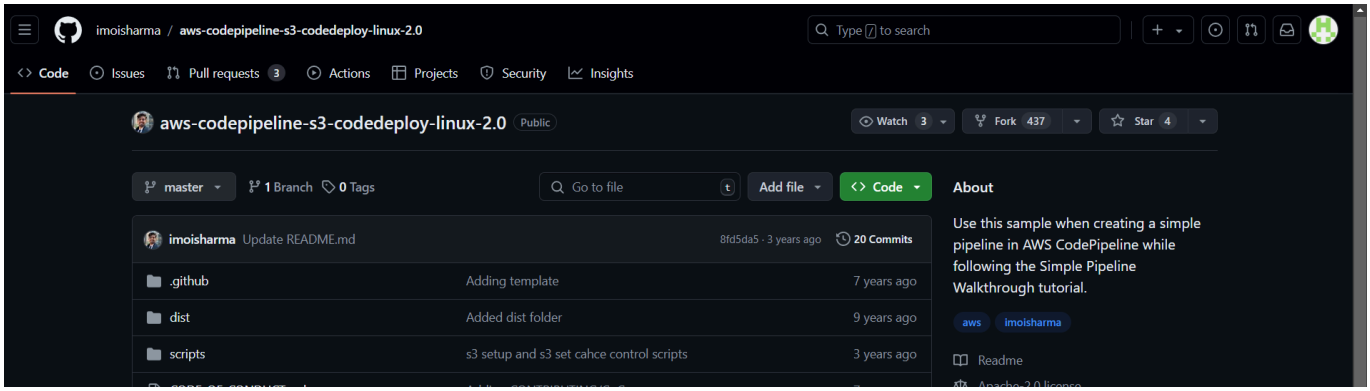
3. Choose PHP from the drop-down menu and then click Create Application.



4. Beanstalk creates a sample environment for you to deploy your application. By default, it creates an EC2 instance, a security group, an Auto Scaling group, an Amazon S3 Bucket, Amazon CloudWatch alarms and a domain name for your Application.

Step 2: Get a copy of your sample code



In this step, we will get the sample code from this GitHub Repository to later host it. The pipeline takes code from the source and then performs actions on it.
For this experiment, as a source, we will use this forked GitHub repository. We can alternatively also use Amazon S3 and AWS CodeCommit.

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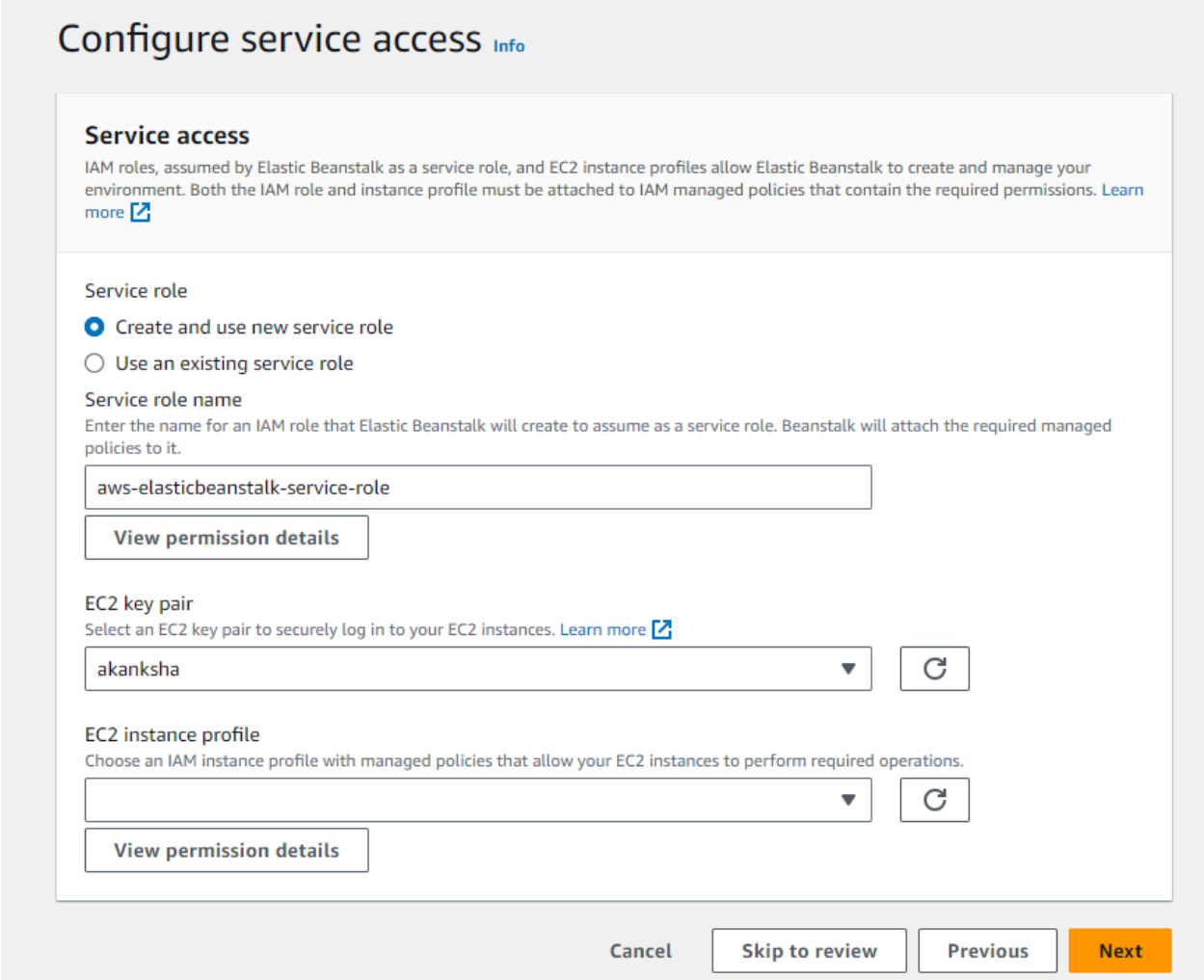
Go to the repository shared above and simply fork it.



