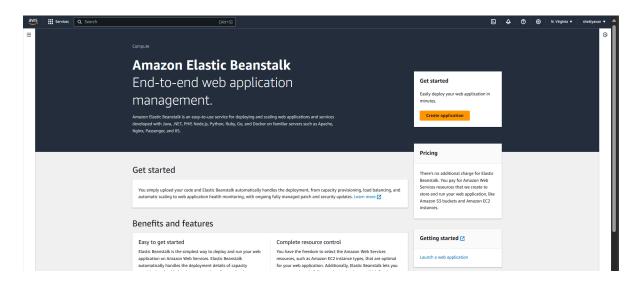
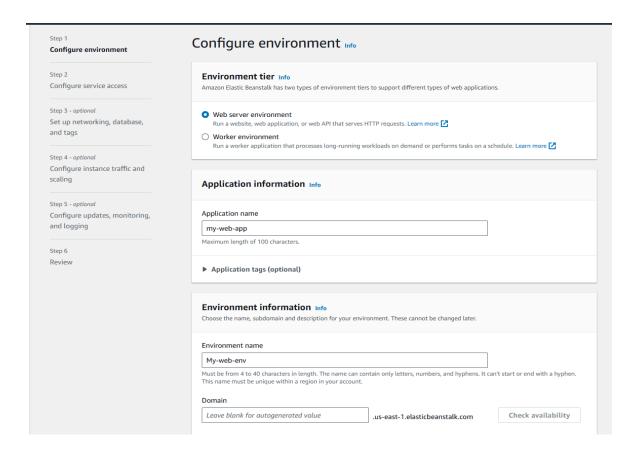
Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

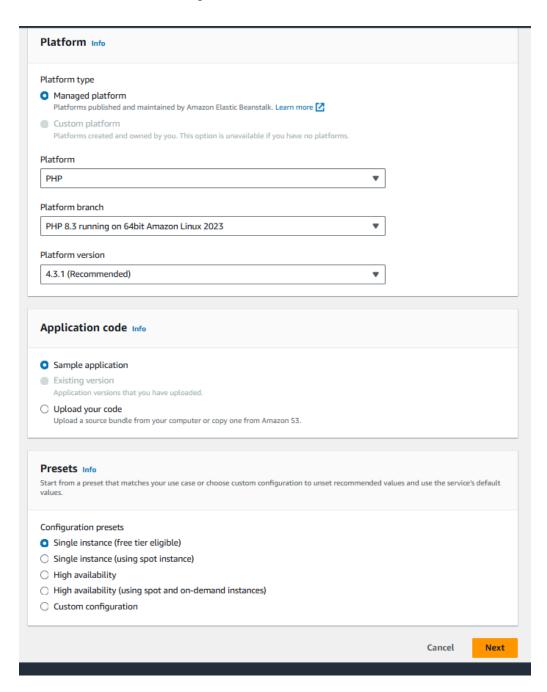
1. Open the aws console and then search Elastic Beanstalk (Opens a dashboard as seen below)



