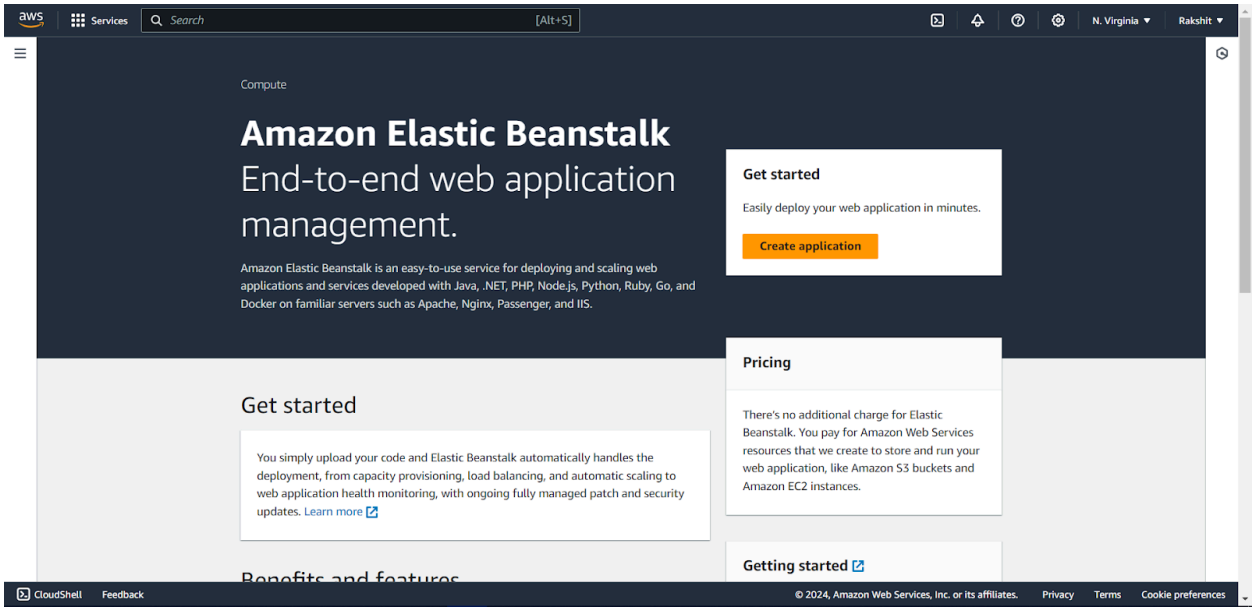
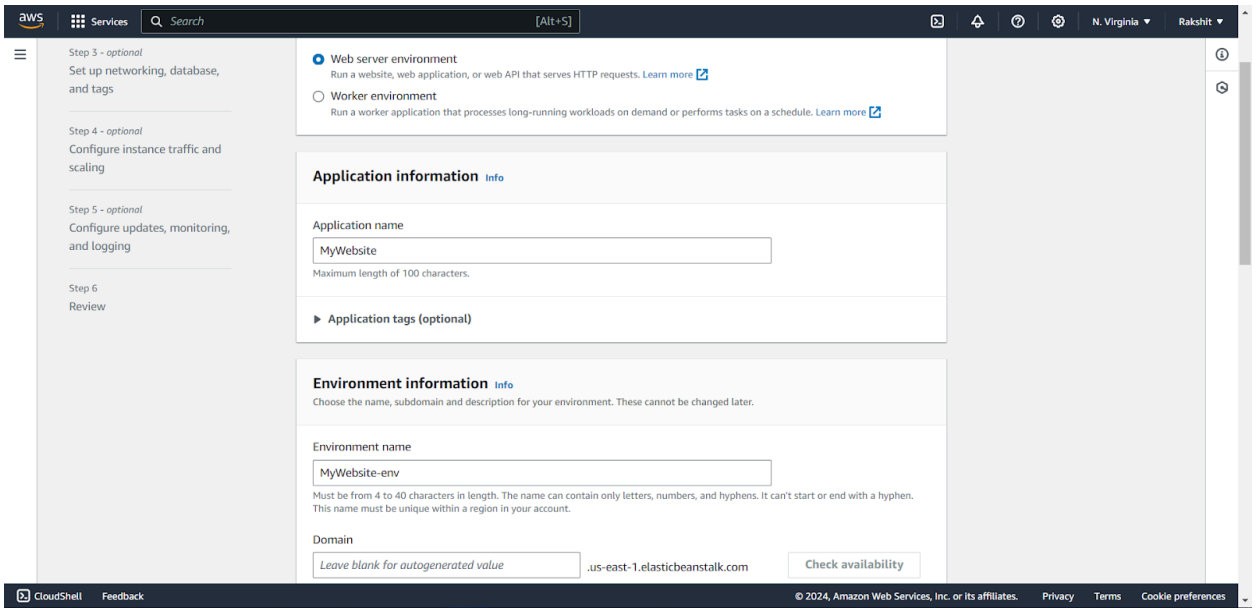
Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