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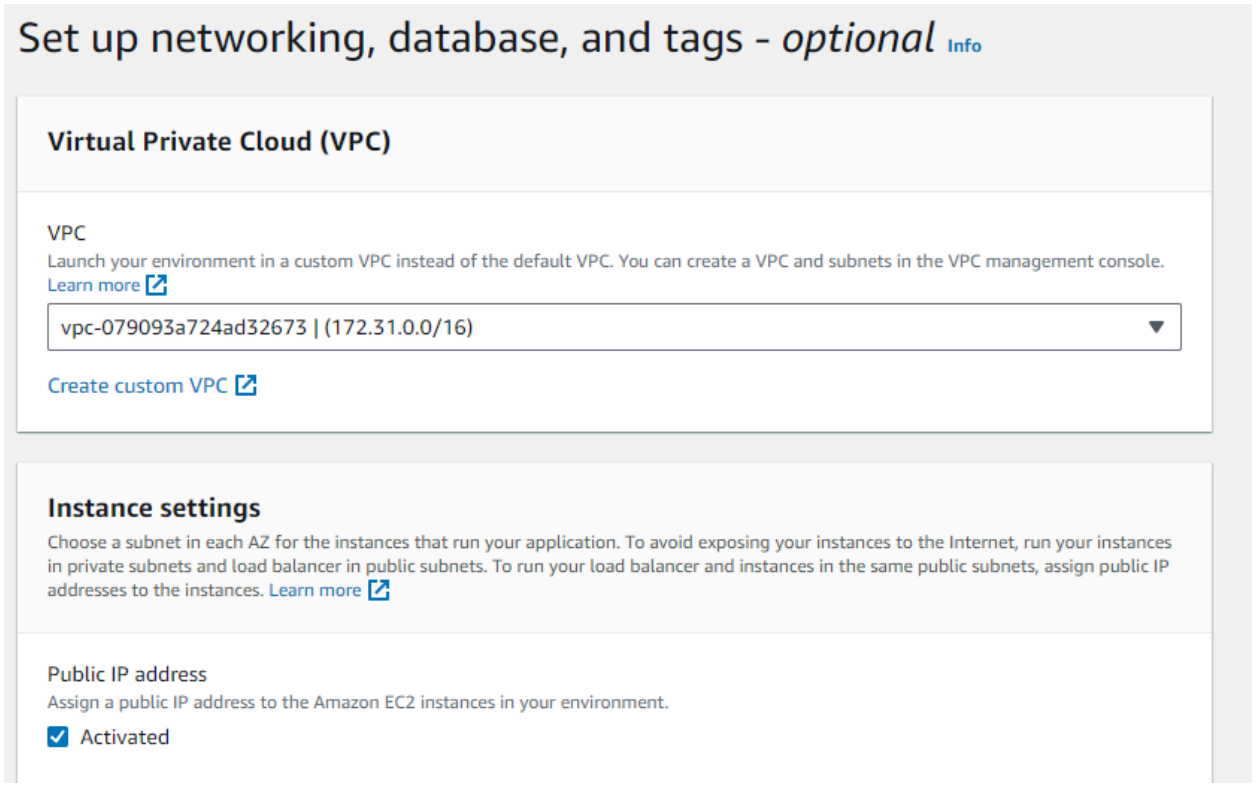

