CONTINUOUS INTEGRATION WITH JENKINS

Jenkins build pipeline

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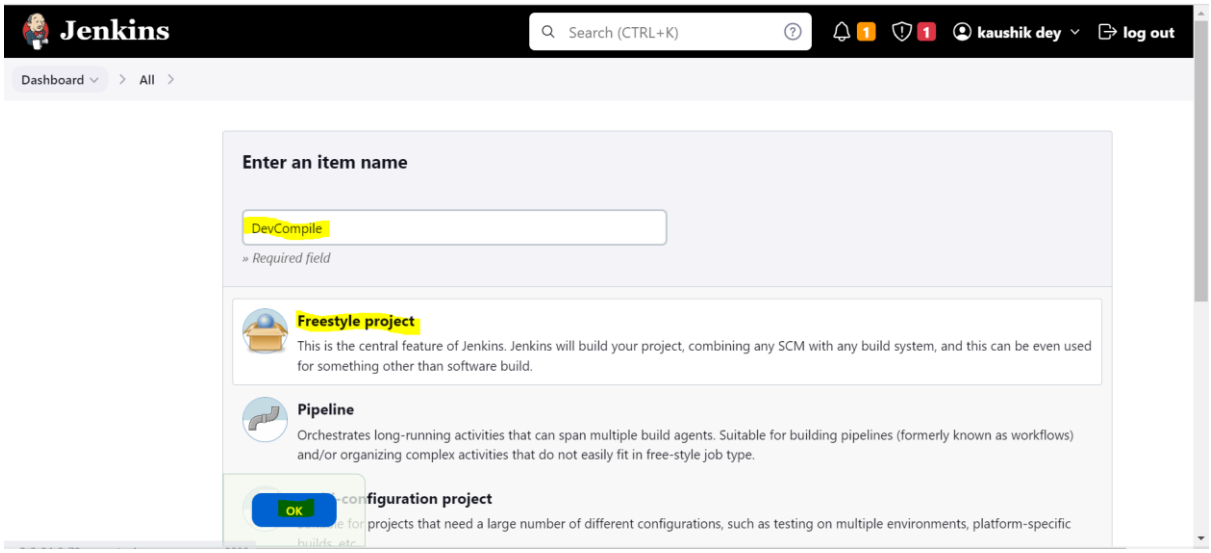
Continuous Integration With Jenkins

Step1 : Create Pipeline view using DevCompile and QAUnitTest.

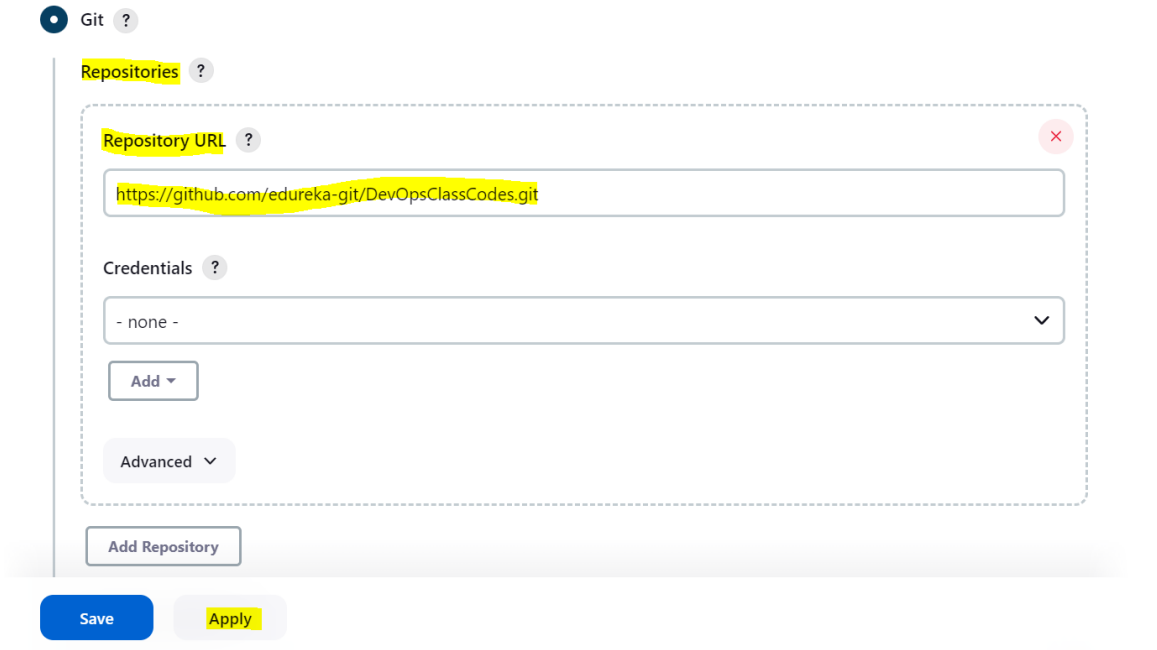


Step 2 : After creating the free style project we must add our git repository , in my case using this following

git repo : https://github.com/edureka-git/DevOpsClassCodes.git (public repo)