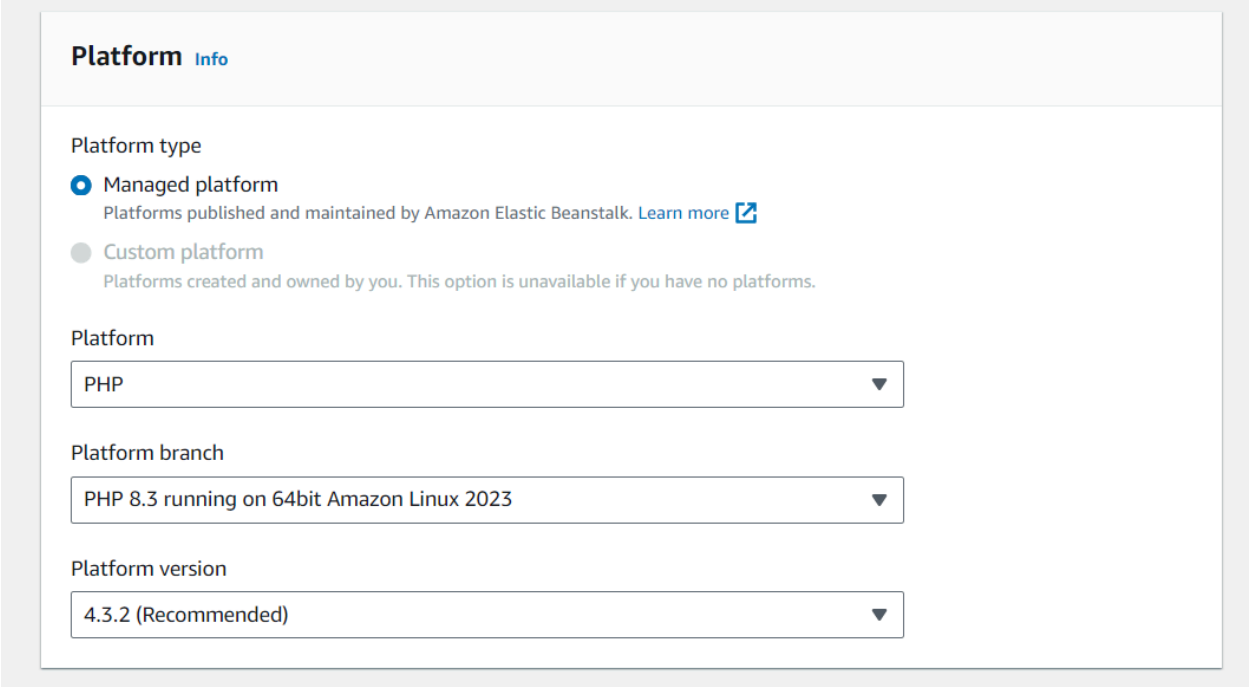
1. Login to your AWS account and search for Elastic Beanstalk.



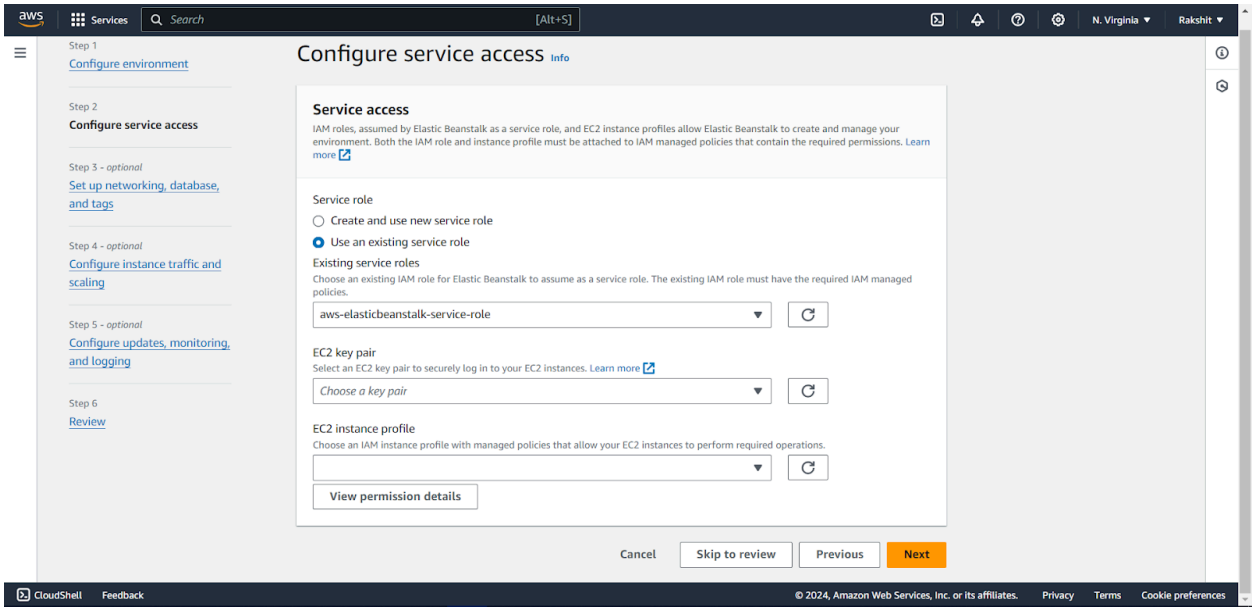
2. Click on create application. Enter your application names and other basic details.