2. Click on create application and configure the environment by adding your application name

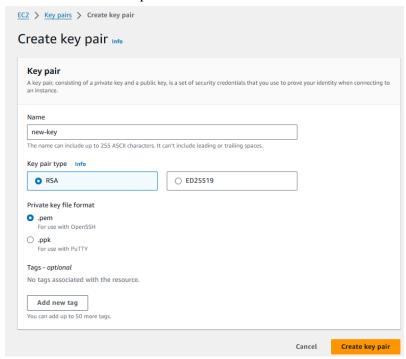


3. Choose PHP from the drop-down menu and click next

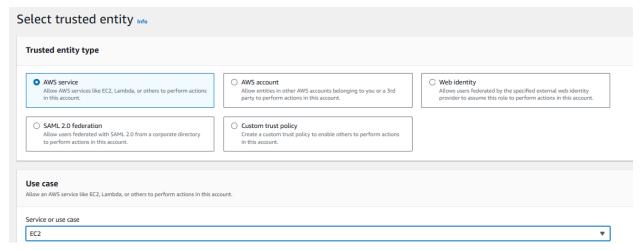


4. In this step you have to create a key pair

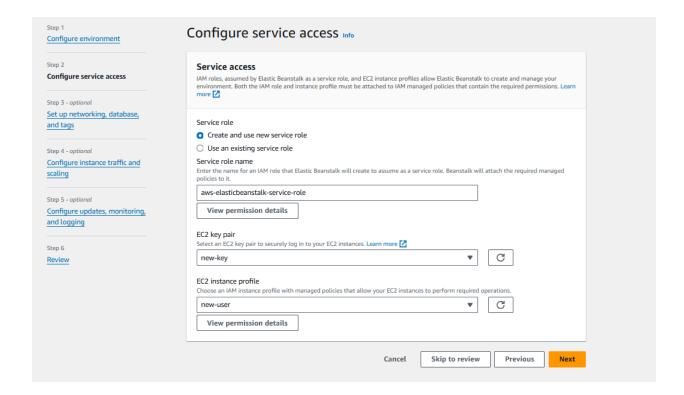
a. Go to EC2 instance tab and from the let panel create a key pair. As the key pair might be useful for the further process



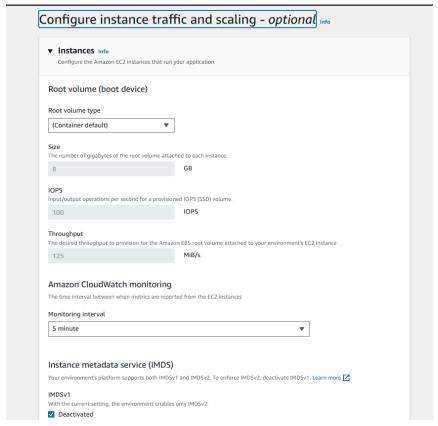
b. In the same fashion go to IAM and then under roles section click create role and then Select AWS Service and under instances select EC2. Your EC2 Instance role is created

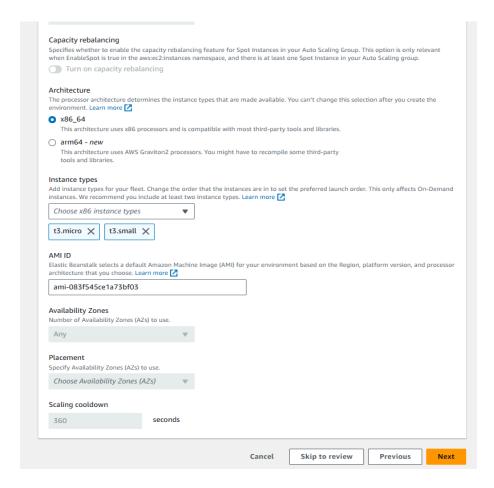


5. Now comeback to Elastic Beanstalk page and from the drop down menu select the newly created key pair and instance profile

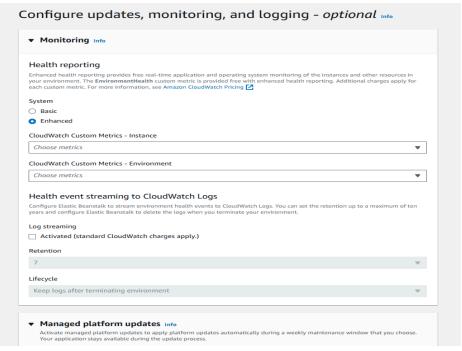


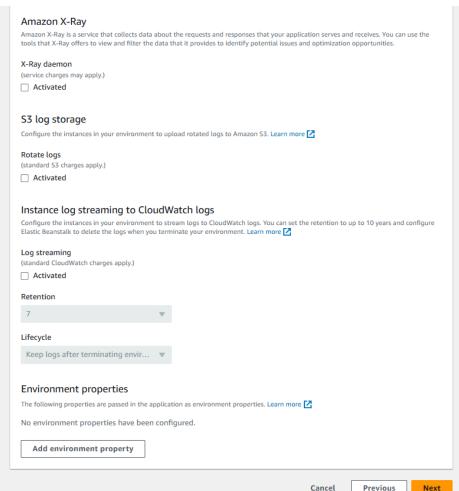
6. No changes further in the Configure instance traffic section



