Phase 5 Project

CI/CD Deployment for Spring Boot Application - About

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GitHub Link:

https://github.com/Ramakrishana1/Phase5_Project

Project Objective:

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.

Background of the 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.

Tools & Technologies Used:

Eclipse, GitHub, Jenkins, AWS EC2/ Virtual machine

Following requirements are met as per the requirement:

- 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 Followed:

- Created the Spring boot project in Eclipse and compiled the code
- Run the code and test whether it’s working properly.

- Then push the code to GIT. (link mentioned above)
- Open Jenkins and start then create a new pipeline job in the Jenkins provide the git URL and configure it, write the suitable script suitable for your operation inside pipeline script.
- You can observe the pipeline job doing in the Job created in Jenkins. Output screenshot is attached in the Output section.
- Then created AWS EC2 instance with free version then install java, maven, git in the cloud instance.
- Then s3 bucket was created to store and move the jar file into cloud instance.
- Once it’s moved to cloud instance java –jar SpringBootRest.jar command was executed and application started successfully and required output was obtained.