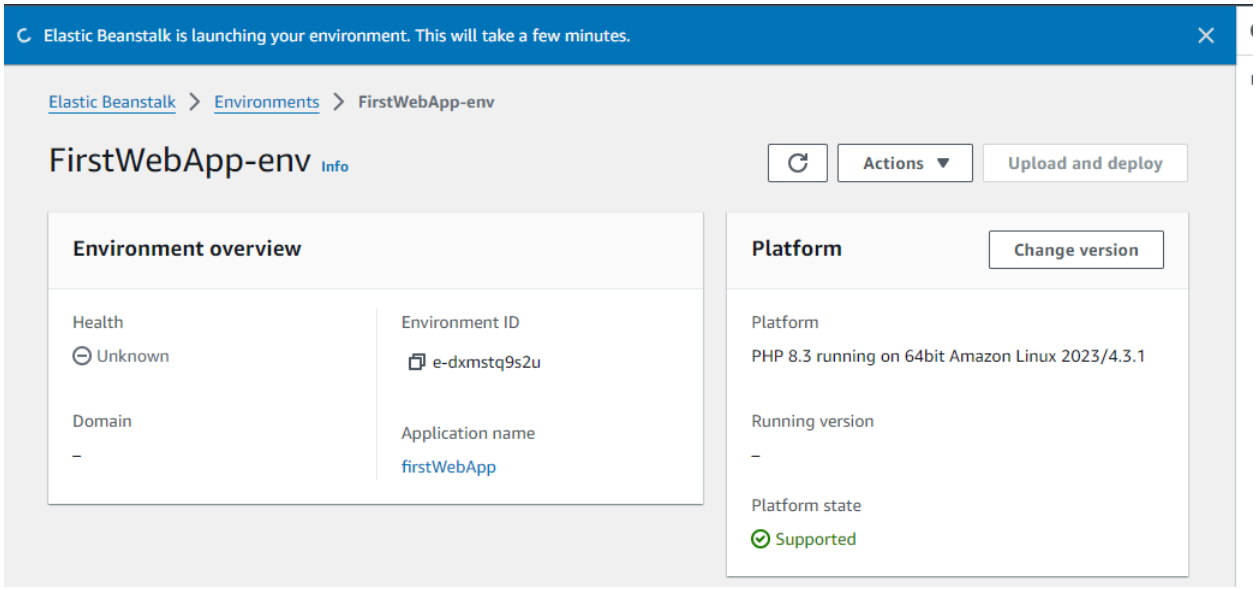

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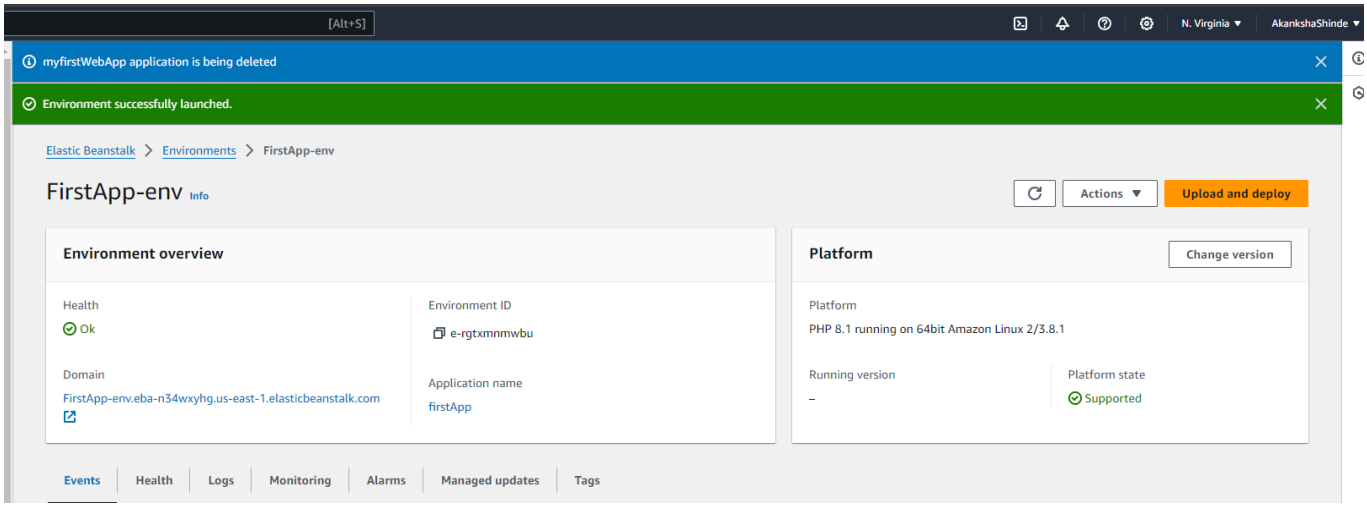
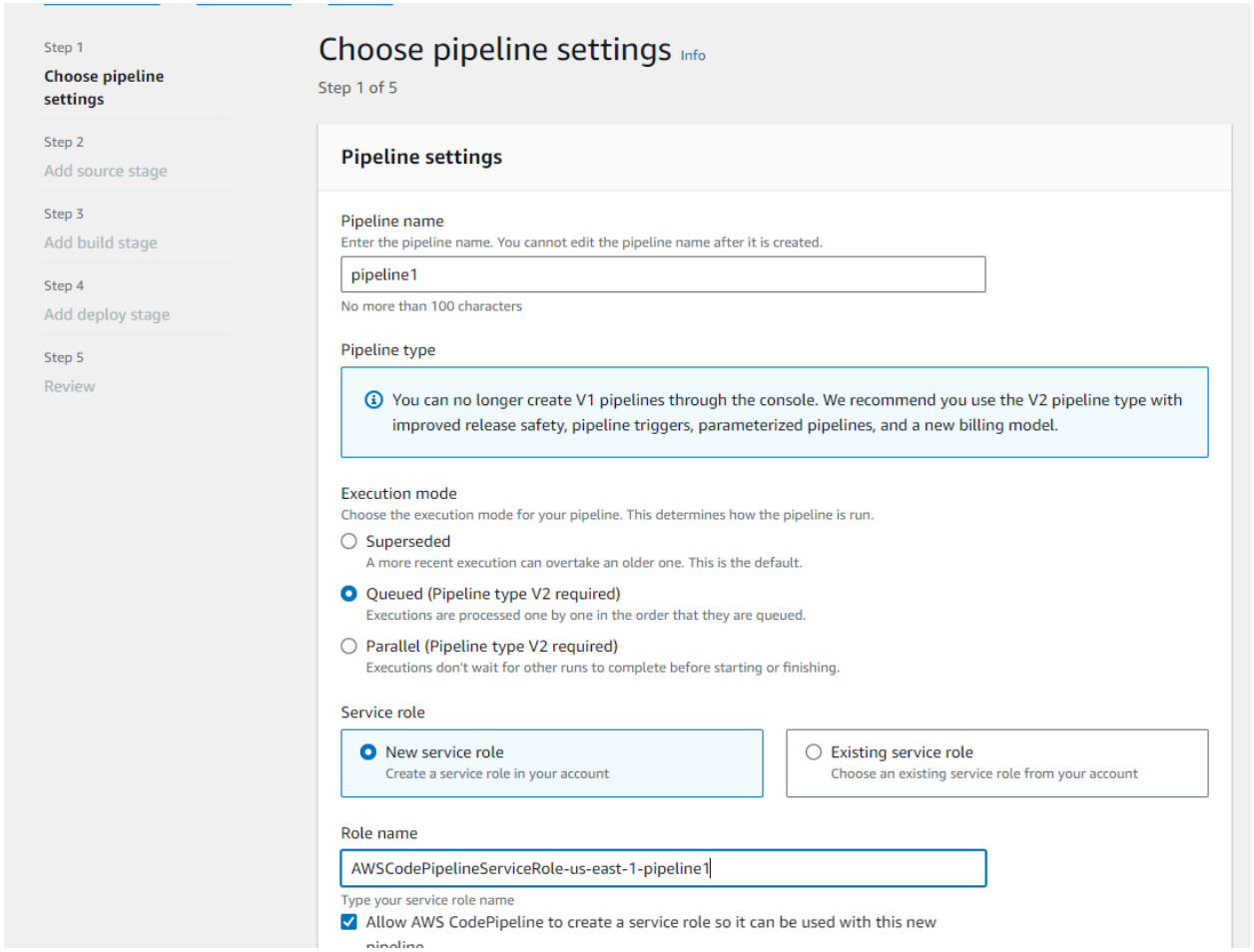


Now to create pipeline,

1. Go to AWS Developer Tools -> CodePipeline and create a new Pipeline.

Fill in the initial settings first.



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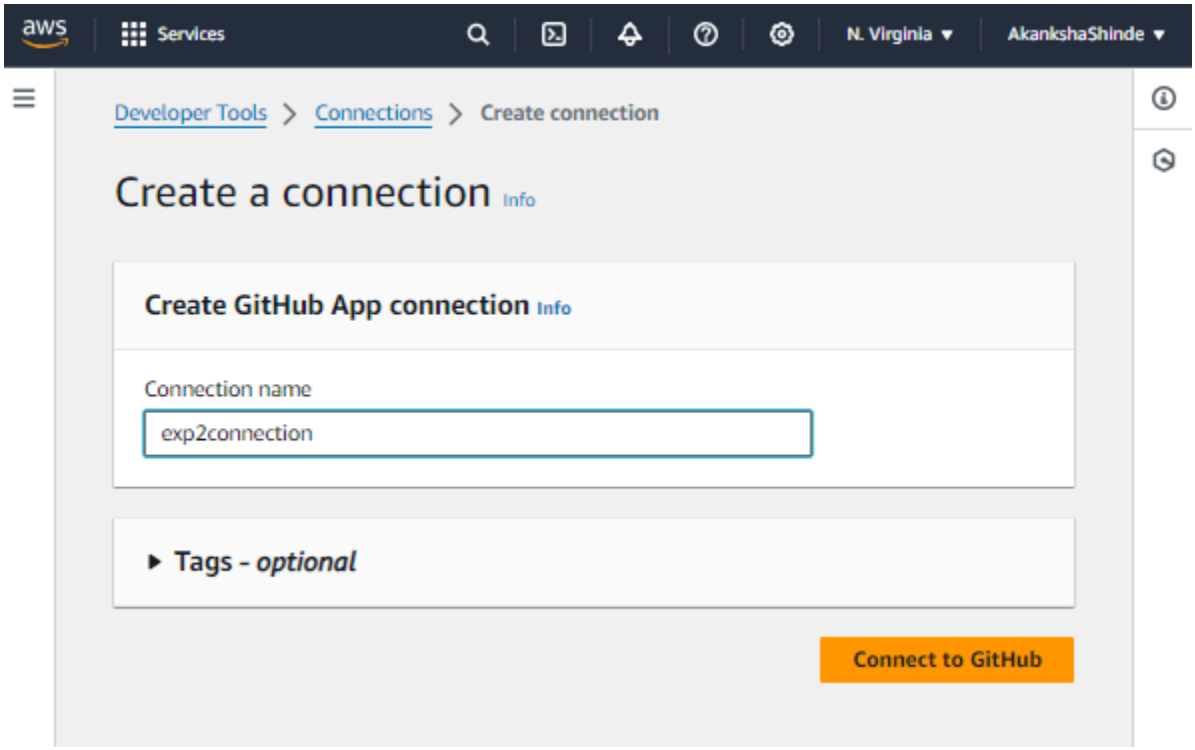

