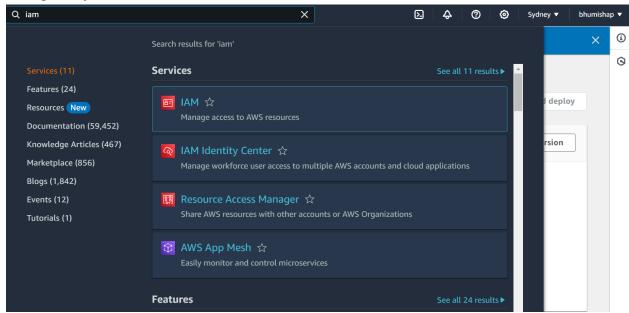
## **Experiment No. 2**

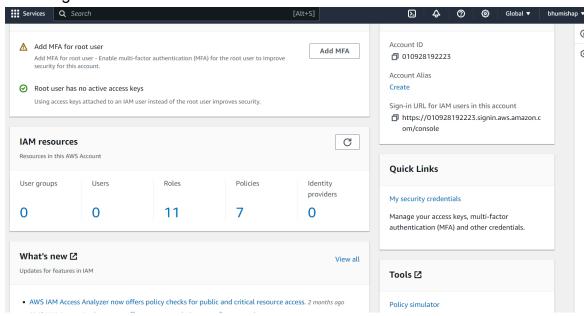
**Aim**: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

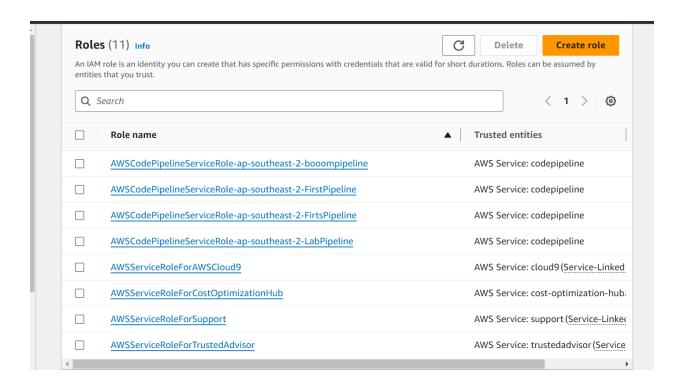
## Step1:- Creation of role:-

1. Login to your AWS account and search for IAM

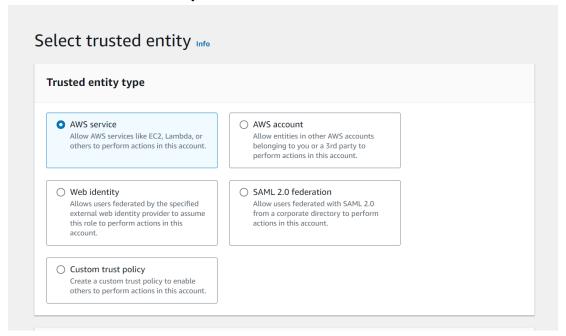


2. Then go into the role section and click on create role.

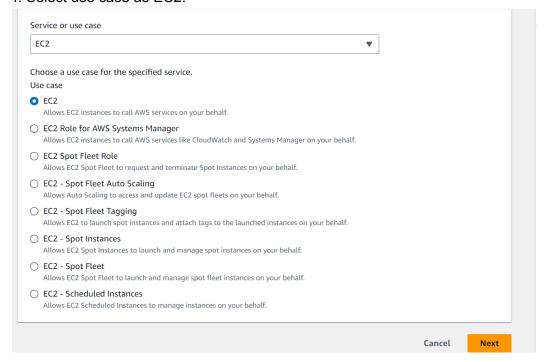




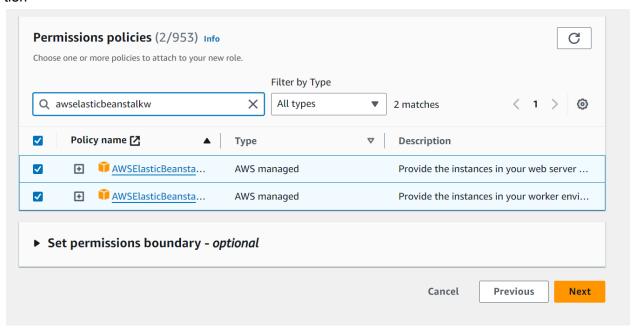
3. Then select a trusted entity as AWS service.



