Demo Document - 1



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Demo: Deployment of Java App as per Jenkins free style project

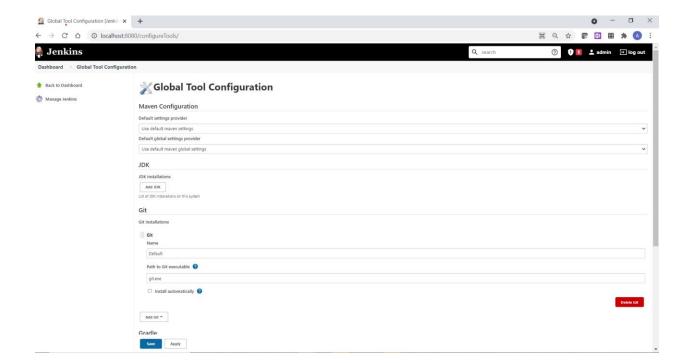
Problem statement: Execute commands to do deployment of JAVA application using Jenkins freestyle project

Solution:

Step 1: This demo will help the participants to understand how to build JAVA application using freestyle project in Jenkins.

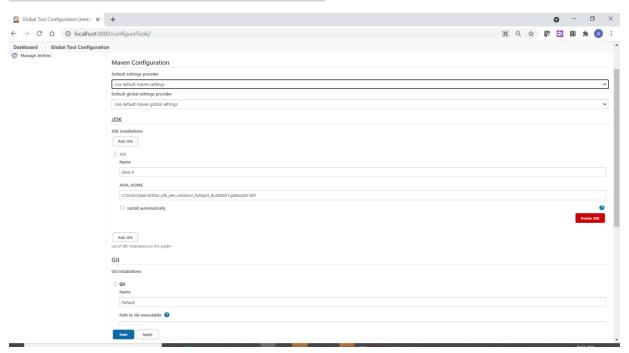
Please start Jenkins using preferred option. We will be configuring JDK and Maven globally for the Jenkins environment.

URL to access: http://localhost:8080/configureTools/



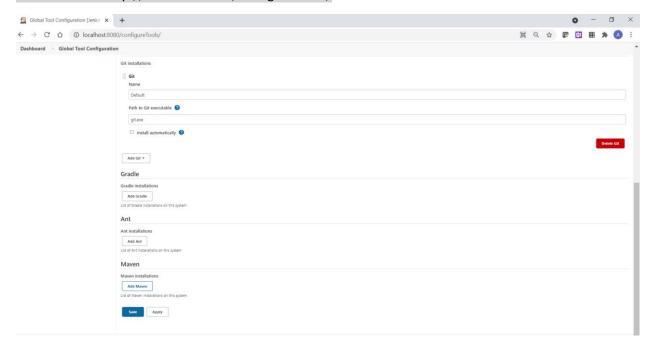
Step 2: In this step, you will configure JDK pointing to local JDK available on your workstation. You do have an option of installing the tools automatically. But we won't be using it.

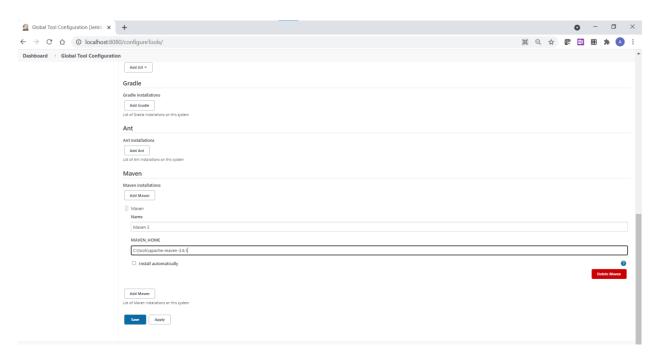
URL to access: http://localhost:8080/configureTools/



Step 3: In this step, you will configure Maven pointing to local Maven available on your workstation.