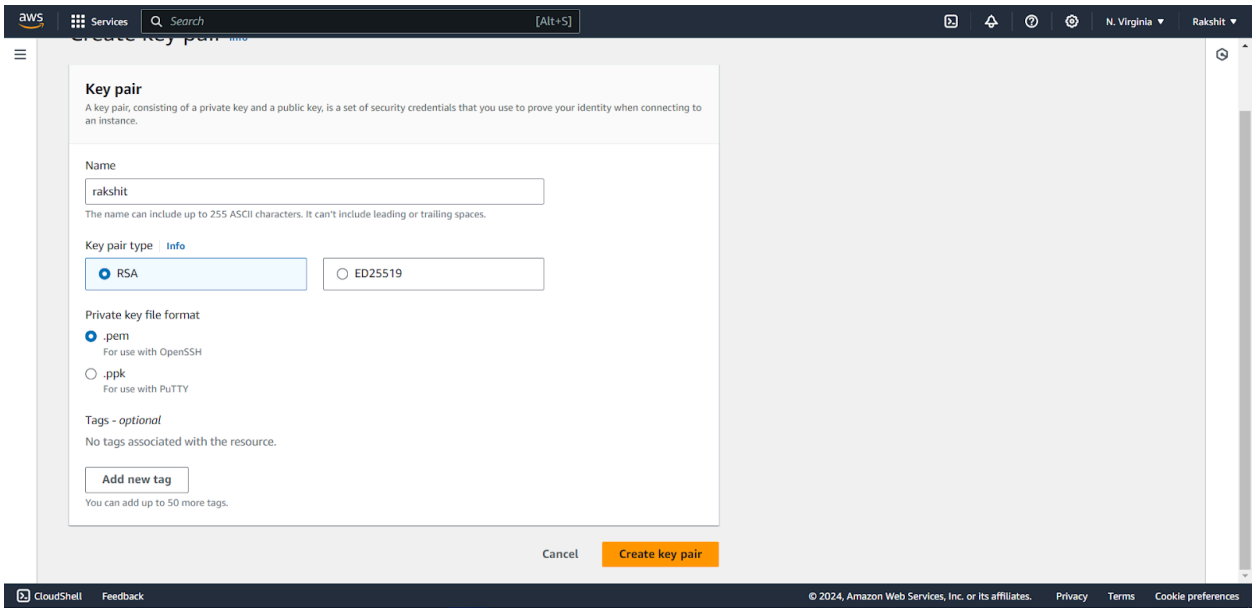
3. In the platform select PHP among other options. Platform branch and platform version will be entered automatically.



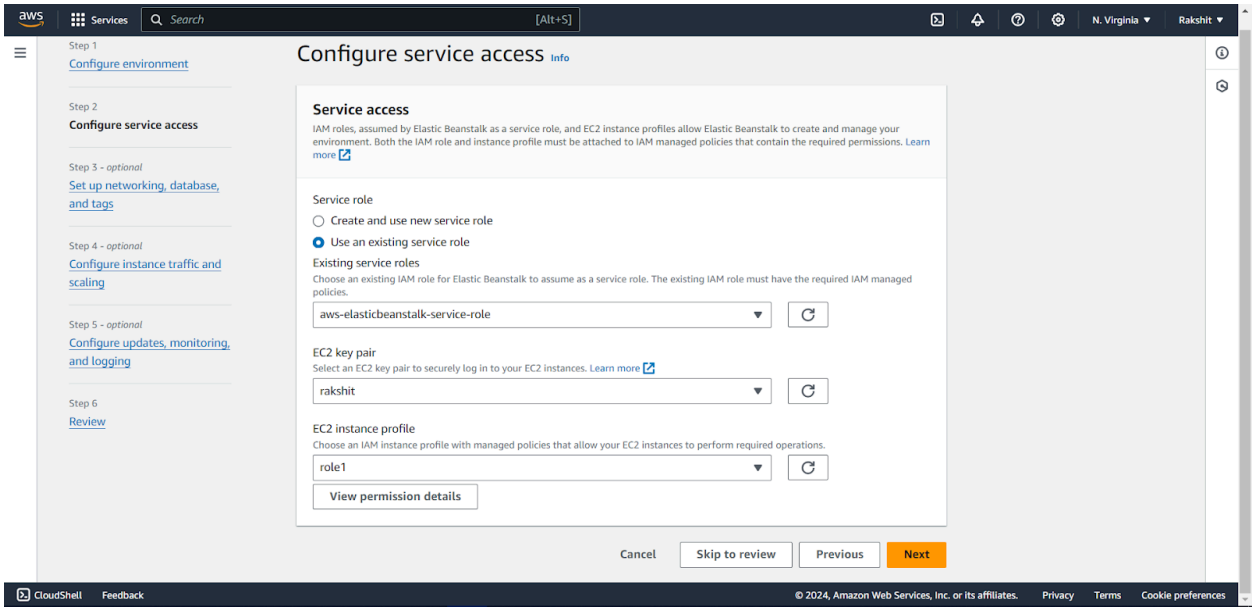
4. Keep the other setting to default and click on next. In service access click on “Use an existing service role”.



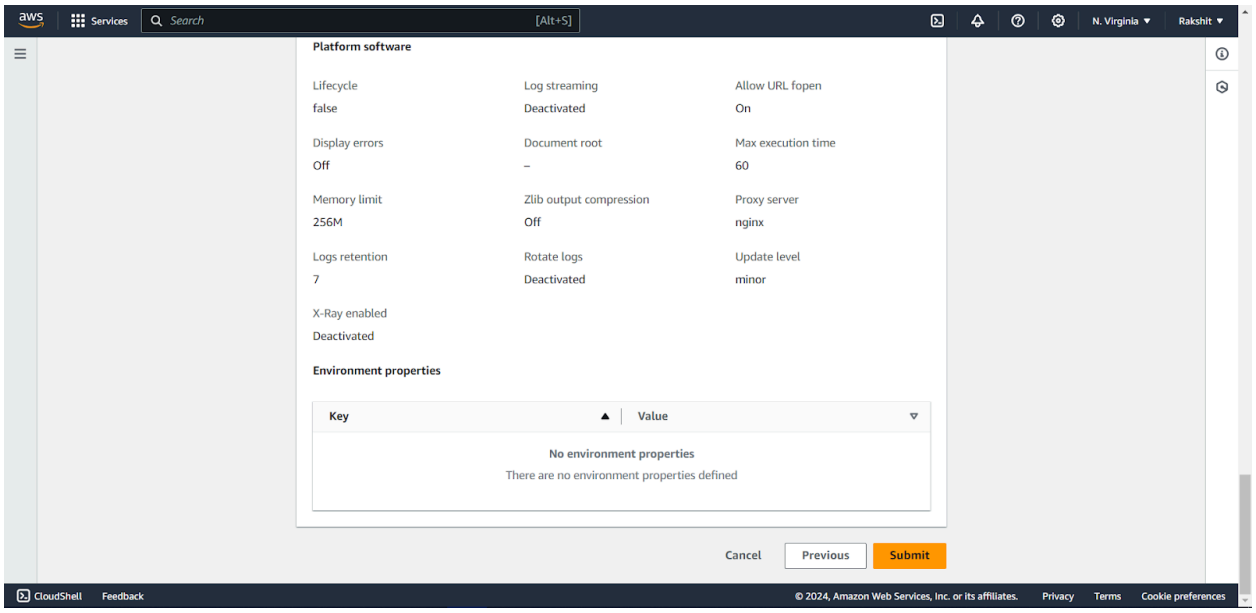
5. Go to EC2 service and click on Key pair to create a new key pair. Give the key pair a name and select the type as RSA. For private key file format select .pem.