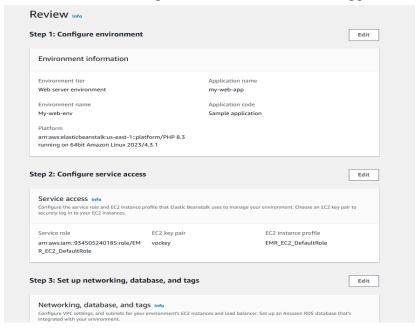


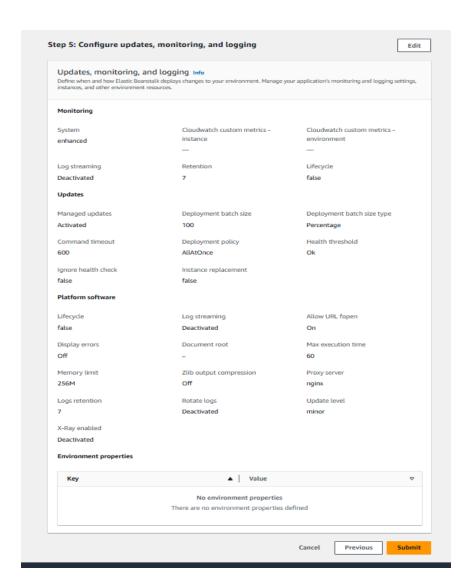
7. Again no changes in the configure updates, monitoring, and logging part just click on next.



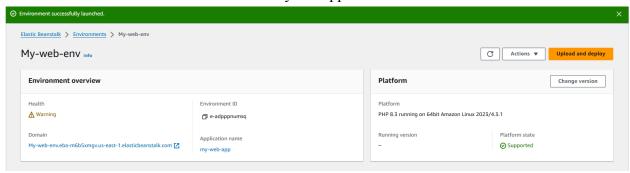


8. Now review the changes made and click on create application





9. Your sample environment is created 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.

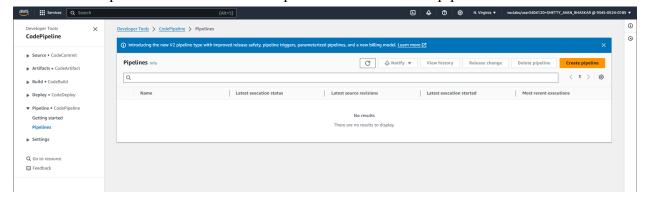


Pipeline creation:

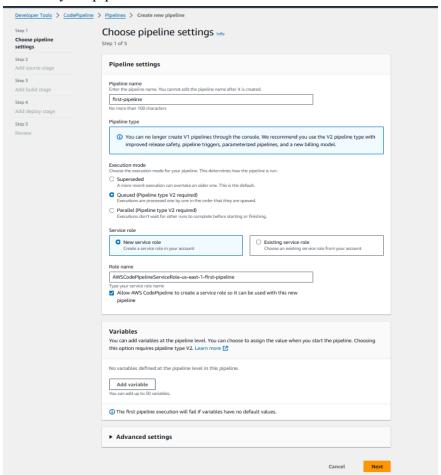
1. Fork a github repo for aws codepipeline available as The pipeline takes code from the source and then performs actions on it. We don't need to code from scratch in this manner



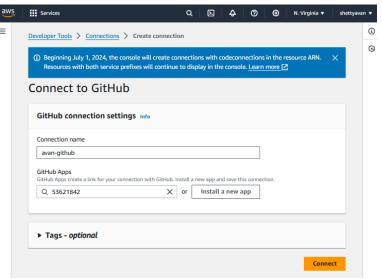
2. Go to developer tools and select CodePipeline and create a new pipeline

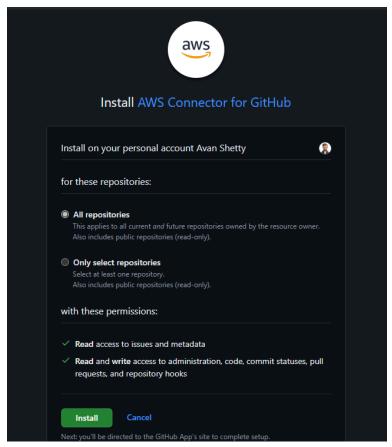


3. Name your pipeline and select the desired service role

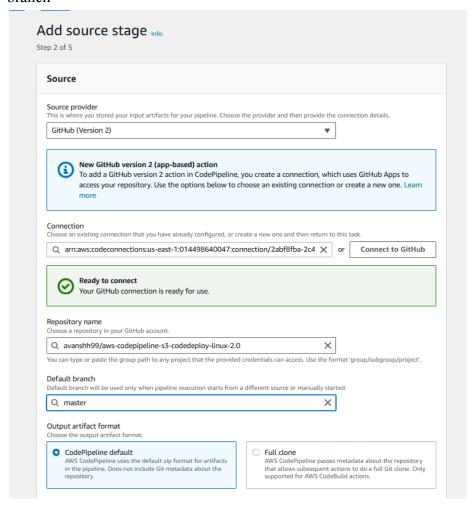


- 4. In the source stage select Github v2 as the provider and then connect your github connect so that the pipeline can access the forked source code .
 - a. For this purpose create aws github connection and with your credentials install the AWS under the forked repository