2. In the source stage, choose GitHub v2 as the provider, then connect your GitHub account to AWS by creating a connection. You'd need your GitHub credentials and then you'd need to authorize and install AWS on the forked GitHub Repository.

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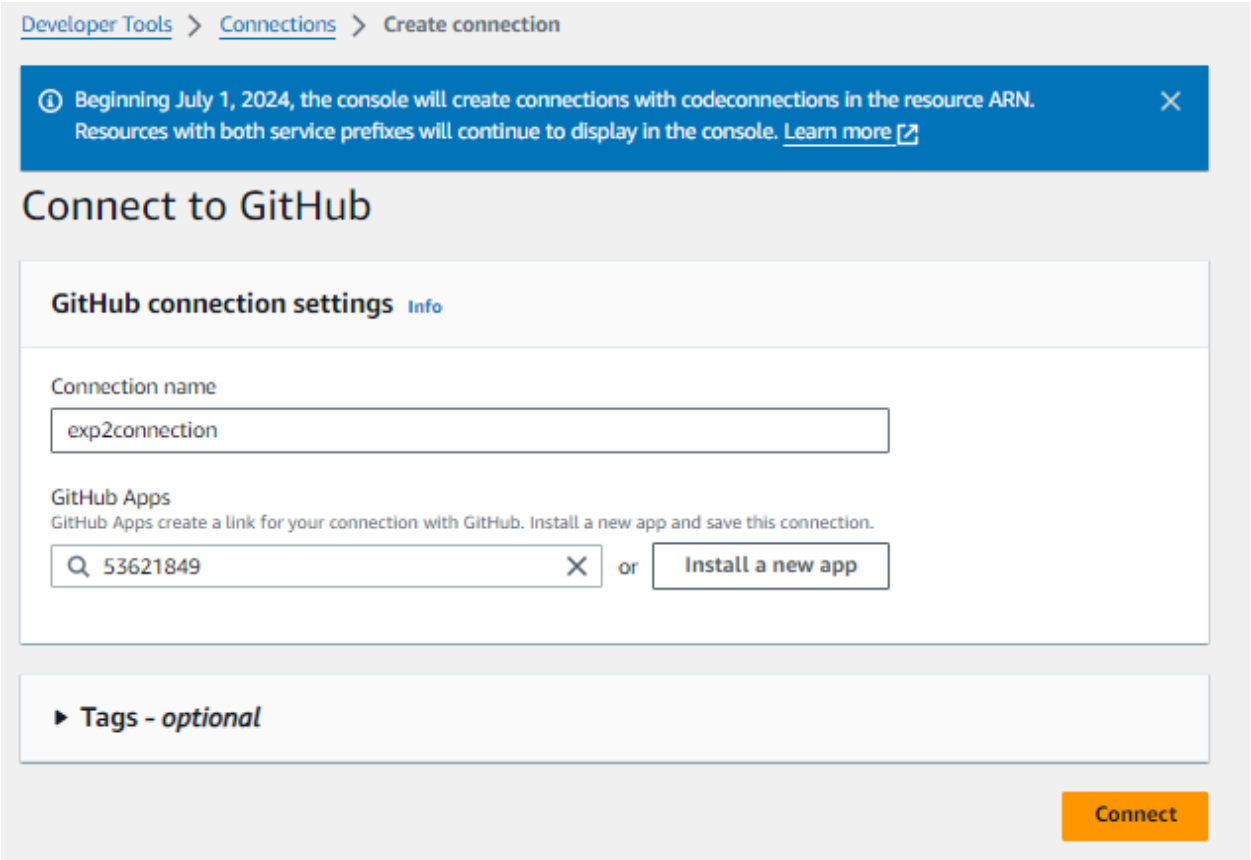

