CI/CD Deployment for Spring-boot Application.

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Git-link: https://github.com/deekshasinghgaur97/CI-CD-Deployment-for-Springboot-Application..git

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.

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.

Eclipse:

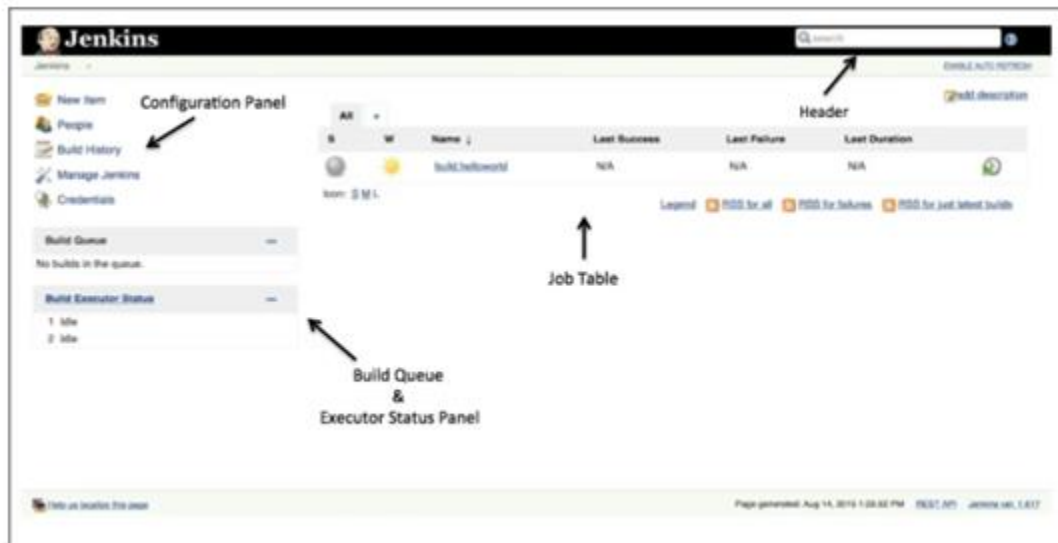**Eclipse** IDE is used for creating the entire java project and Spring boot project is used for creating the project.

The webpages are created using the html, CSS and Java script. User interface includes the pages that are attached with the screen shots.

Git-Hub:

The whole project is pushed to the git repository and from there we can manage and do the changes .

Jenkins:

Jenkins is defined as an open-source solution comprising an automation server to enable continuous integration and continuous delivery (CI/CD), automating the various stages of software development such as test, build, and deployment

AWS EC2/ Virtual machine:

The Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. You can add capacity (scale up) to handle compute-heavy tasks, such as monthly or yearly processes, or spikes in website traffic.

Private Key

Region

Availability Zone

Virtual private cloud (VPC)

Internet gateway

Public subnet

Security group

Instance

Amazon EBS

Volume