**SimpliLearn Phase-5**

**Project Details**

**Project Name:**

CI/CD Deployment for Springboot Application.

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**Topic:**

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

**GitHub Repository Link:**

<https://github.com/simplilearn-sonali>

**Application Purposes:**

The application is built for following purposes:

* AWS S3 – Uploaded and hosted the .jar file of the Springboot application to AWS S3 bucket
* AWS EC2 Instance – Created an Elastic Cloud (EC2) instance on AWS and installed Jenkins on TCP port 8080
* Connect to EC2 from Terminal – Connect to the EC2 instance using SSH from terminal
* Run the .jar file from AWS S3 bucket on EC2 instance on Terminal
  + Used command –

$ wget <https://simplilearnphase5assignment.s3.us-east-2.amazonaws.com/SpringBootWebApplication-0.0.1-SNAPSHOT.jar>

* Installed Jenkins on port 8080 on EC2 – Check Jenkins status on connected EC2 instance
* Visit Jenkins and login – Visit on <ipaddr>:8080 and create a new item Jenkins Pipeline project to CI/CD our Springboot Web application
* Jenkins Pipeline Build – Have mentioned ‘Polle SCM’ as ‘\* \* \* \* \*’ – means it happens once every hour

**Tools used:**

AWS, Eclipse, Spring Tools, Jenkins, GitHub

**Technologies used:**

Maven, Java, Bootstrap, HTML, etc.

**Running unit tests**

Run ng test to execute the unit tests via [Jenkins](https://karma-runner.github.io/)

What is Jenkins – A tool to perform Continuous Integration/ Continuous Deployment of the applications. Here, I have used the source code from GitHub repository