PHASE-5 DevOps PROJECT

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Important URLs: -

* Github Link : - <https://github.com/mdazaz/Simplilearn-Phase5-CI-CD-deployment>
* Jenkins dashboard job url:- <http://3.141.26.206:8080/>
* Credentials for Jenkins view only user: username= user1, password: pass123
* Host server app to view the deployed application: <http://3.141.26.206:8081/>

Steps: -

* Created an EC2 instance and started Jenkins on it:

An ec2 instance which has configured security group that allows users to access it through http protocol on port 80 and then install Java, Jenkins, maven, git and docker on it and make it accessible on port 8080 (default port of Jenkins server).

* Made a springboot application:

A springboot application that has following request urls.

1. /greeting -Which will show a sample greeting page.
2. / -sample index page
3. /hello another sample page.

It has Dockerfile with required dependency JDK-11.

* Upload it on Github:

Tracked the springboot application with version controlling system i.e. Git and then connected it with remote repository on Source code management system i.e. Github in the main branch.

* Make an host ec2 instance:

An ec2 instance which has configured security group that allows users to access it through http protocol on port 80 and install docker on it to run docker container.

* Created a Jenkins Pipeline job:

Created a pipeline job with steps:

1. SCM pull: pulls the source code from Github of the created springboot app.
2. Maven package: packages the source code pulled by step 1.
3. Docker Build : makes an image of the package created by Maven package with dockerfile in that springboot application.
4. Docker push: push the created image to dockerhub.
5. SSH login to Host ec2 instance through Jenkins credentials that has private key for the SSH.
6. Pull the docker image uploaded by Docker push step and run it as docker container and while running map the internal 8081 port (default springboot app server port) to that ec2 instance’s port 8081.
7. Running application can accessed by ec2 public ip : 8081 port.