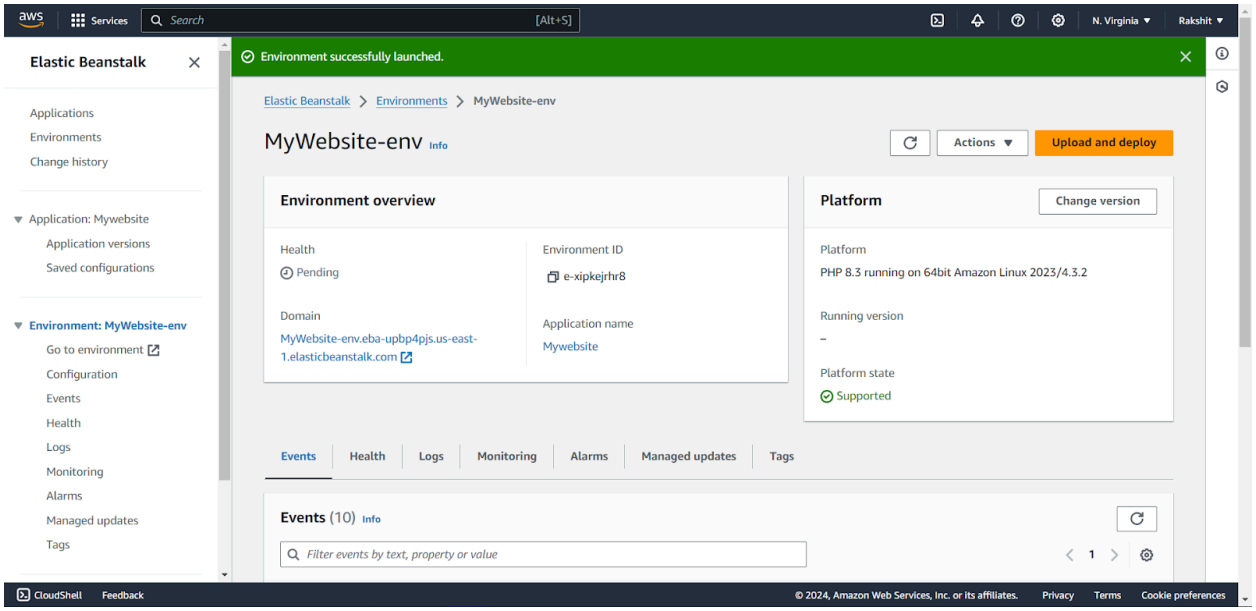


4. Come back to Elastic Beanstalk configuration. Select the newly created key pair from the dropdown menu. Also select the EC2 instance profile. Click on next.

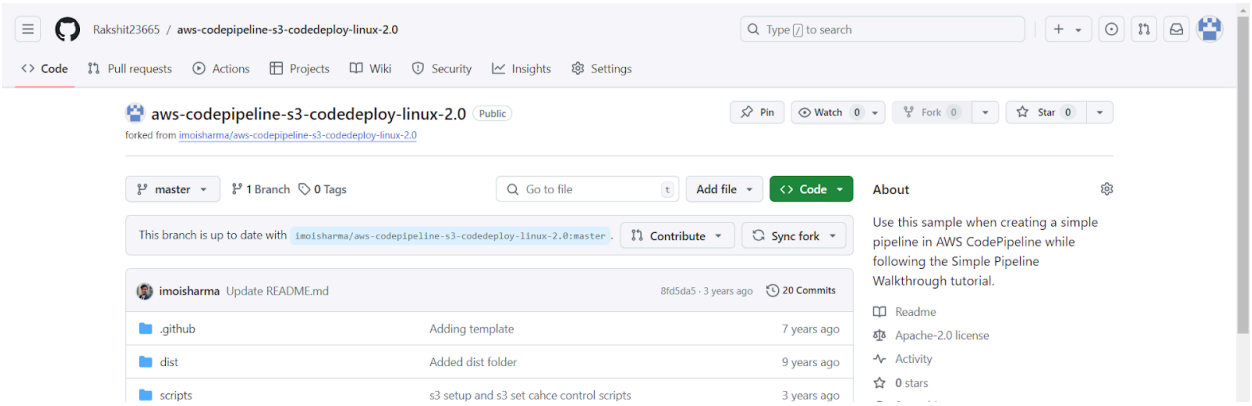


5. Skip to review. Review all the configurations and click on submit.Wait for the “Environment successfully launched” message.

