CI/CD Deployment for Springboot Application..

Course-end Project 5

Description

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.

Step 1: Set up your development environment

1. Install Eclipse: Download and install the latest version of Eclipse IDE for Java development.

Step 2: Create a Spring Boot Application

1. Create a new Spring Boot Project:

   - Open Eclipse and create a new Spring Boot project.

   - Add necessary dependencies (like Spring Web, Thymeleaf, etc.) depending on the requirements of application.

2. Code Your Application:

   - Develop Spring Boot application according to the project requirements.

Step 3: Set up AWS EC2 Instance

1. Launch an EC2 Instance:

   - Log in to AWS console and launch a new EC2 instance. Ensure it has the necessary permissions to access application.

2. Configure Security Groups and Key Pair:

   - Set up security groups to allow traffic on necessary ports.

   - Attach a key pair for access to the instance.

   - connect to the EC2 instance .

Step 4: Set up Jenkins

1. Install Jenkins:

   - Download and install Jenkins on AWS EC2 instance.

2. Configure Jenkins:

   - Open Jenkins and set up initial configuration.

3.Add Deployment Stage:

   - In Jenkinsfile, add a stage for deploying the application to the AWS EC2 instance.

4.Update Jenkins Pipeline Configuration:

   - Configure the pipeline to include the deployment stage and update any necessary environment variables.

5. Set up Build Triggers:

   - Configure triggers to initiate the pipeline when changes are pushed to the repository.

6. After successful creating the image of the application deploy on the AWS EC2

Github Link: https://github.com/navyamanju/Spring.git