URL to access: http://localhost:8080/configureTools/

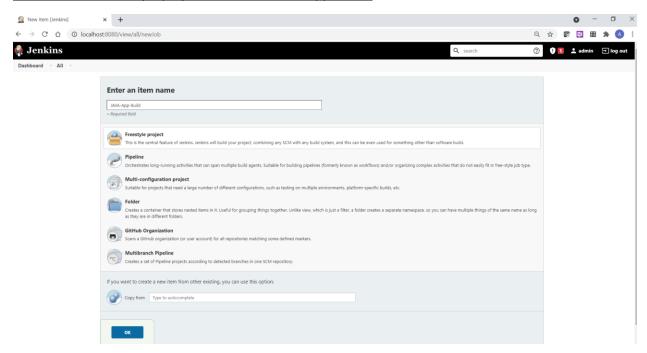




Step 4: Now we will create a Jenkins freestyle project.

URL to access: http://localhost:8080/view/all/newJob

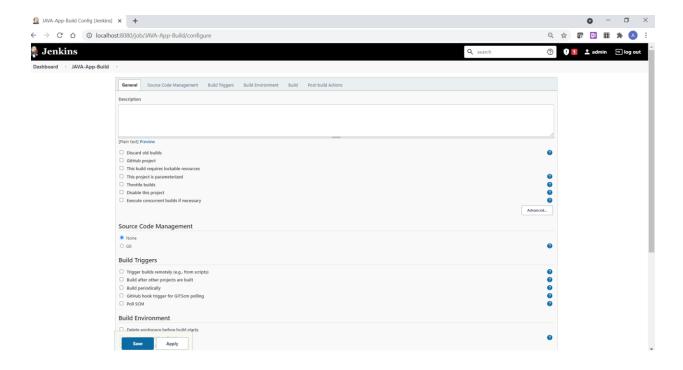
Please create a freestyle project named as 'JAVA-App-Build'.



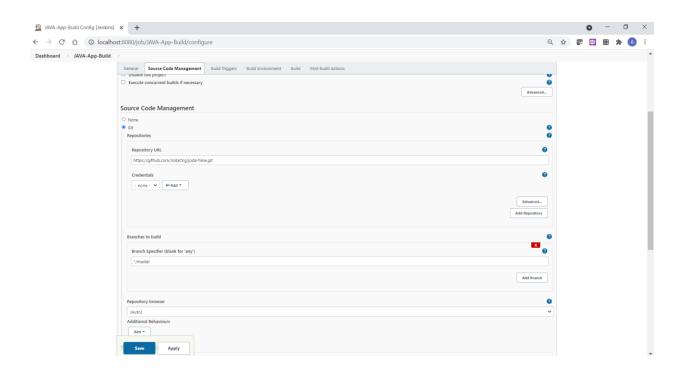
This step will create a freestyle project. In freestyle project type, we need to use specific set of configurations provided by Jenkin tool.

Step 5: Let's configure GIT repository for the freestyle project.

URL to access: http://localhost:8080/job/JAVA-App-Build/configure



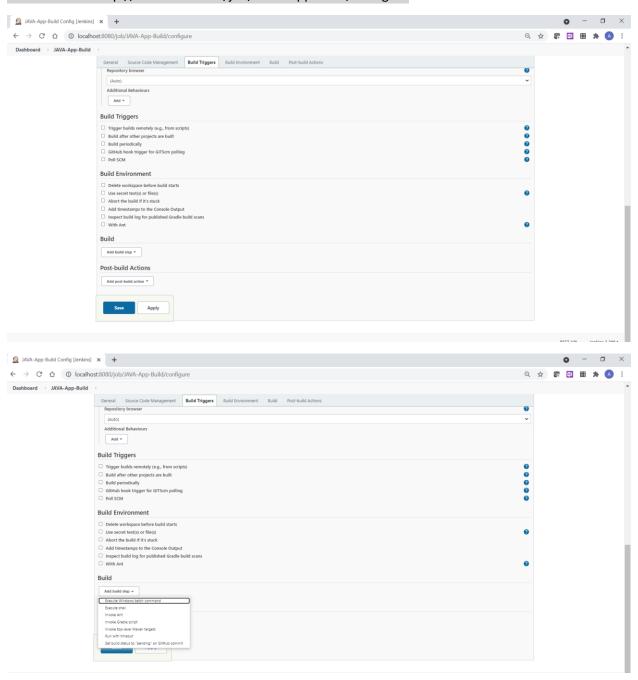
Git url - https://github.com/JodaOrg/joda-time.git