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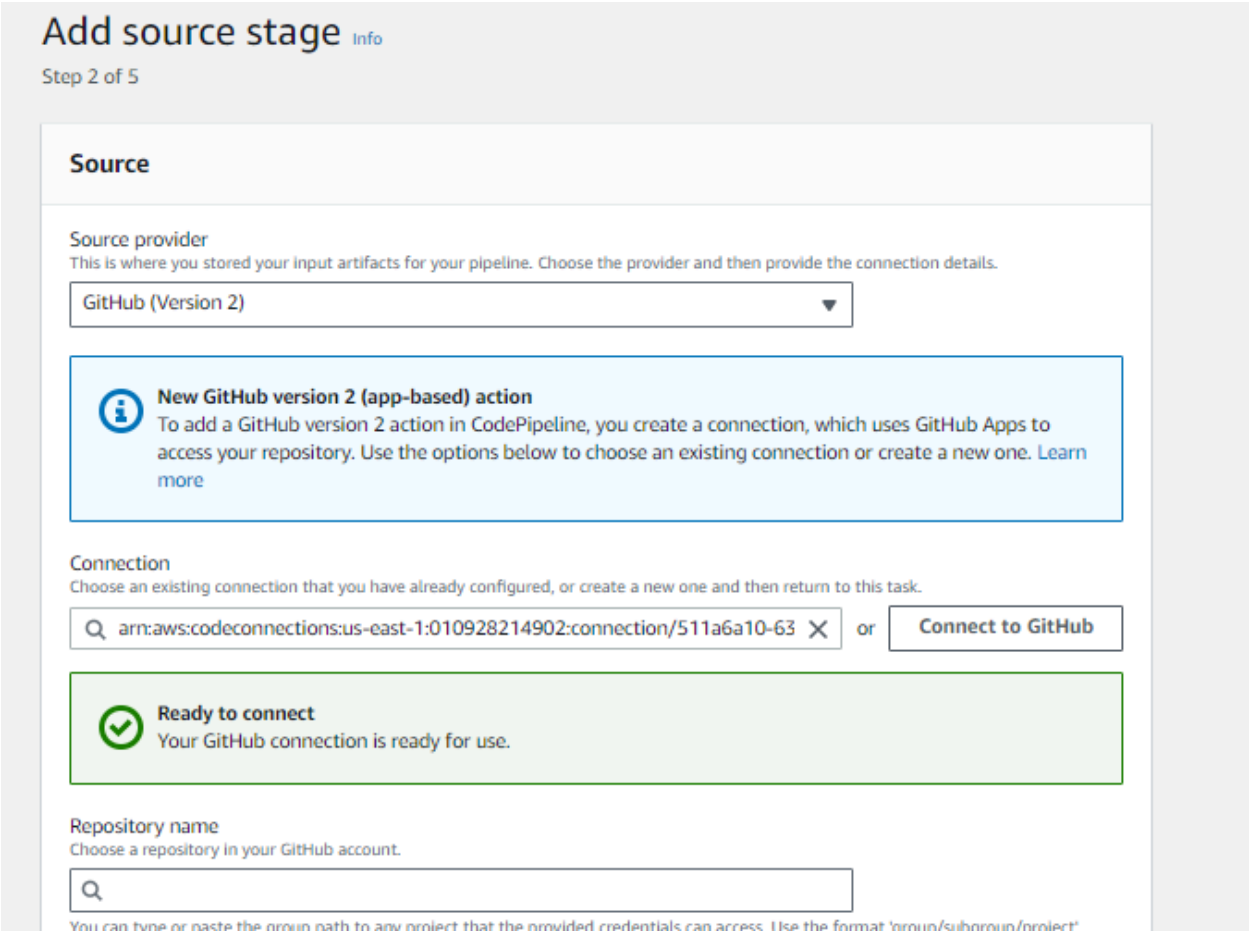

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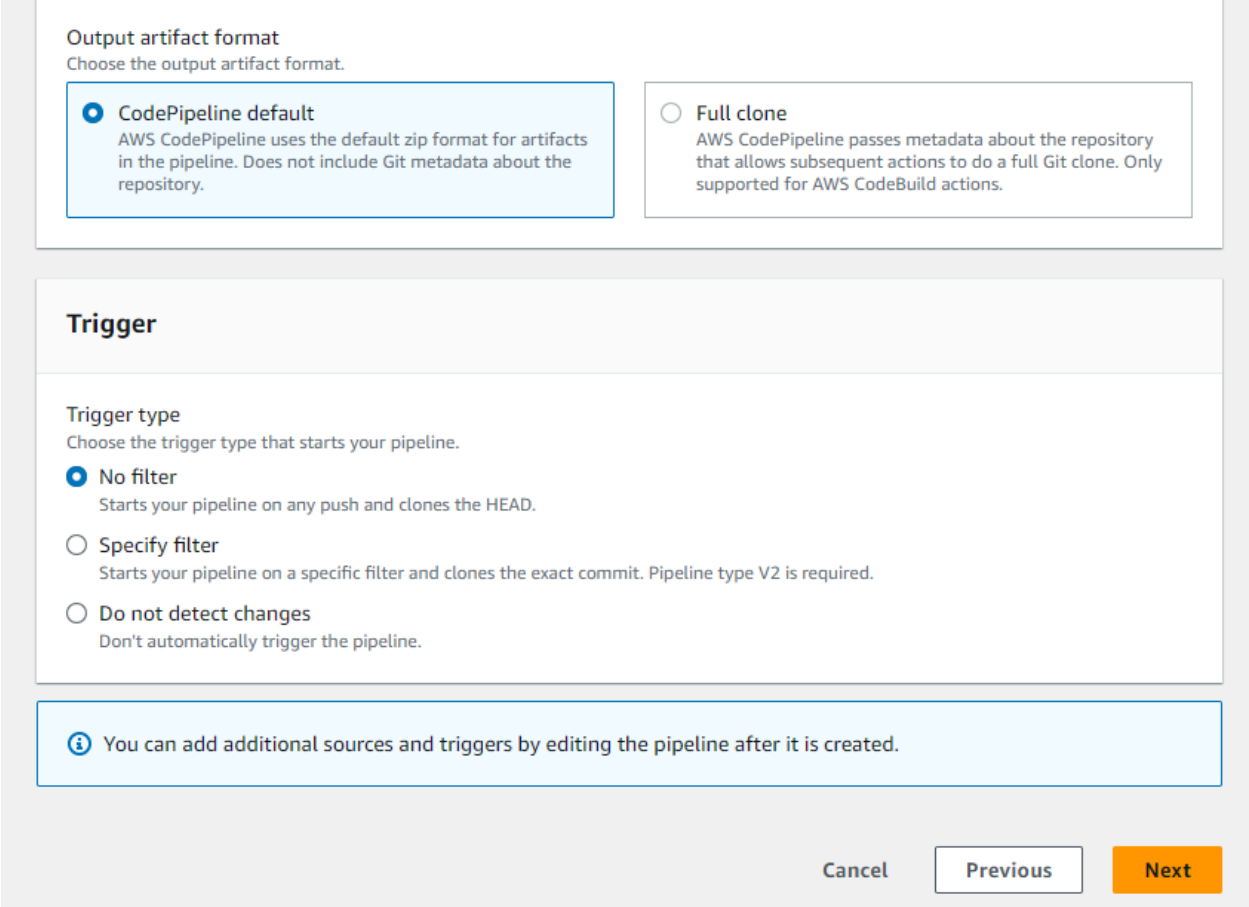
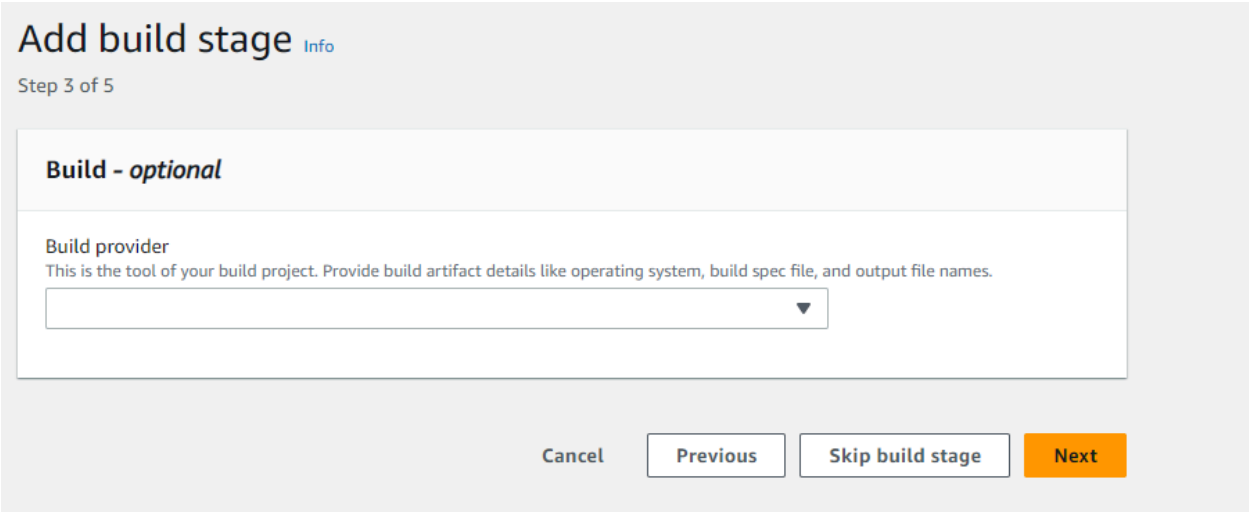


