# Advanced DevOps Lab Experiment 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.

#### Theory:

Continuous deployment allows you to deploy revisions to a production environment automatically

without explicit approval from a developer, making the entire software release process automated.

You will create the pipeline using AWS CodePipeline, a service that builds, tests, and deploys your

code every time there is a code change. You will use your GitHub account, an Amazon Simple

Storage Service (S3) bucket, or an AWS CodeCommit repository as the source location for the

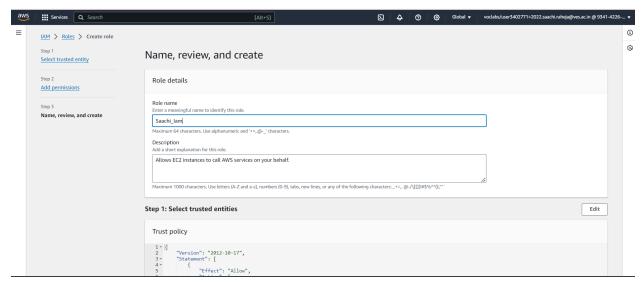
sample app's code. You will also use AWS Elastic Beanstalk as the deployment target for the

sample app. Your completed pipeline will be able to detect changes made to the source repository

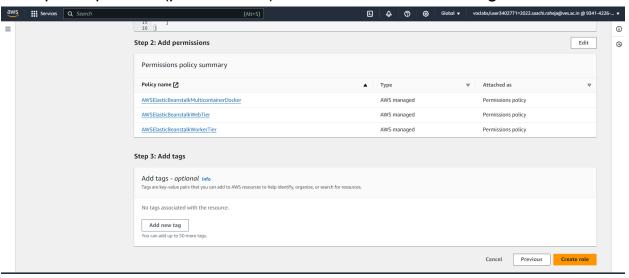
containing the sample app and then automatically update your live sample app.

# Steps:

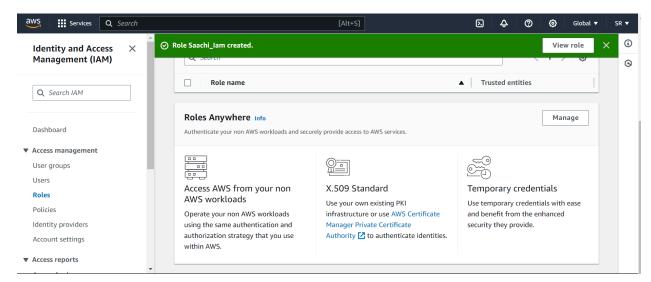
- 1.Create a role in an IAM.
- 2.Add EC2 for a service or use case.
- 3. Give name to the role.



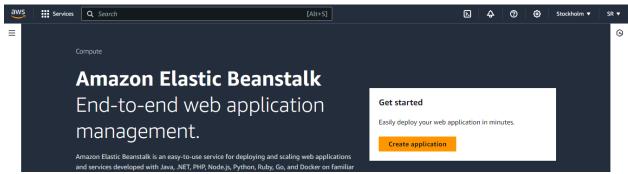
4. Required policies (permissions) to be added while creating IAM user.



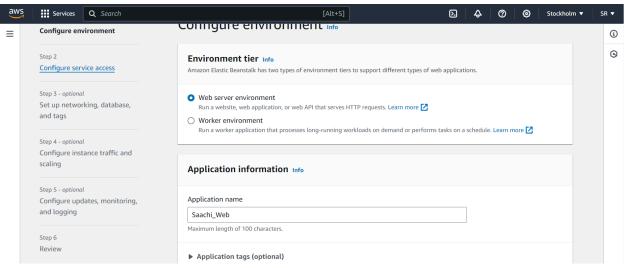
5.IAM Role Created



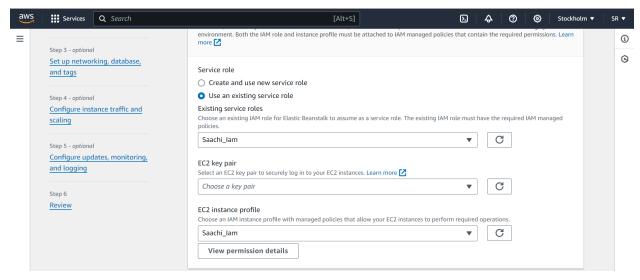
6.Go to the Elastic beanstalk and create an application. Give the appropriate name for the application.



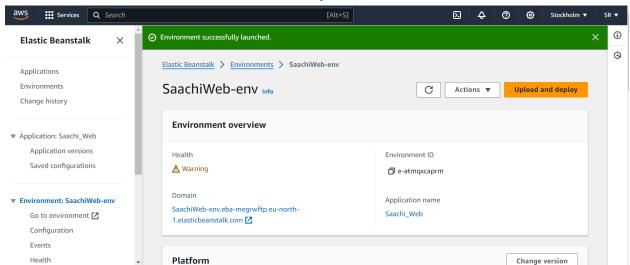
7. Select the platform as PHP.



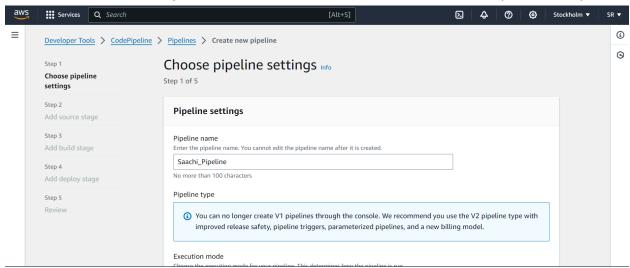
8.In an ec2 instance profile, select the created IAM role



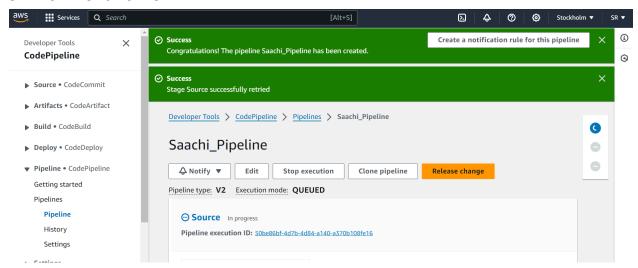
### 9. Environment is launched successfully



## 10.Go to the CodePipeline and select the source as GitHub (version 1).



11.After skipping the build stage, AWS Elastic beanstalk is to be selected in the Deploy Provider. Select your recently created application name and environment name.



12.Go to the elastic beanstalk environment and click on domain.