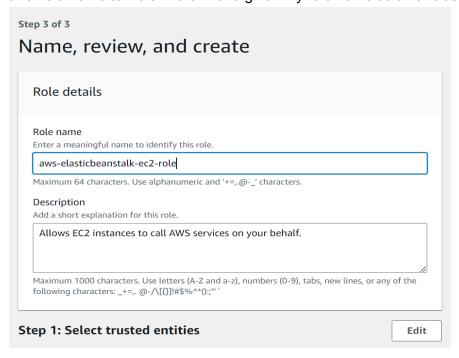
4. Select use case as EC2.



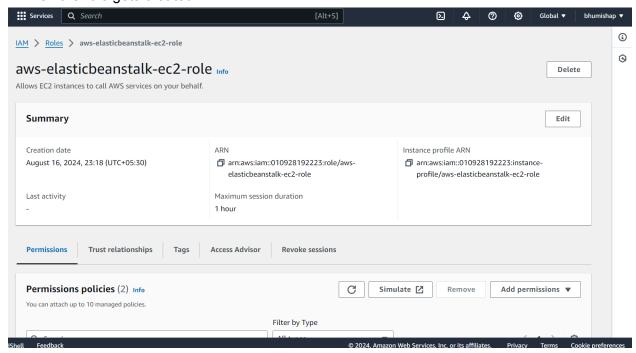
5. Select permissions as AWS Elastic Beanstalk Web Tier.and AWS elastic Beanstalk worker tier.



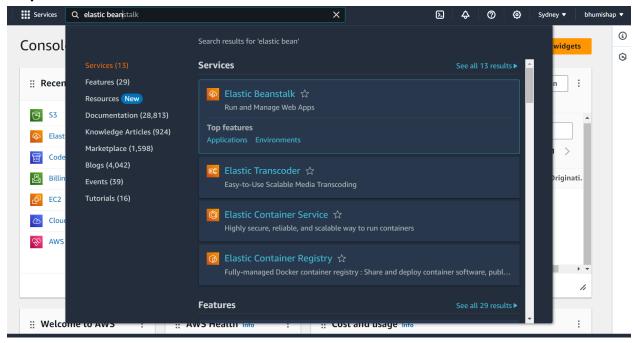
6. Give a name to Role. Here I have given my role name as aws -elasticbenstalk -ec2 role.



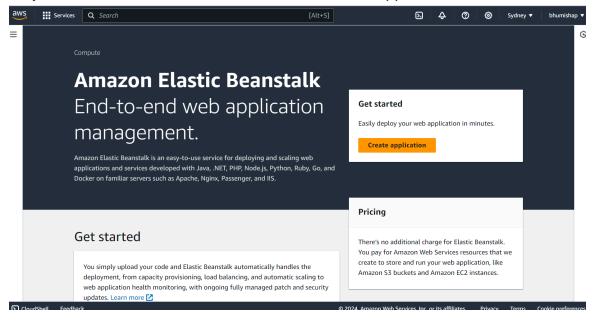
7. Then the role gets created.



