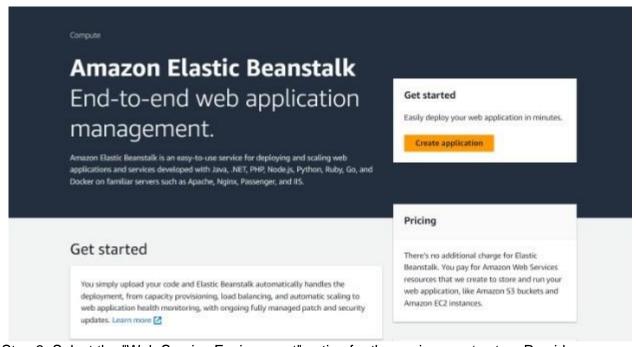
Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

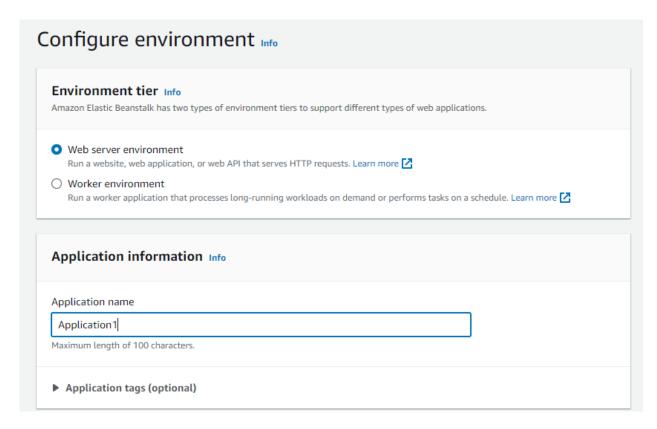
Step 1:Start by logging into your AWS console. Once you're in, use the search bar near the services section to look for "Elastic Beanstalk."



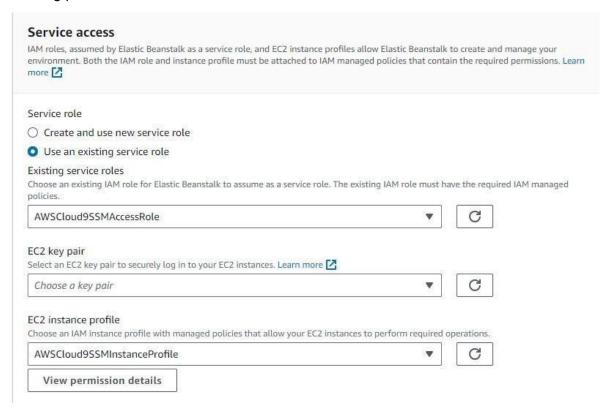
Step 2:After opening Elastic Beanstalk, you'll see an option to "Create Application."



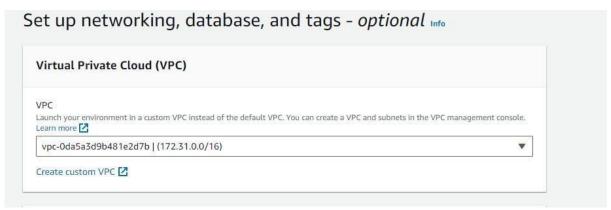
Step 3: Select the "Web Service Environment" option for the environment setup. Provide an appropriate name for the application.



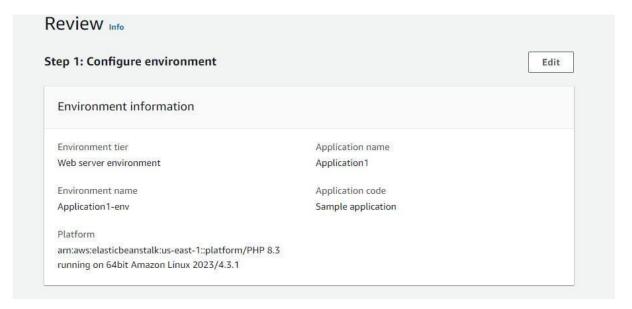
Step 4: In the "Service Access" section, choose "Use an existing service role" to utilize preexisting permissions.