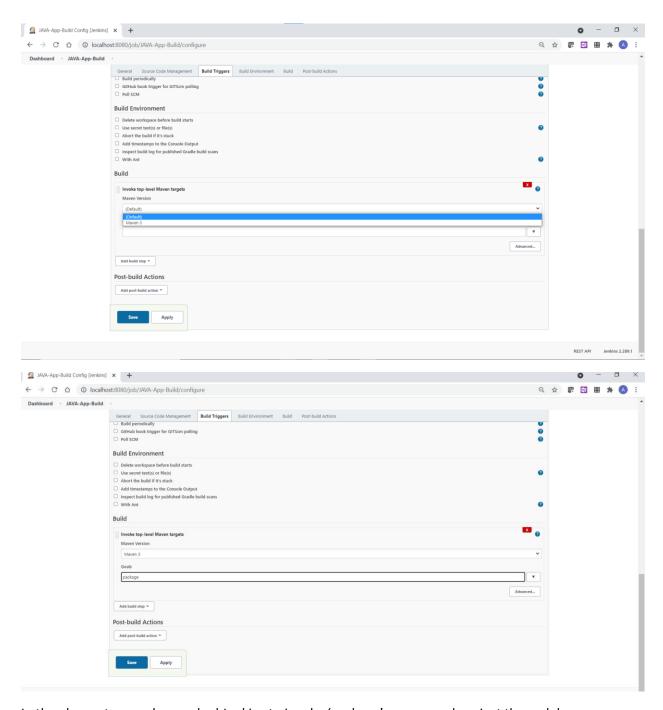


In this step, we are trying to refer a JAVA project which implements Joda-Time. Joda-Time provides replacement for JAVA date and time classes.

Step 6: Now we will add build step to invoke maven targets.

URL to access: http://localhost:8080/job/JAVA-App-Build/configure



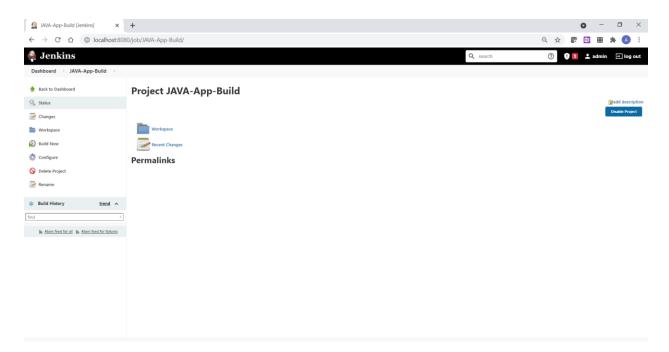


In the above step, we have asked Jenkins to invoke 'package' maven goal against the codebase.

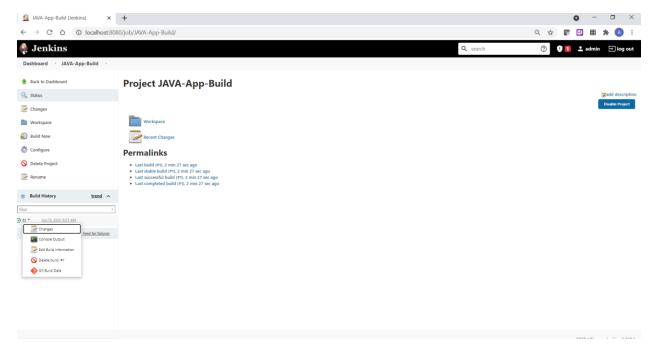
Step 7: Now we will build the project.