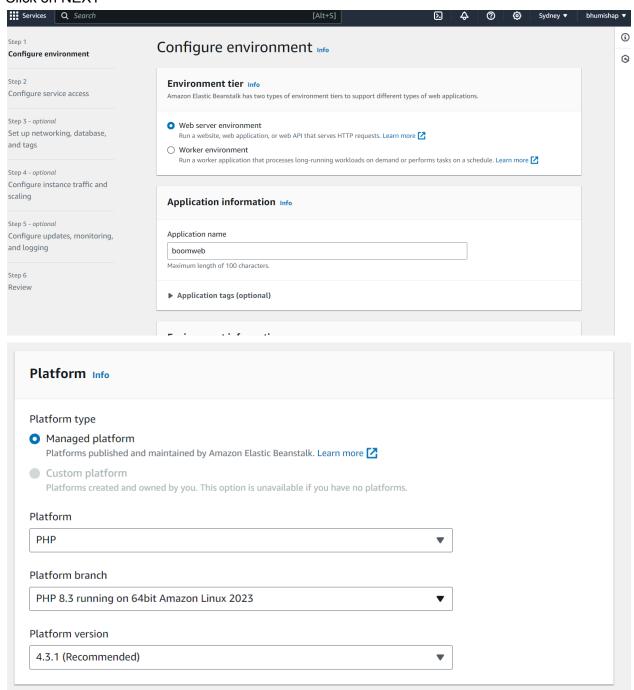
Step 2: Search for Elastic Beanstalk in the searchbar near services



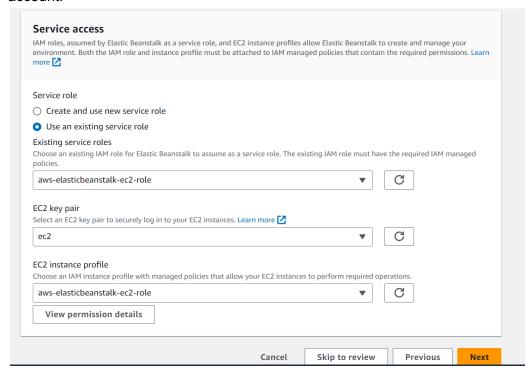
Step 3: Go to Elastic Beanstalk and click on Create Application



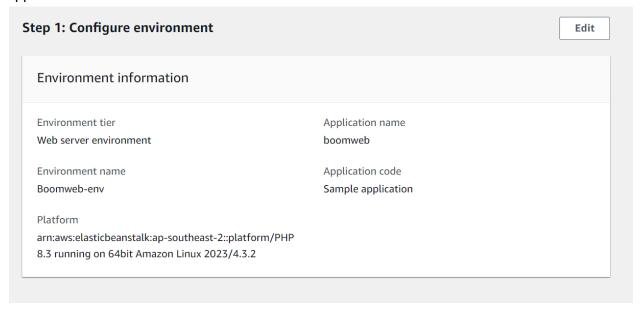
**Step 4**: Enter the name of your application. Scroll down and in the platform, select platform as PHP. Keep the application code as Sample Application. Set the instance to a single instance. Click on NEXT

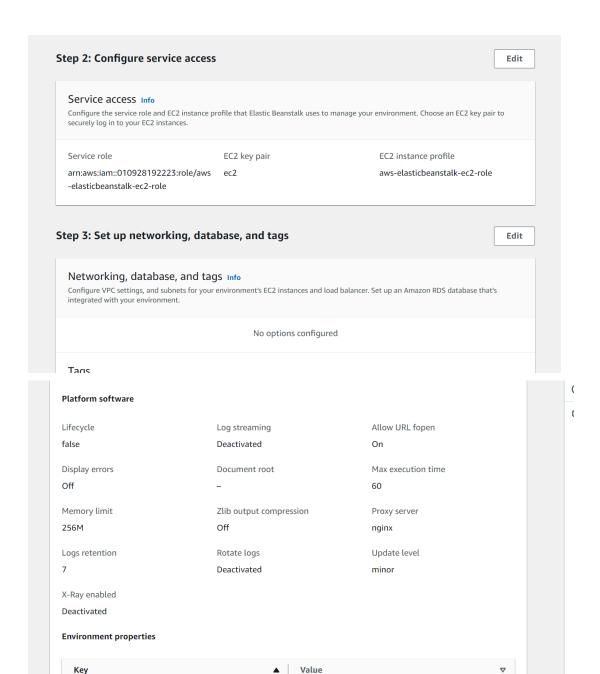


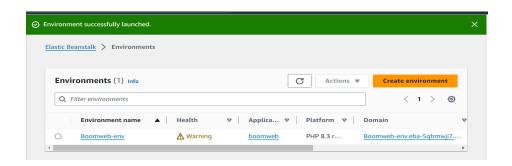
**Step 5**: Use an existing service role and choose whatever service role is available on your account.