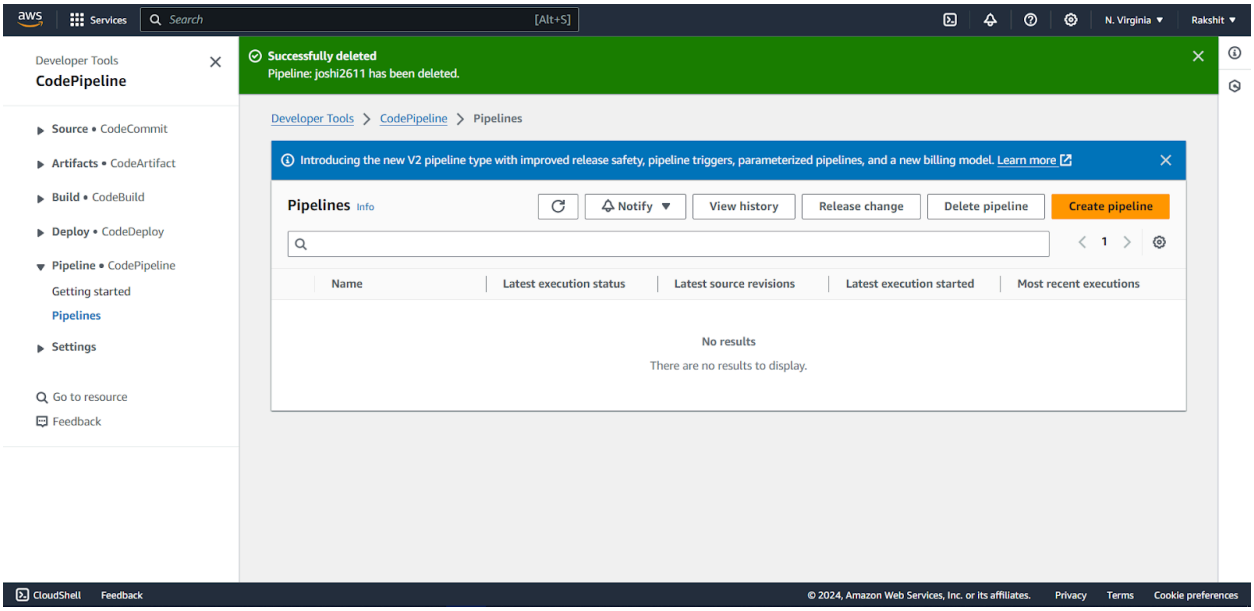




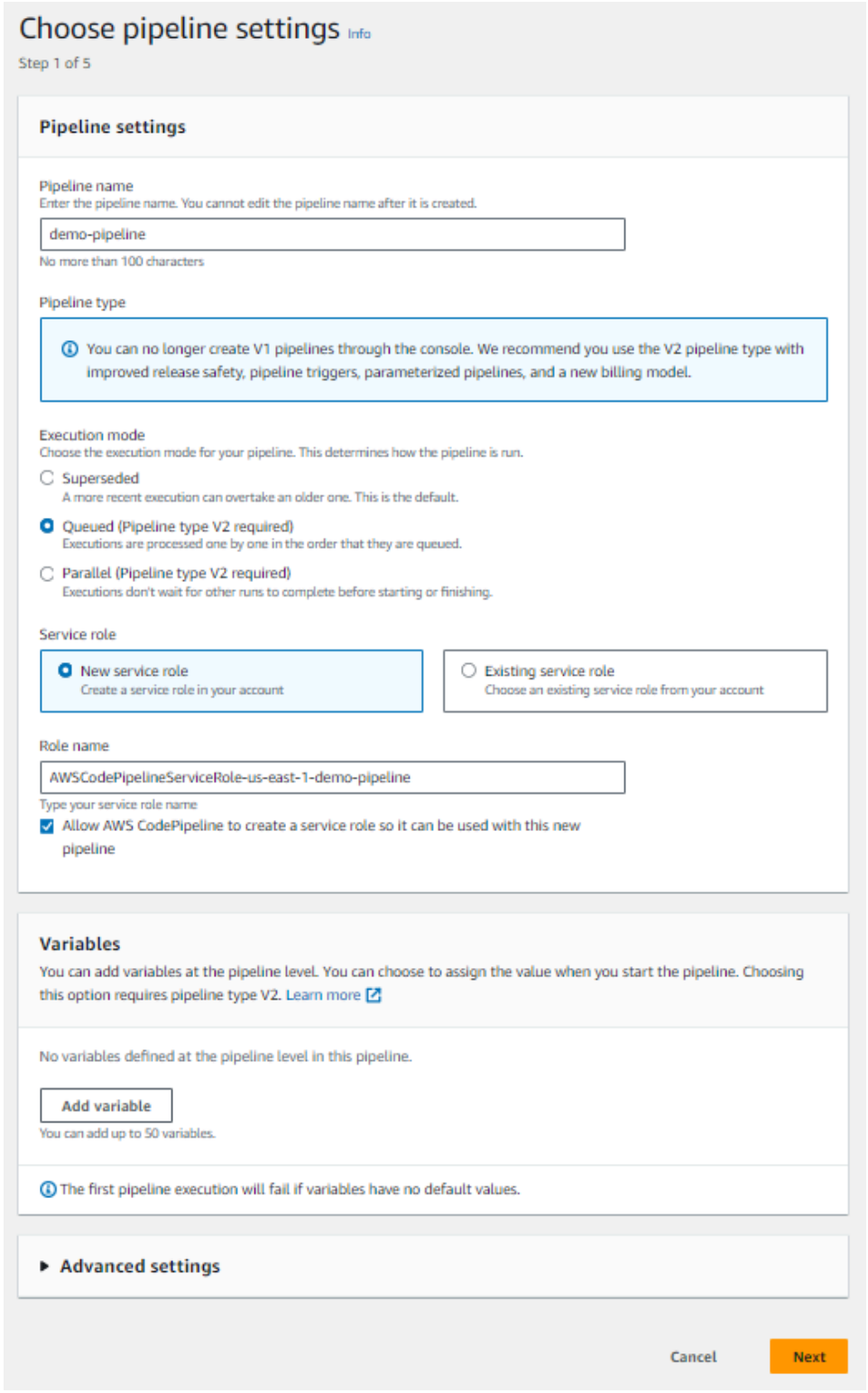
6. Create a github repository with the source code to be deployed. Here I have forked an existing repository.



