**KUB-MULTI-PROJECT EXCECUTION STEP BY STEP**

1. Clone kub-multi-project Code from basil1987/kub-multi-project on to a AWS Machine

[*https://github.com/basil1987/kub-multi-project.git*](https://github.com/basil1987/kub-multi-project.git)

1. Create a new repository and Push the code to Git Hub
2. Using Jenkins automate the Build, tagging, Docker Image creation and Docker run
3. Create a new item in Jenkins and start automating the tasks
4. Under Build, select Execute Shell and configure the below steps
5. Build the code using Different Build tools

*#Build JavaScript code*

*cd sa-frontend*

*npm install*

*npm run build*

*#Build Java code*

*cd sa-webapp*

*mvn install*

*#Tag and Build Docker Images for all projects*

*cd sa-frontend*

*docker build -t sa-frontend:1.0.0 .*

*cd ../sa-webapp*

*docker build -t sa-webapp:1.0.0 .*

*cd ../sa-logic*

*docker build -t sa-logic:1.0.0 .*

*#Tag all docker images*

*docker tag sa-frontend:1.0.0 swaraj452/sa-frontend:1.0.0*

*docker tag sa-webapp:1.0.0 swaraj452/sa-webapp:1.0.0*

*docker tag sa-logic:1.0.0 swaraj452/sa-logic:1.0.0*

*#Login to Docker*

***cat /var/lib/jenkins/my\_password.txt | docker login --username swaraj452 --password-stdin***

*#Push the Docker Images*

*docker push swaraj452/sa-frontend:1.0.0*

*docker push swaraj452/sa-webapp:1.0.0*

*docker push swaraj452/sa-logic:1.0.0*

*Note : Create a my\_password.txt file in /var/lib/Jenkins and provide with Docker Hub Password, this will allow Jenkins to push Docker images to Docker Hub*

1. Go to dashboard and run Build on left side of the window. Go to console by clicking on the Build process and check the process execution on command line*.*
2. We can automate the Build process as well by configuring the BUILD TRIGGERS in Jenkins

Check POLL SCM and enter “\*/5 \* \* \* \*” to configure Jenkins to check GitHub very 5 minutes for any commits made

Check Build Periodically to configure for any scheduled time for build process*.*