

CI/CD Deployment for Springboot

Phase - 5 Project

Project and Developer details :

The code for this project is hosted at <https://github.com/3-Rajat-6-Soni-9/CI-CD-Deployment-for-Springboot.git>

Project is developed by Rajat Kumar Soni.

Description :

As a Full Stack Developer, you have to build a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

Problem statement :

As the project is in the final stage, management has asked you to automate the integration and deployment of the web application. You are required to set up an environment where the application will be hosted and accessed by users. The source code is supposed to be fetched from a GitHub repository.

Requirements :

- A part of the source code should be tracked on the GitHub repository. You need to document the tracked files that are ignored during the final push to the GitHub repository.
- The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
- The step-by-step process involved in completing this task should be documented.

Steps :

Step 1) Create a Spring Boot Java App using Spring Initializr

Step 2) Create a GitHub repository

Step 3) Use Travis CI and Docker to implement CI/CD

Step 4) Add Codecov to provide code coverage

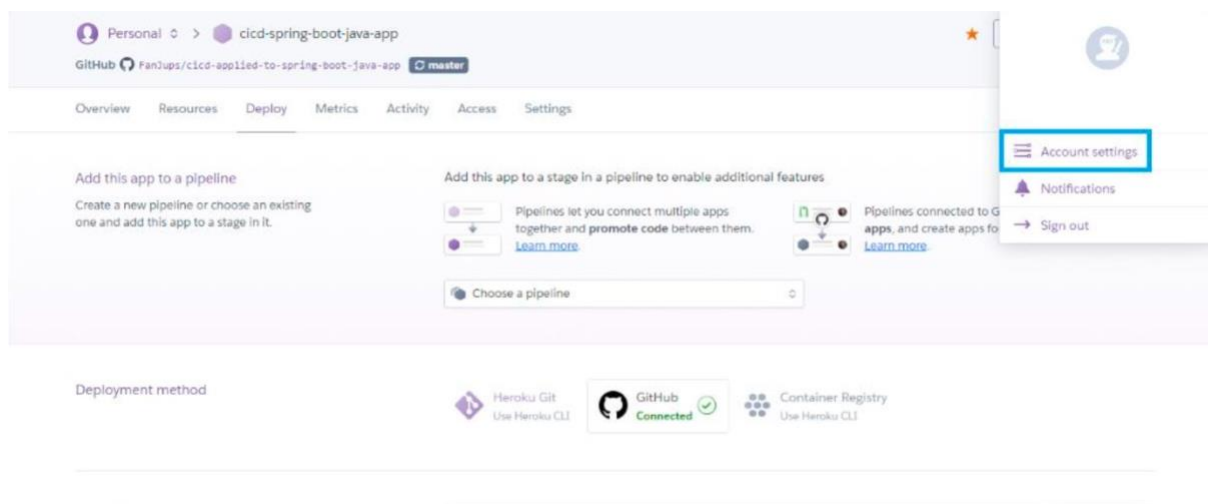
Step 5) Use SonarCloud to write stellar code

Step 6) Build a project site using GitHub site-maven-plugin

Step 7) Deploy the app on Heroku using heroku-maven-plugin

Deploy app on Heroku :

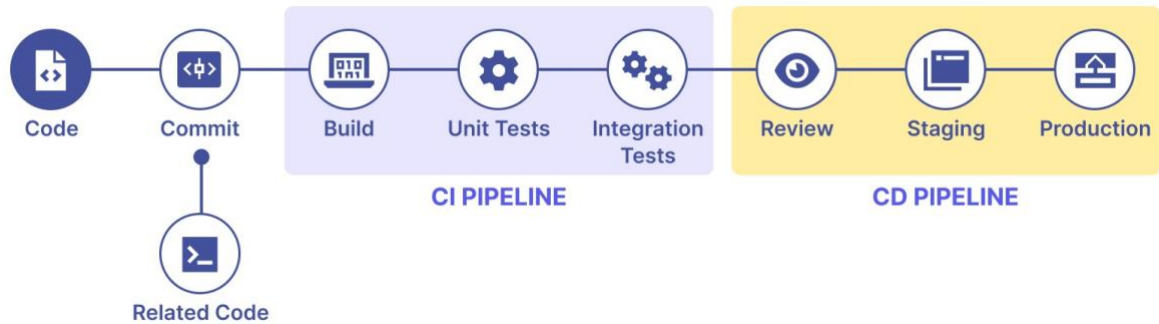
- Click on **New -> Create new app**. To continue, enter an app name (**cicd- spring-boot-javaapp**). **cicd-applied-to-spring-boot-java-app** is too long as an app name. Choose a region and click **Create app**.
- Next, click **Connect to GitHub**.
- Search the GitHub repository. Once you find it, click **Connect**.
- Check **Wait for CI to pass before deploy**.
- Click **Enable Automatic Deploys**.
- Go to **Account settings**



Tech stack :

- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

CI/CD pipeline :



GitHub Repo :

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