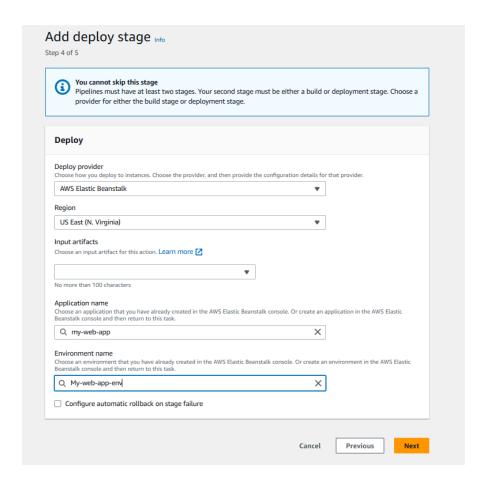




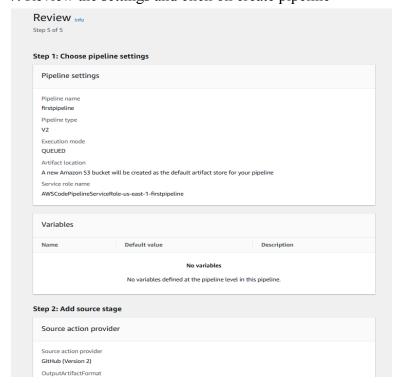
5. Once the connection is established from the drop down menu select the repository and the branch

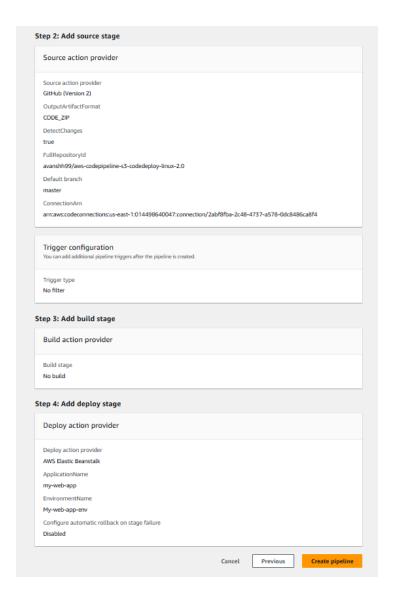


6. Skip the build stage part as we are not plugging in any build provider and in choose Beanstalk as the Deploy Provider, same region as the Bucket and Beanstalk, name and environment name.

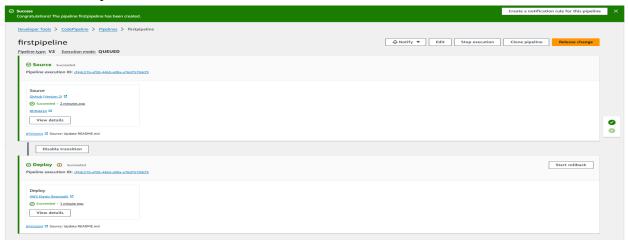


7. Review the settings and click on create pipeline

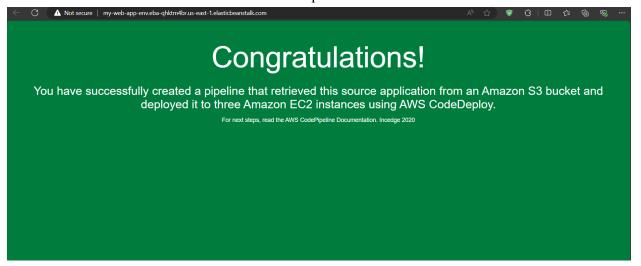




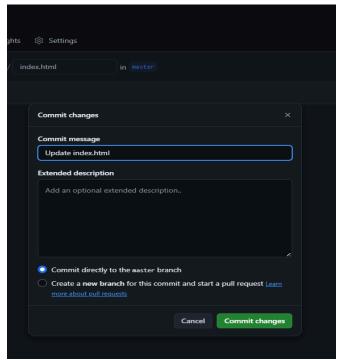
8. Once the Successfully created message appears, your pipeline is created. Then go ahead and check the URL provided in the EBS environment.



9. This is the website hosted from that forked repo in our beanstalk environment



10. Go to the repository and make the changes in the index.html file and commit them



11. The changes that are committed can be noticed in the source panel in real time and to view the changes check the url (refresh it) and you can view the changes once the deployment section shows success.