**Step 6**: Review the settings that you have set up for your application and submit your application.





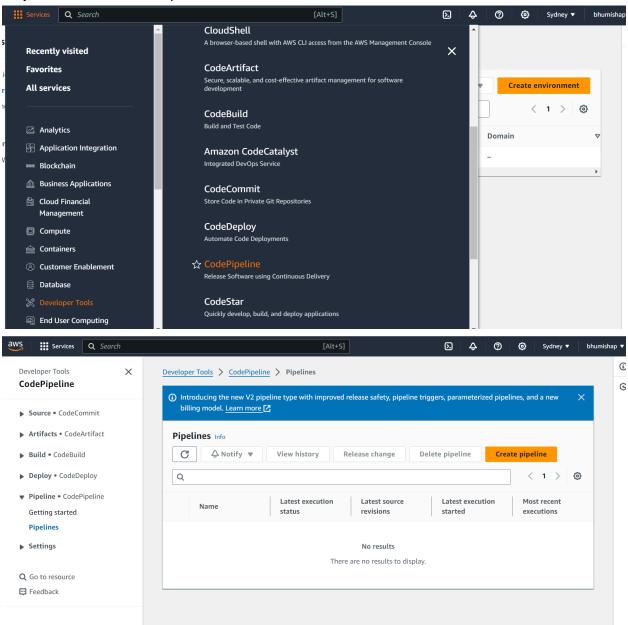


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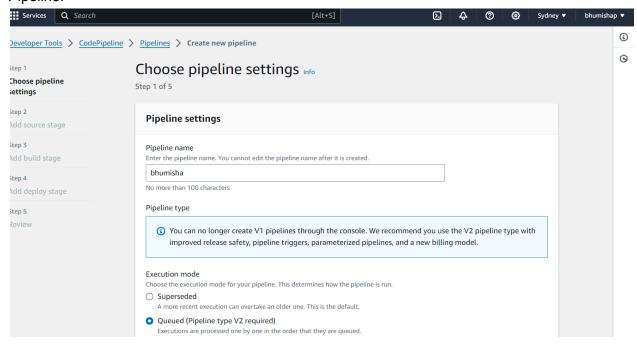
**Step 7**: Go to the github link below. This is a github with a sample code for deploying a file on AWS CodePipeline. Fork this repository into your personal github. https://github.com/aws-samples/aws-codepipeline-s3-codedeploy-linux



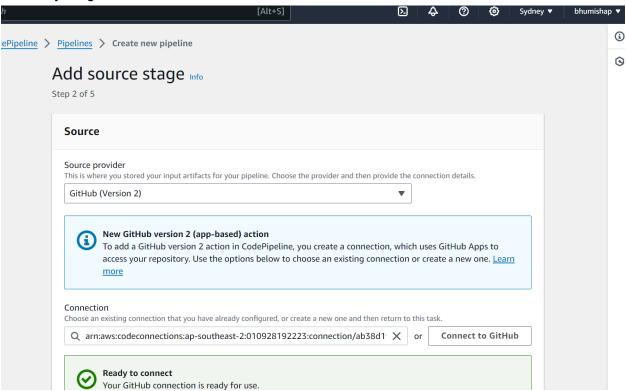
Step 8: Click on Create Pipeline.



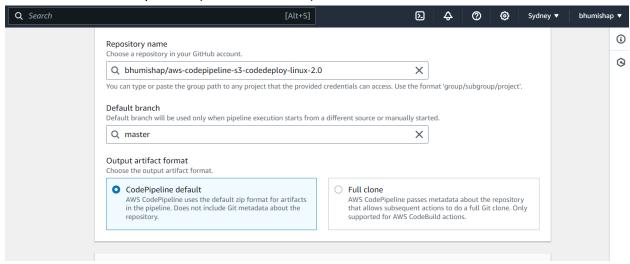
**Step 9**: Give a name to your Pipeline. A new service role would be created with the name of the Pipeline.