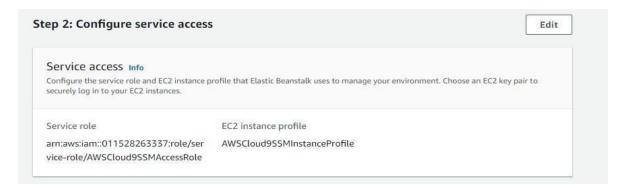
Step 5: In the VPC (Virtual Private Cloud) dropdown, select `vpc-0da5a3d9b481e2d7b (172.31.0.0/16)` to specify the network for the environment.

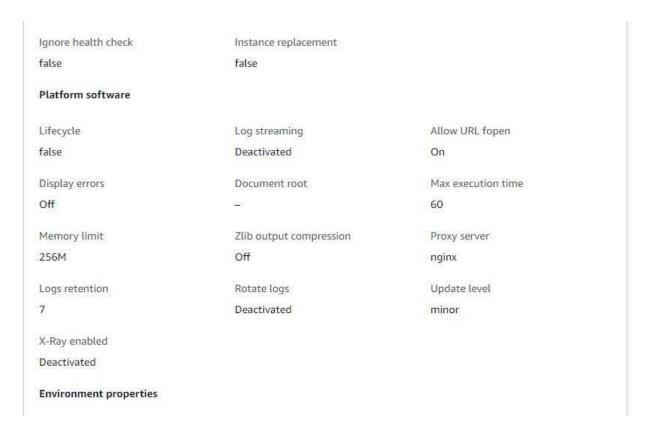


Step 6: Click on the "Review" button to double-check all selections before proceeding.

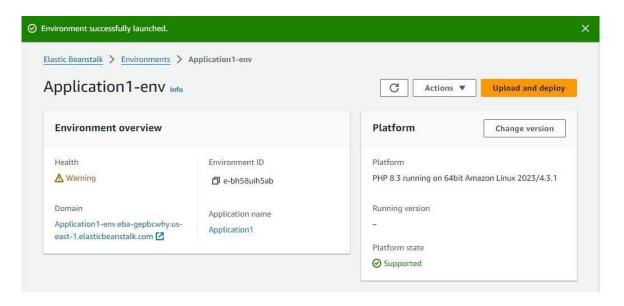


Step 7: After reviewing, click "Configure Service Access" to finalize the settings, ensuring the environment has the correct permissions.

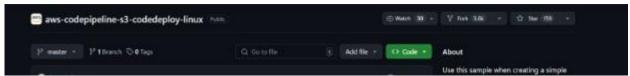




Step 8: The environment creation process is successfully set up.

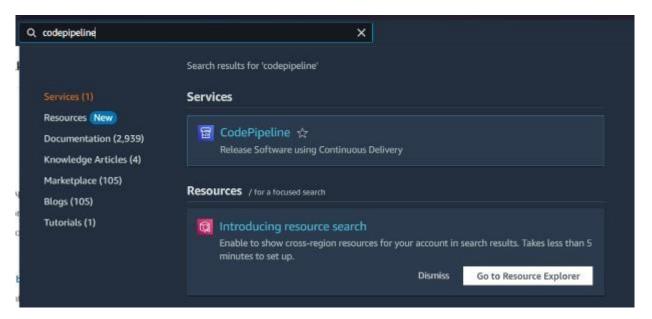


Step 9: Go to a GitHub account and use this link to find the necessary repository: https://github.com/aws-samples/aws-codepipeline-s3-codedeploy-linux

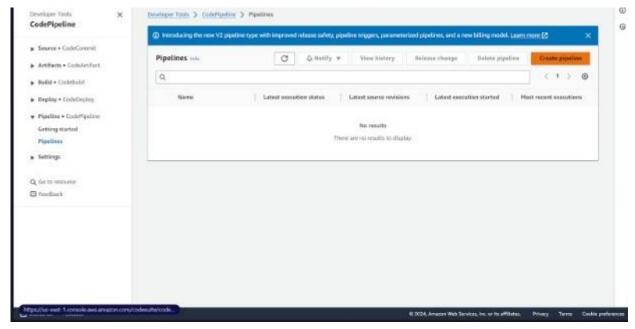


Step 10: On the repository page, click the "Fork" button next to the code to create a copy of the repository in the GitHub account.