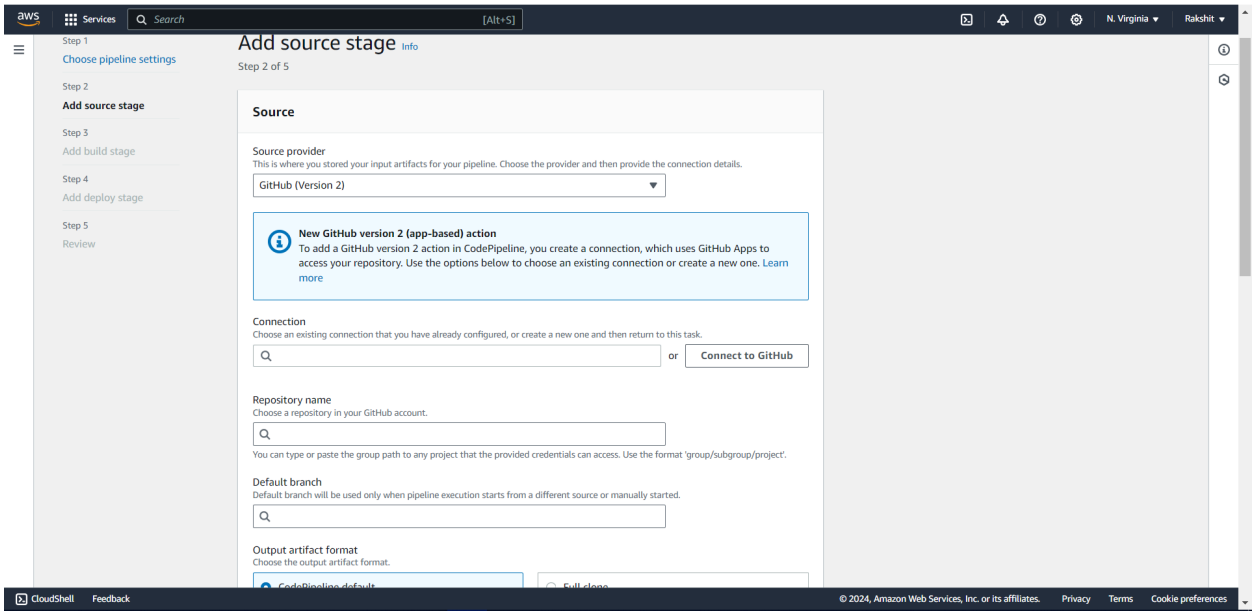
7. Go to CodePipeline service and click on create pipeline.



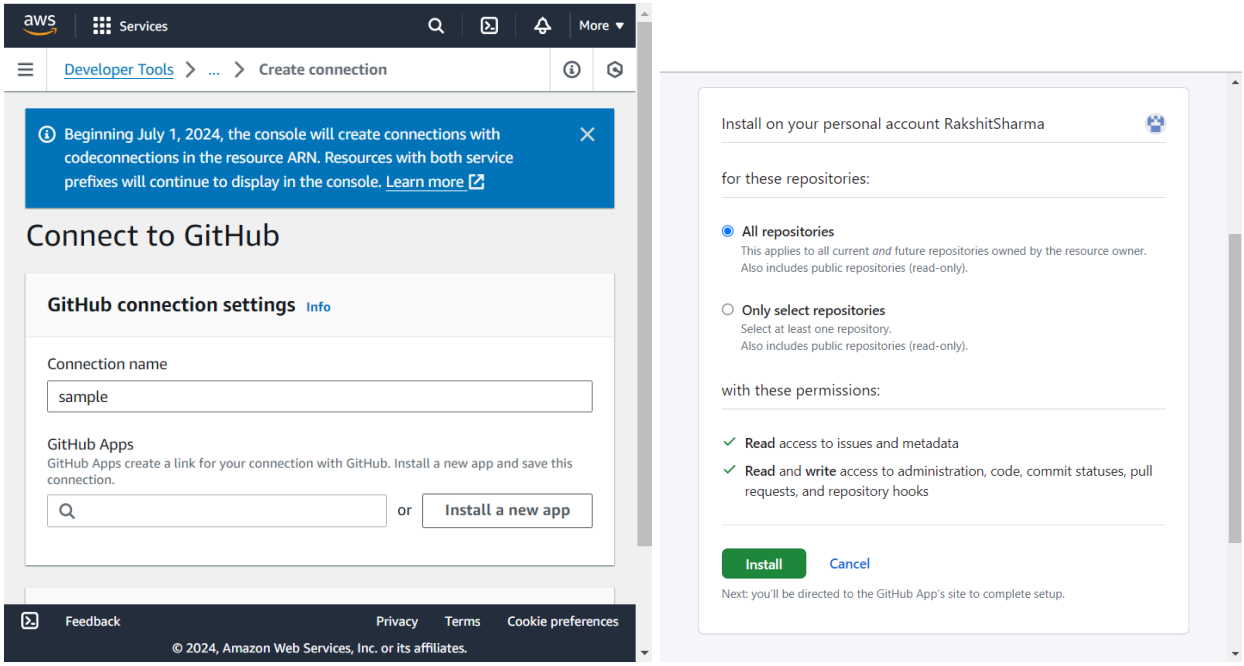
8. Give the pipeline a name. Role name will be generated automatically based on pipeline name