3. Then, simply choose this forked repository and the branch which you will be able to find in the search box. After that, click Continue and skip the build stage. Proceed to the Deployment stage.



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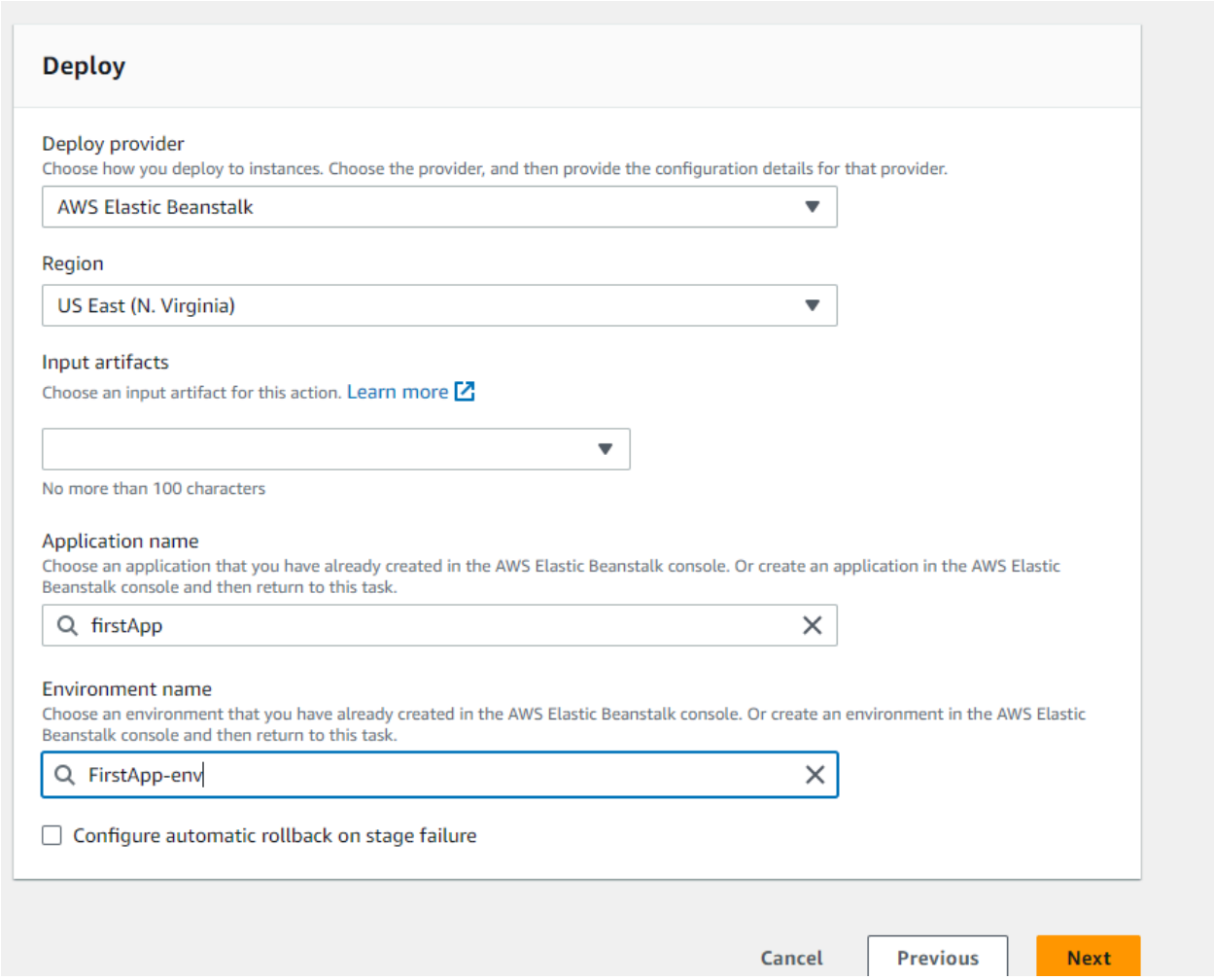
Step 4: Deployment

1. Choose Beanstalk as the Deploy Provider, same region as the Bucket and Beanstalk, name and environment name. Click Next, Review and create the pipeline.