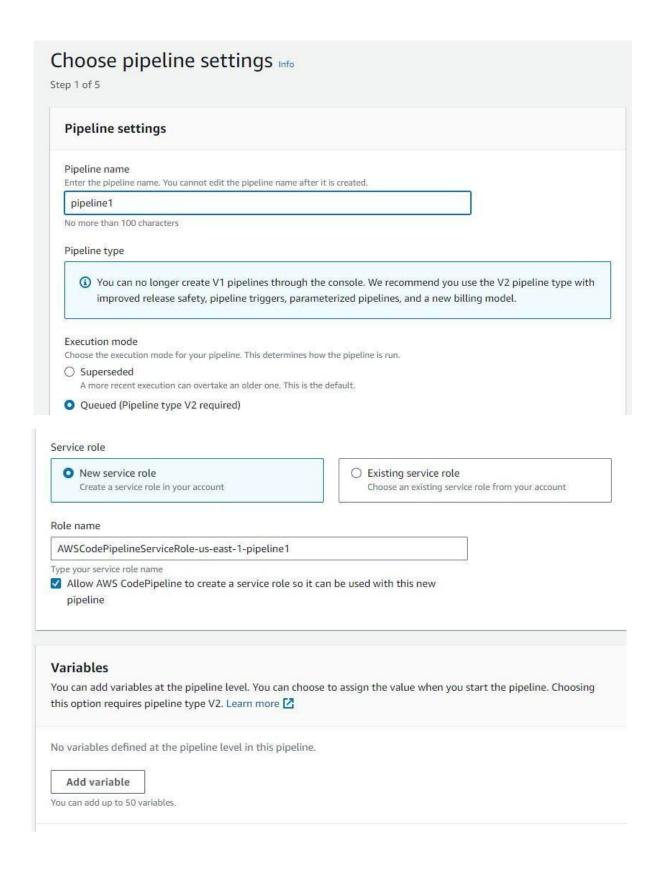
Step 11: Search for "CodePipeline," and click on it in the results.



Step 12: In the CodePipeline interface, locate the "Create Pipeline" button and click it to start setting up the new pipeline.

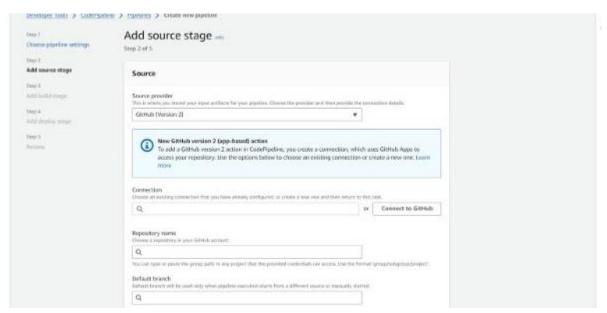


Step 13: Name the pipeline, set the execution mode to Queued, and select New service role for the service role. AWS will generate a default role name.

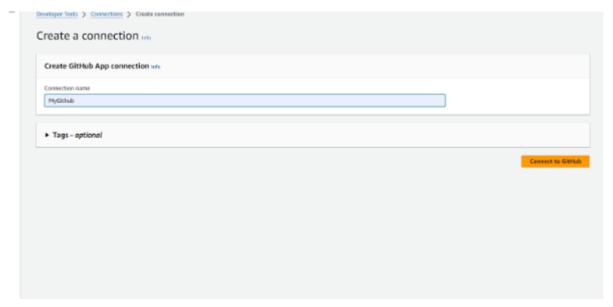


Step 14: If specific variables are required for the pipeline, go to the Variables section and add them by clicking Add Variable.