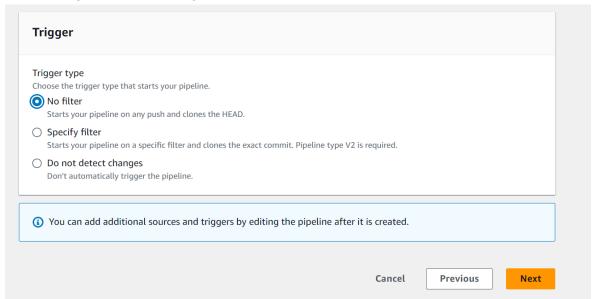
**Step 10**: Select a source provider (as Github (Version 2)). Click on Connect to Github to connect your github.



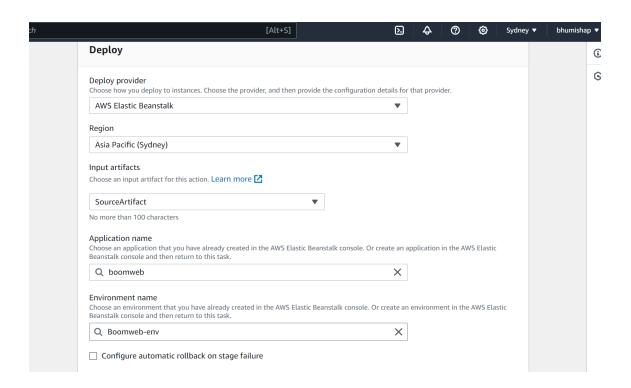
**Step 11**: Select the repository that you had forked to your GitHub. After that select the branch on which the files are present (default is Master).



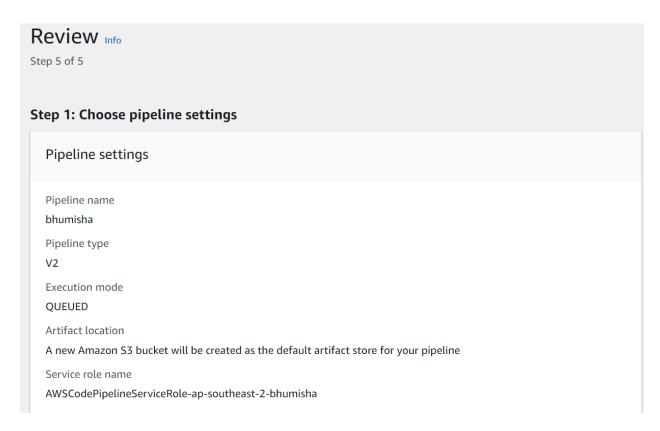
**Step 12**: Set the Trigger type as no filter. This would allow it to the website to update as soon as some change is made in the github.