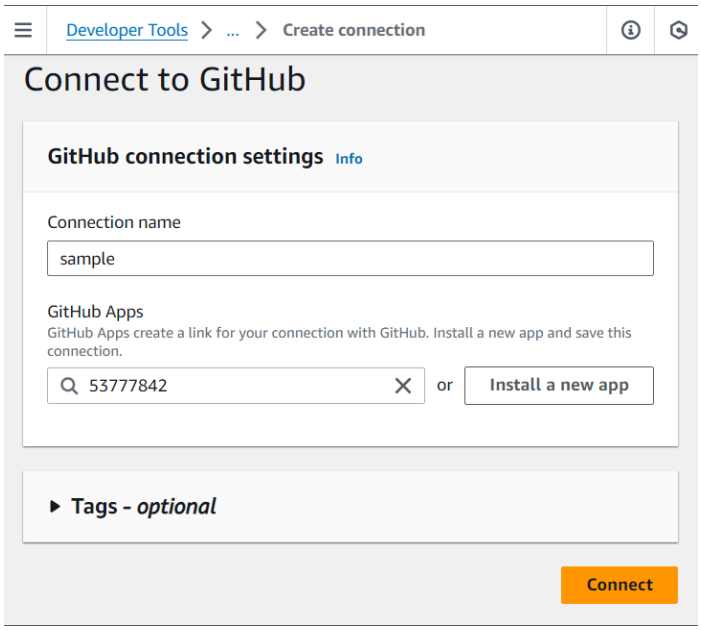


9. Select Github(Version 2) as a source provider. Click on connect to github to create a new connection if you don't have one.

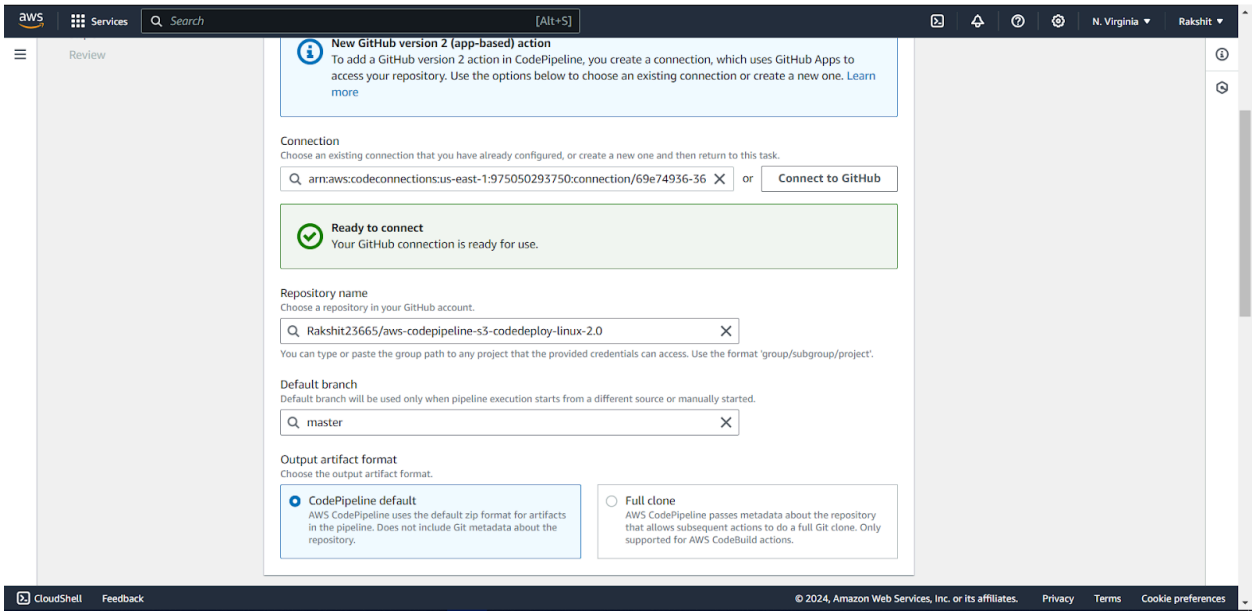


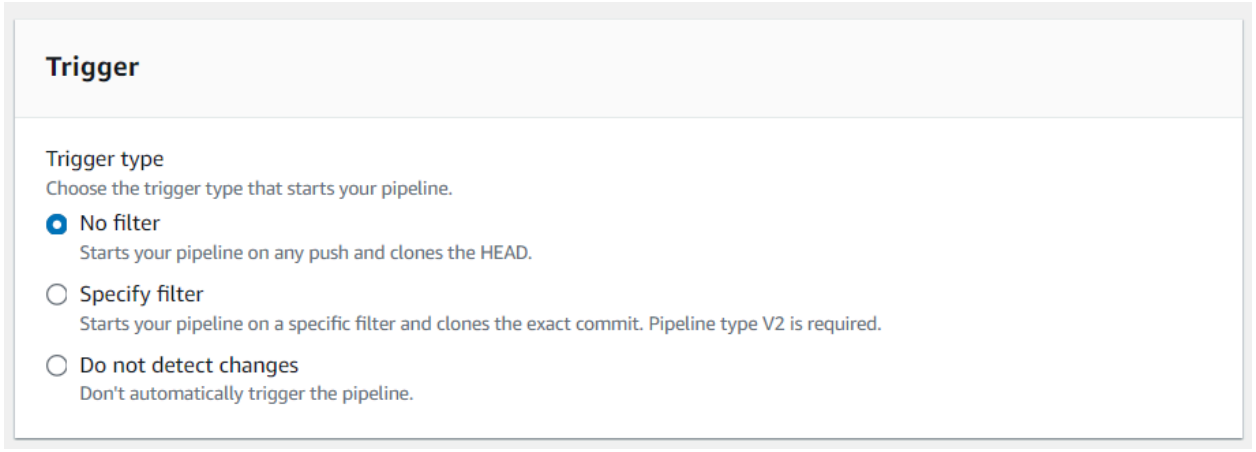
10. Give the connection a name and click on Install a new app. After this click on install. Once installation is complete click on connect to establish a connection.