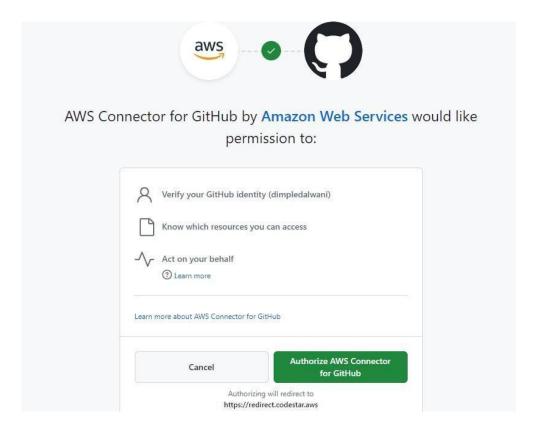
Step 15: In the "Add Storage Stage" section, there is an option to connect the pipeline to GitHub. Click the "Connect to GitHub" button next to the connection field.



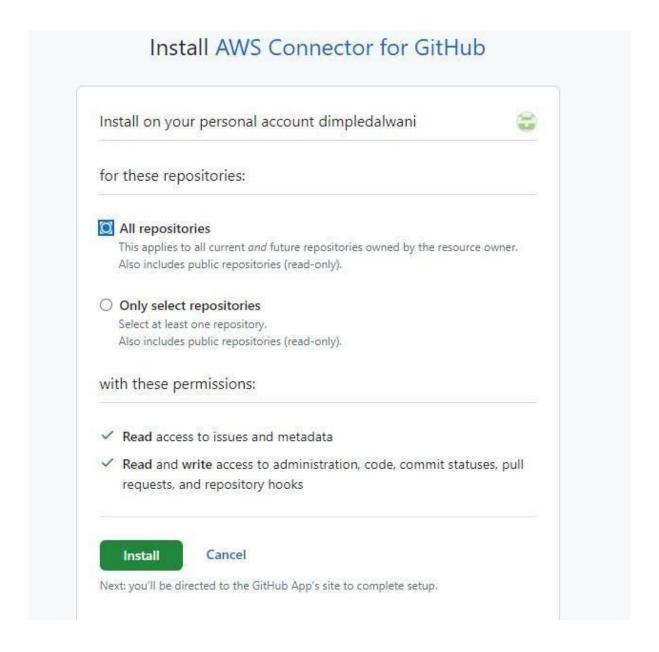
Step 16: Enter a name for the connection when prompted, then click "Connect to GitHub" to link the pipeline with the GitHub account.



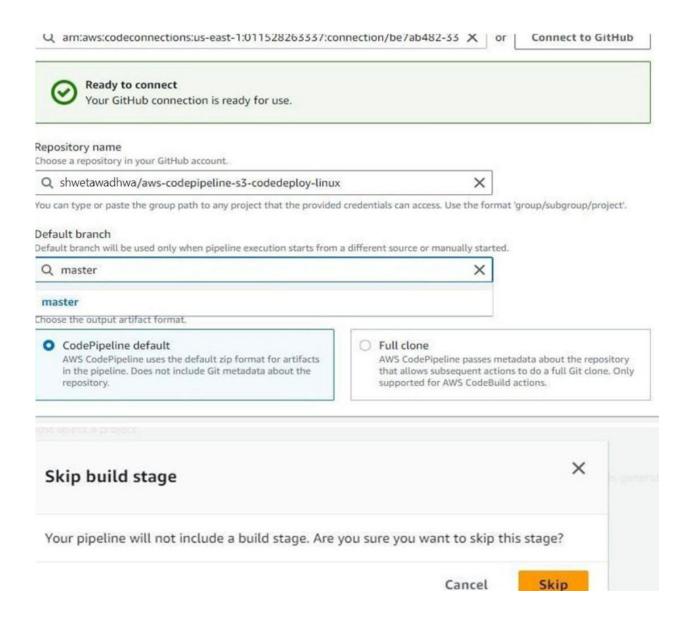
Step 17: Authorization will be required on the next page. Click the "Authorize AWS Connector for GitHub" button to grant the necessary permissions.



Step 18: Select the "All repositories" option to grant access to all GitHub repositories, and click "Install" to finalize the connection.