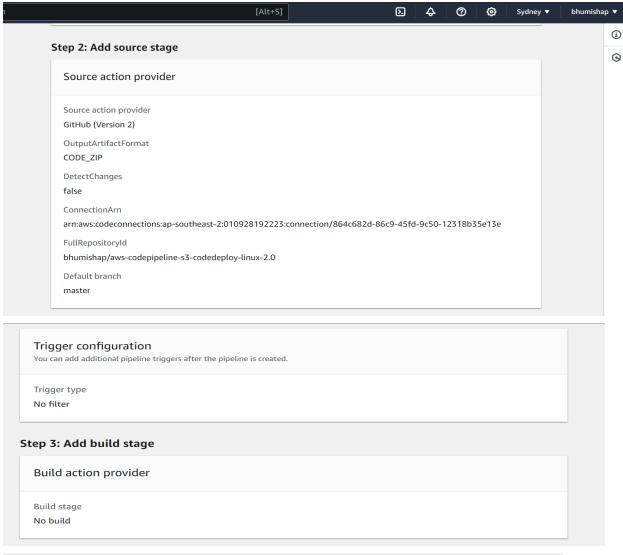


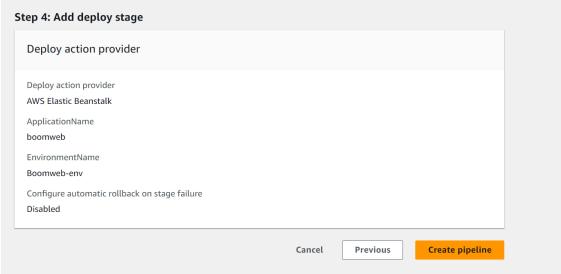
**Step 13**: Skip the build stage and go to Deploy. Select the deploy provider as AWS Elastic Beanstalk and Input Artifact as SourceArtifact. The application name would be the name of your Elastic Beanstalk. Then click on next.



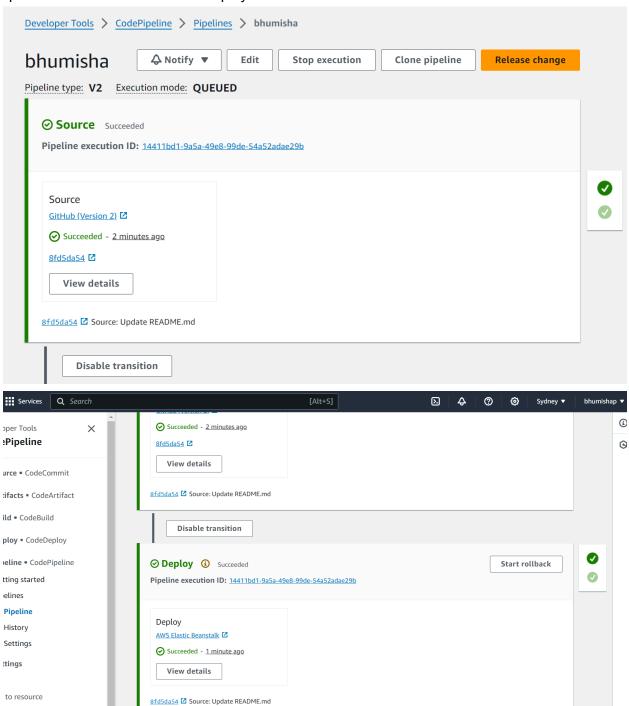
**Step 14**: Check all the information and click on create Pipeline.



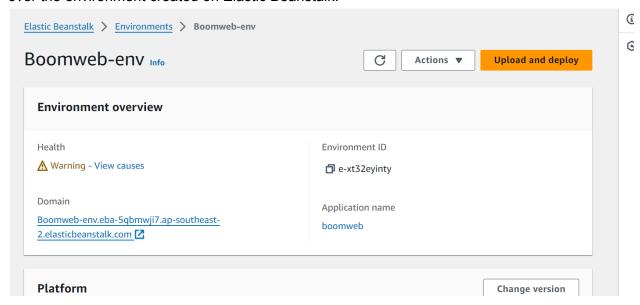




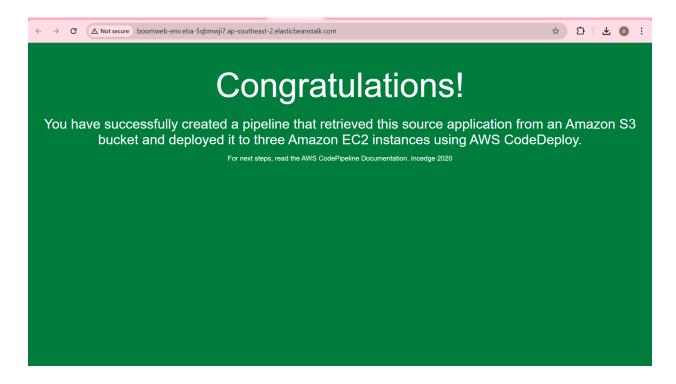
**Step 15**: If the pipeline is successfully deployed, this screen comes up where the source is set up and then it is transitioned to deploy.



**Step 16**: In a few minutes the website will get hosted successfully. Then click on the url present over the environment created on Elastic Beanstalk.



**Step 17**: This will successfully show the sample website hosted.



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