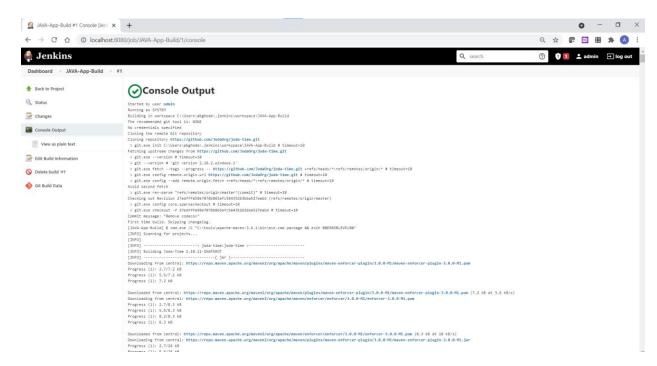
URL to access: http://localhost:8080/job/JAVA-App-Build/

Click on 'Build Now'

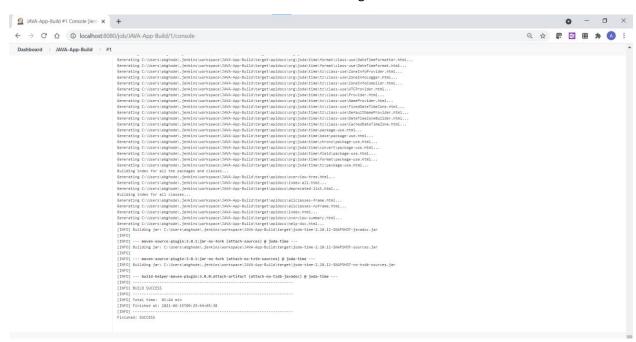


You can see that first build is initiated. To observe the build, you can click on 'Console output'.





Please scroll to the end. You should be able to see a message 'Finished: Success'



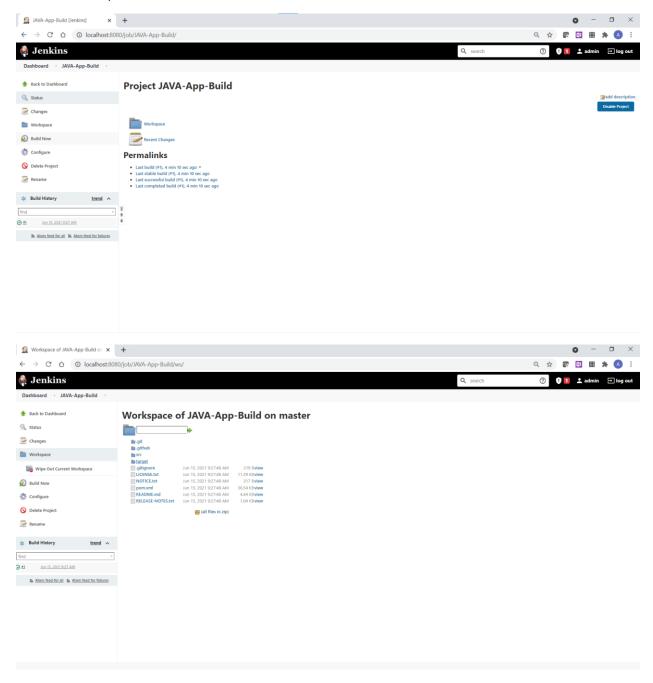
In this step, we have now executed 'package' maven goal. Please note this build is being performed in Jenkins environment.

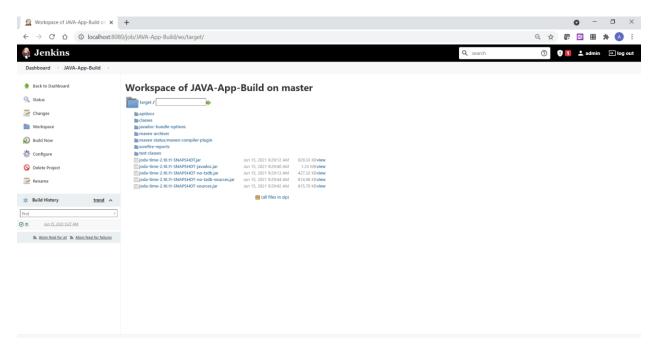
So you can see that there is a parity between this build and the build that you may have performed on your DEV environment.

Step 8: Watch the workspace of your freestyle project for the application artifact (*.jar)

URL to access: http://localhost:8080/job/JAVA-App-Build/

Click on 'Workspace'





Your Jenkins build has created set of artifacts in the targets folder of your codebase now.