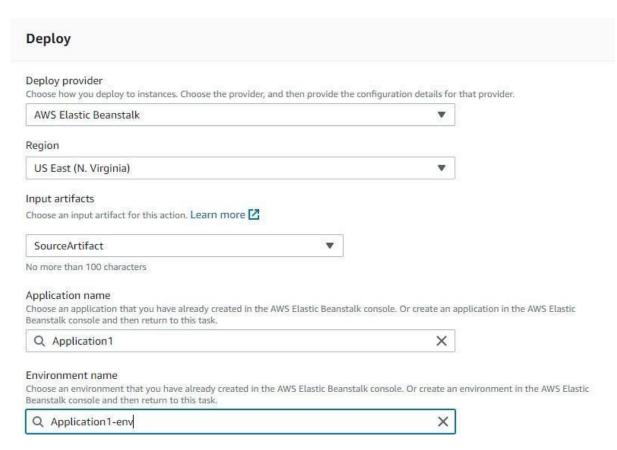


Step 19: In the pipeline setup, enter the name of the forked repository. Set the default branch to "master" and choose "CodePipeline default" as the configuration.

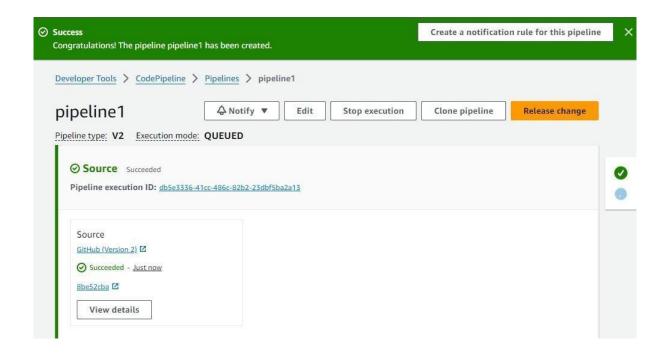


Step 20: The "Build" stage is optional and can be skipped if not needed.

Step 21: In the "Deploy" stage, enter the application name and environment name created earlier to link the pipeline to the application environment.



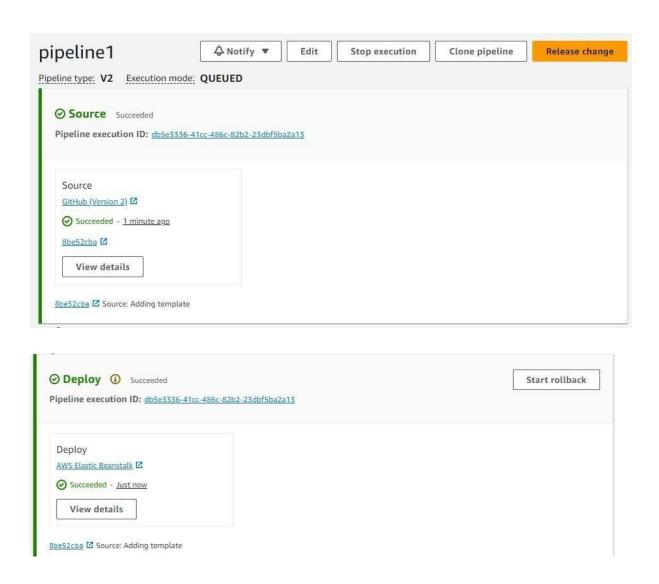
Step 22: The pipeline is successfully created.



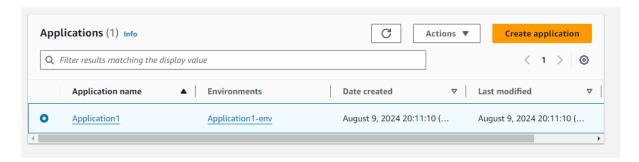
Step 23: Review the deployment details to ensure everything is set up correctly.



Step 24:The pipeline will be fully deployed.



Step 25: To view the application, go to the "Applications" section in the AWS console. Find the created application and click on the link in the environments section to access the live version.



Step 26: The pipeline is successfully created, and the application is deployed and running as expected.