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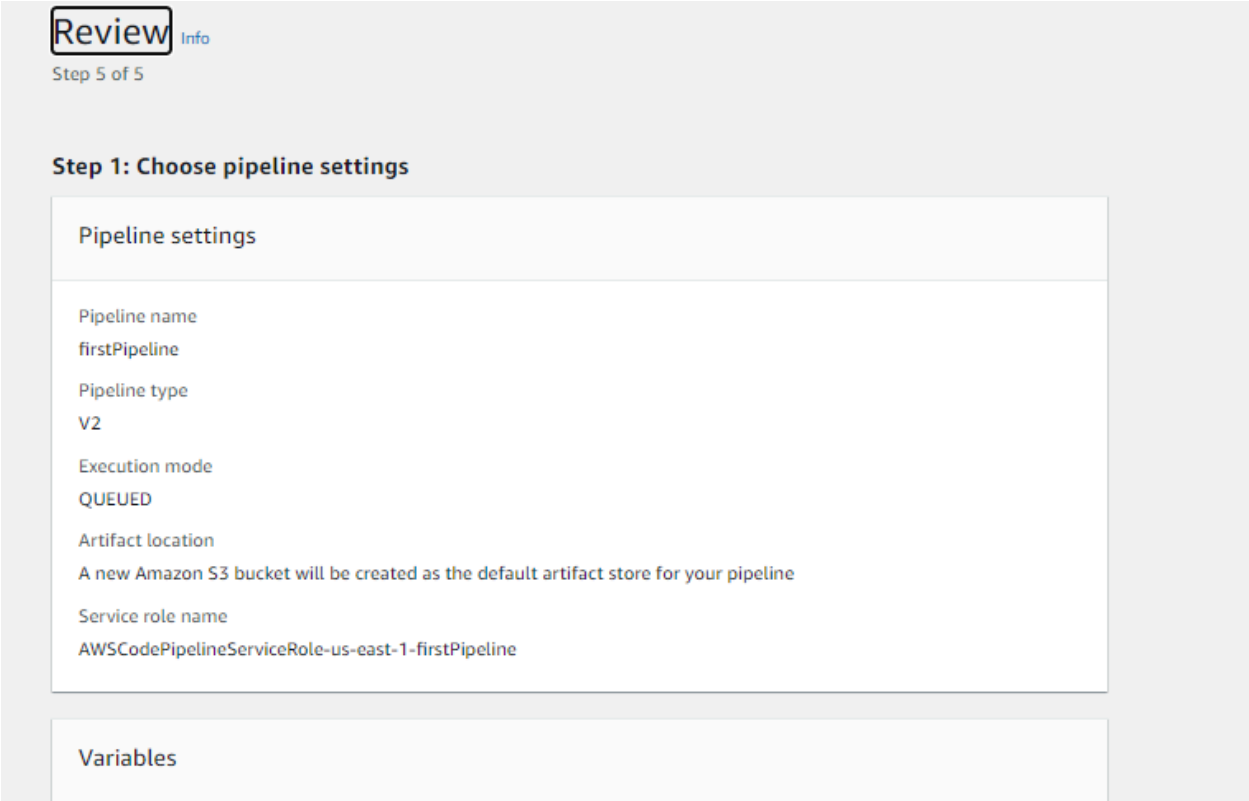
2. Review all the settings and click on create pipeline



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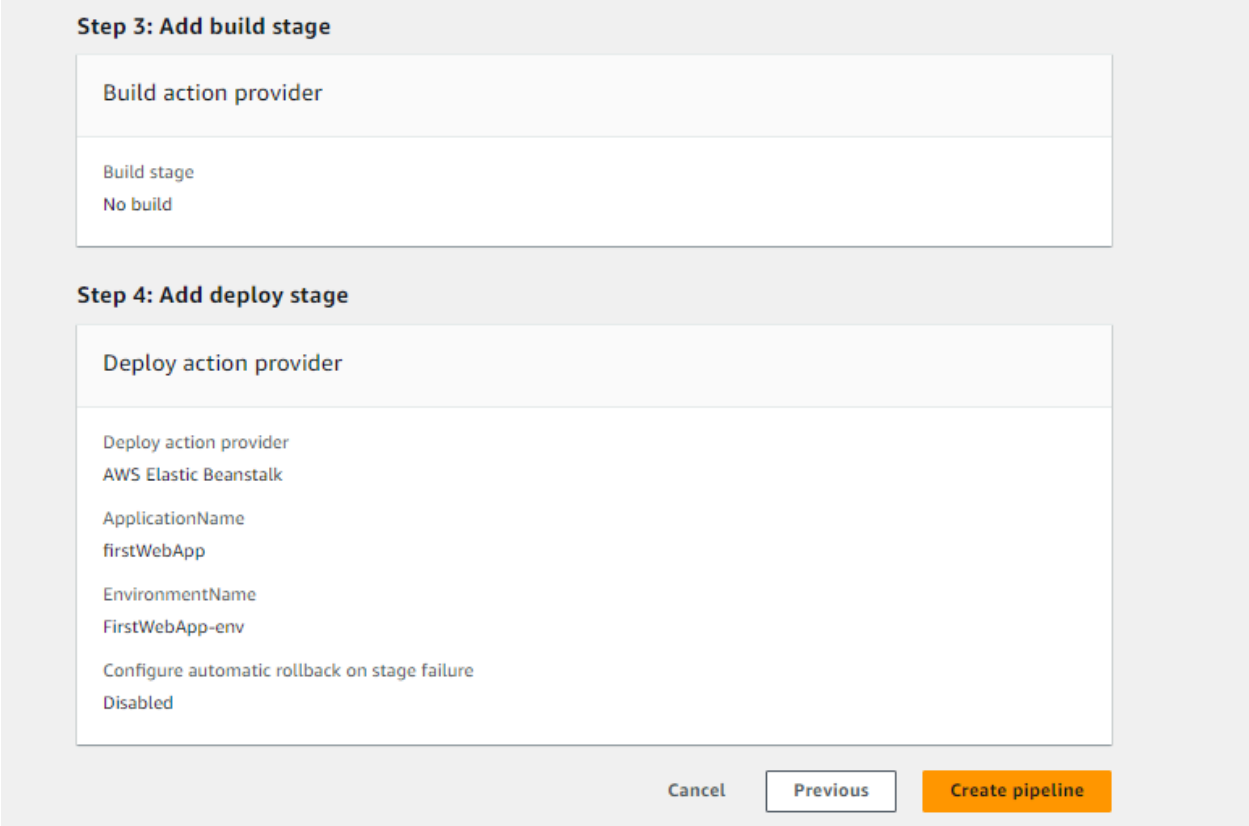
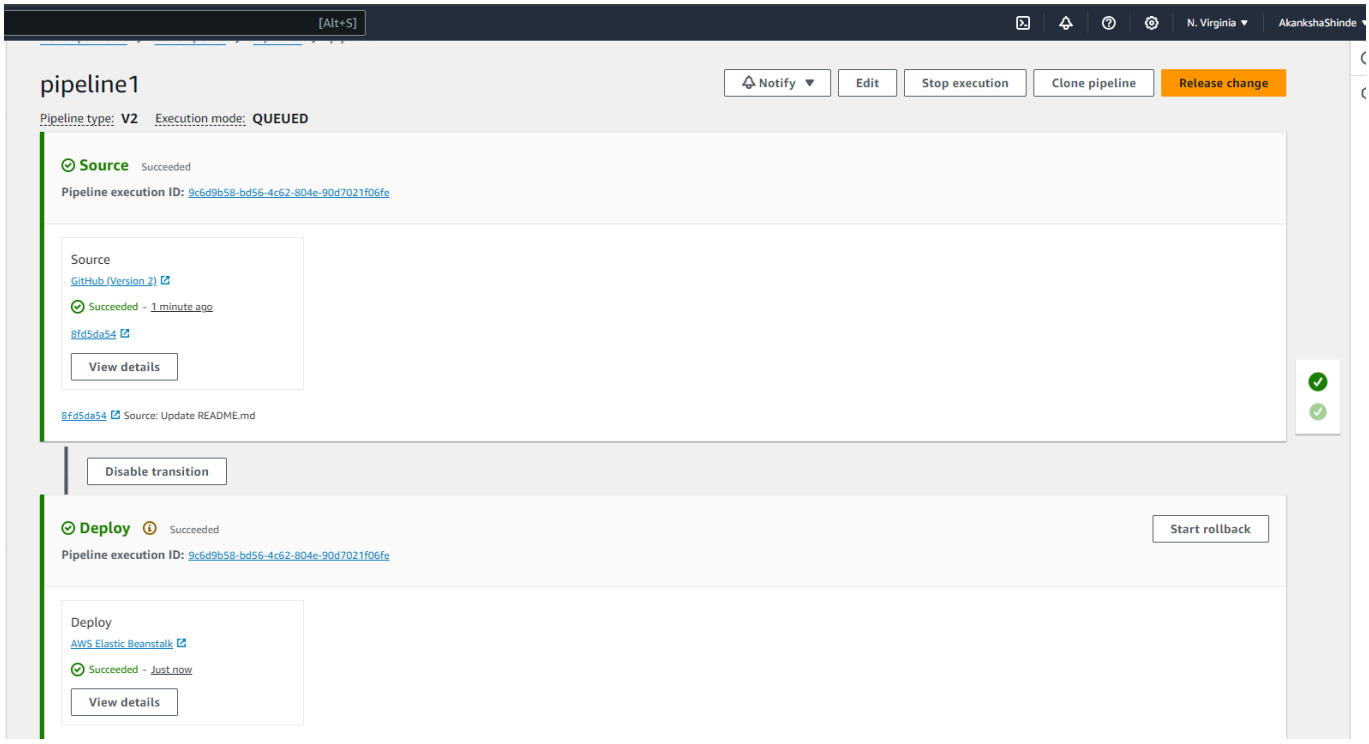