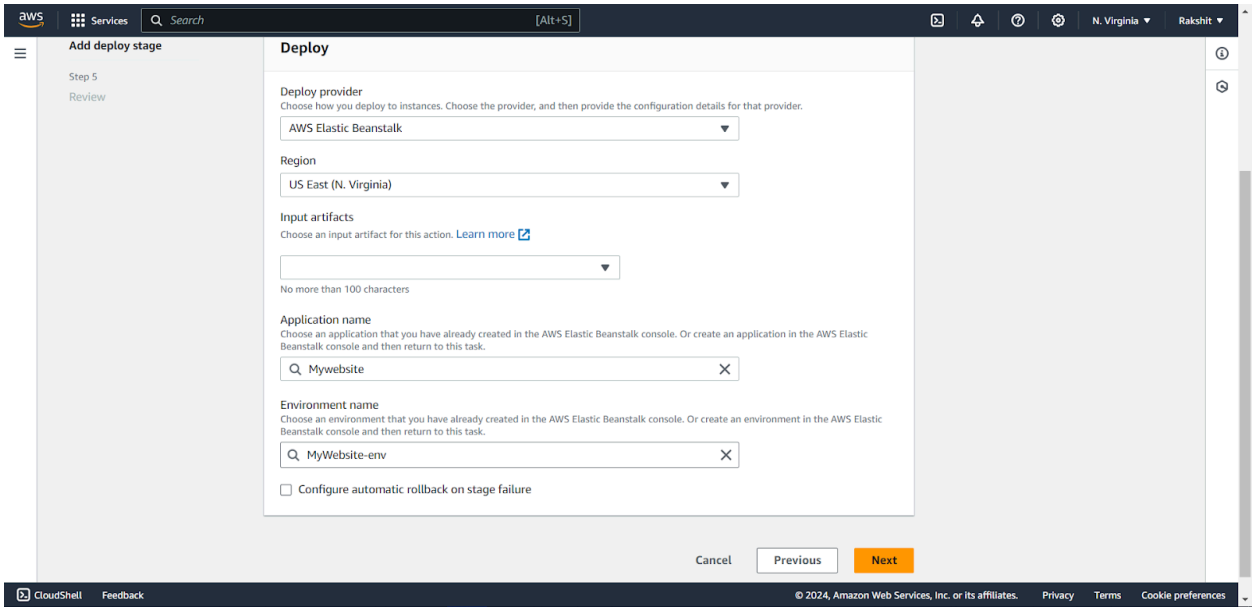


11. Once the connection is established, you will get a success message. Select the repository containing the source code. Also select the branch(usually master). Be sure to select the no filter option in Trigger section. Click on next.

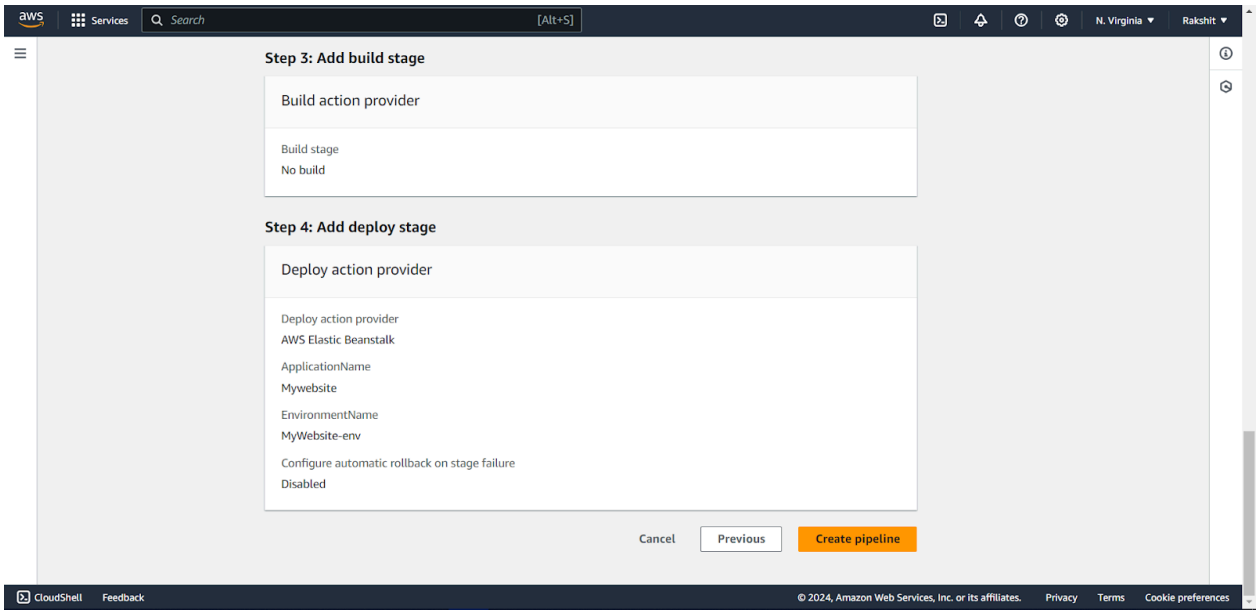




12. Skip the build stage and directly go to deploy stage. Select Elastic Beanstalk as Deploy provider. Select the Elastic Beanstalk application name that we created earlier. Click on next once done.



13. Review the configurations made and click on create pipeline.



14. Once the pipeline is created you can go to the environments page(Elastic Beanstalk). The website is hosted on the link under domain column. Click on the link to go to the hosted website.