Finally you will be able to see this screen where you can infer the code has been deployed successfully.



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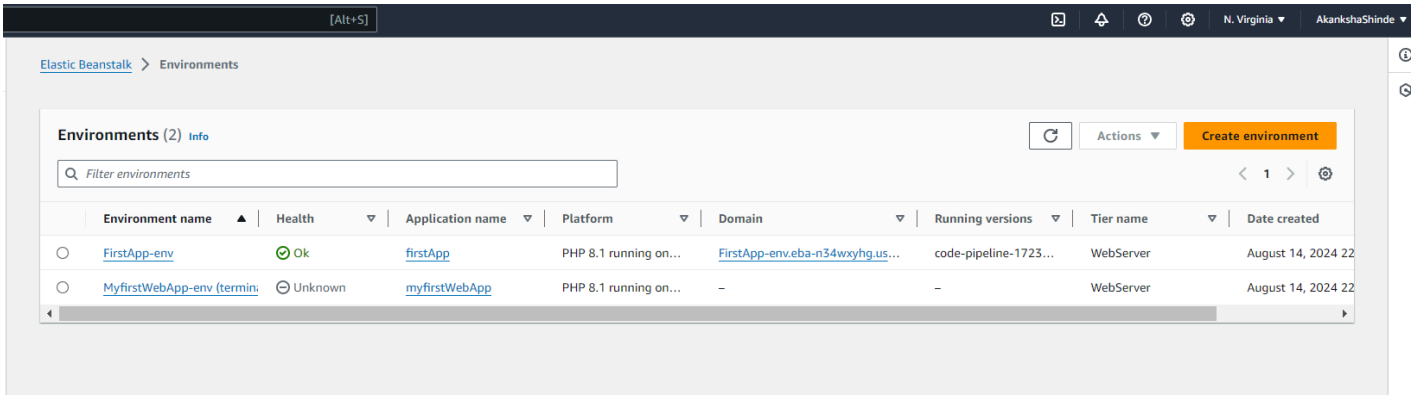
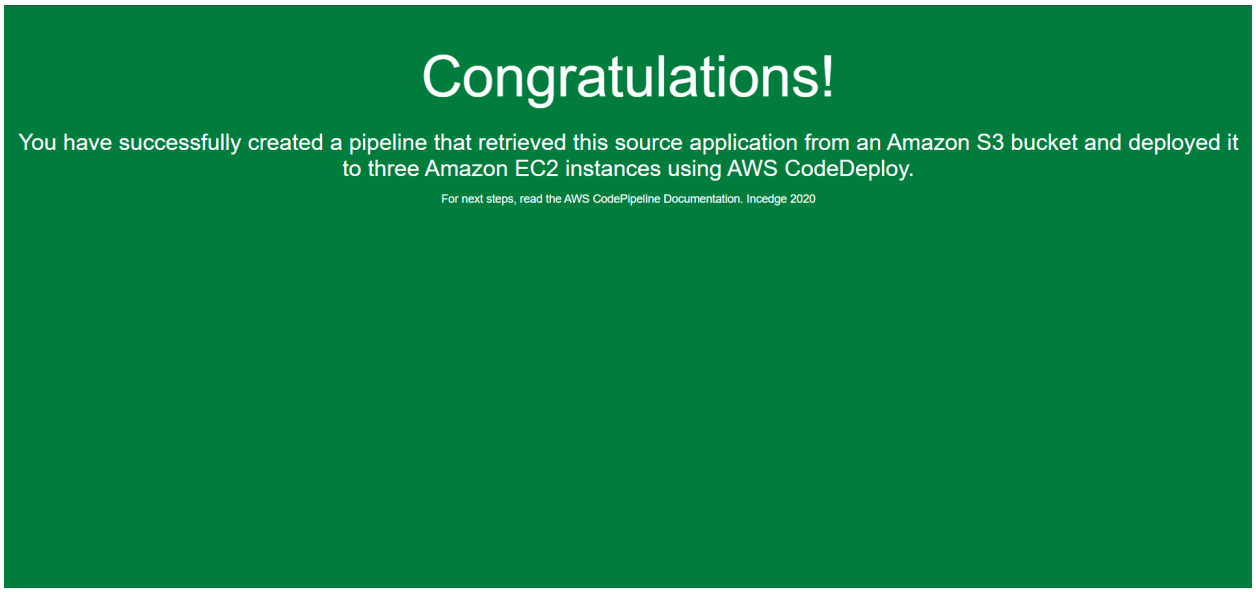
In a few minutes, we will have our pipeline created. Once we have the success message on the Deploy part, we can go ahead and check our URL provided in the EBS environment.



This is the sample website we just created.



If you can see this, that means that you successfully created an automated software using CodePipeline.