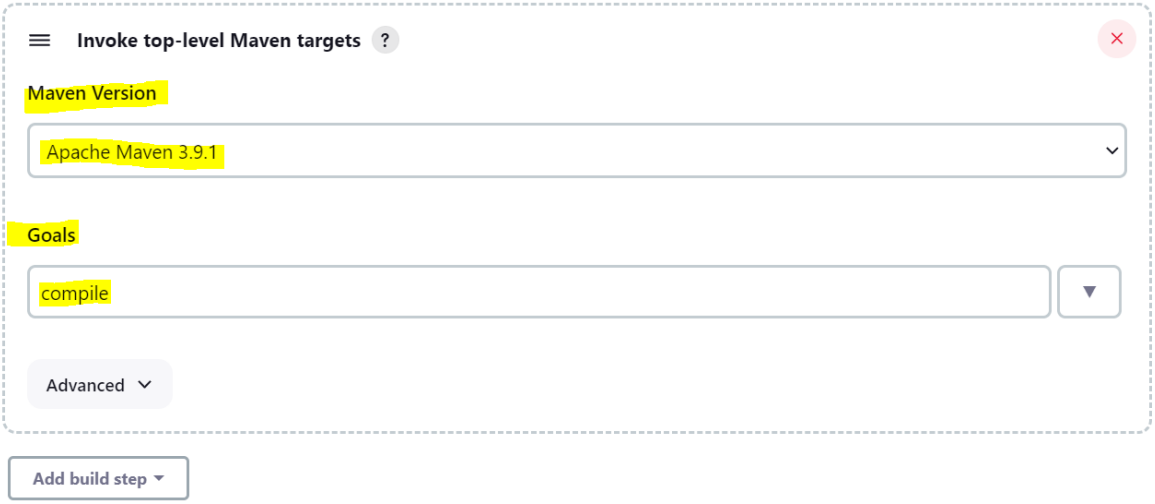
credentials None.

After that apply the changes.



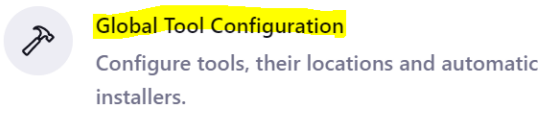
In later stages we can also add our branches.

Step 3 : now we can concentrate on build steps , in this case please choose **Invoke top-level Maven targets.** The screenshot is given below.

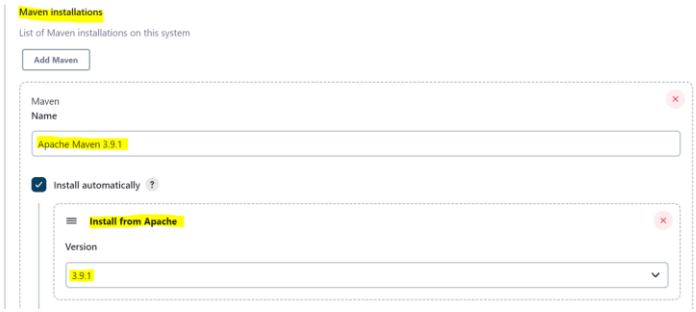


Note : In first time MVN is not installed in the Jenkins workspace , first we have to install it via global configuration, the screenshot is given below.

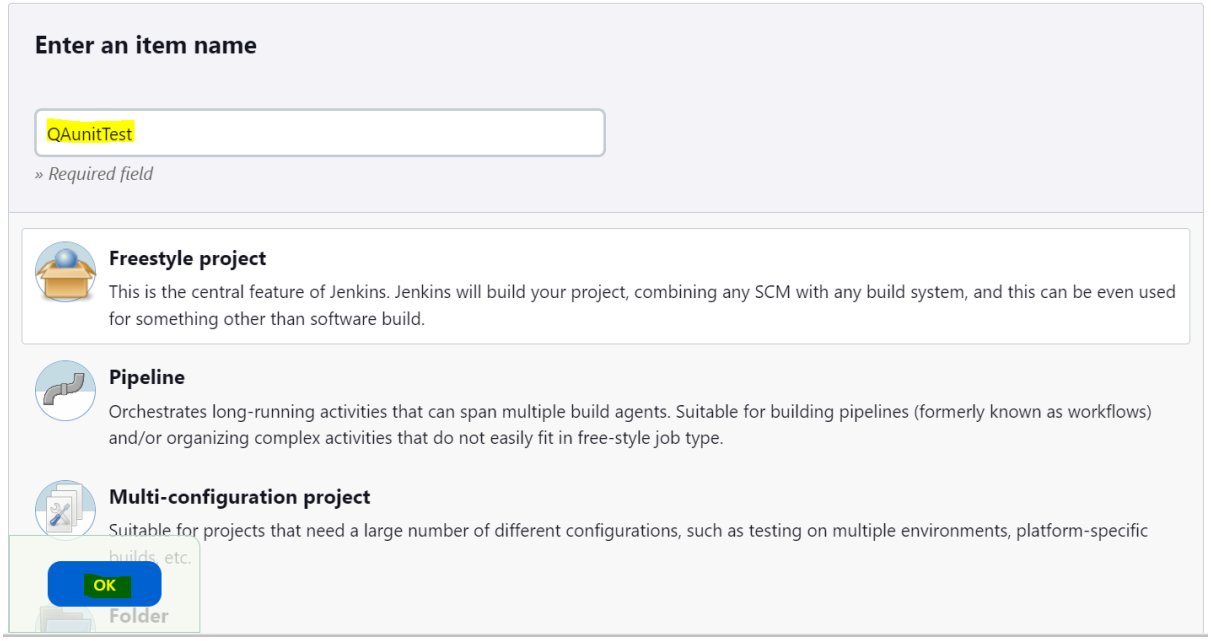
First navigate to Global Tool Configuration from Managed Plugins

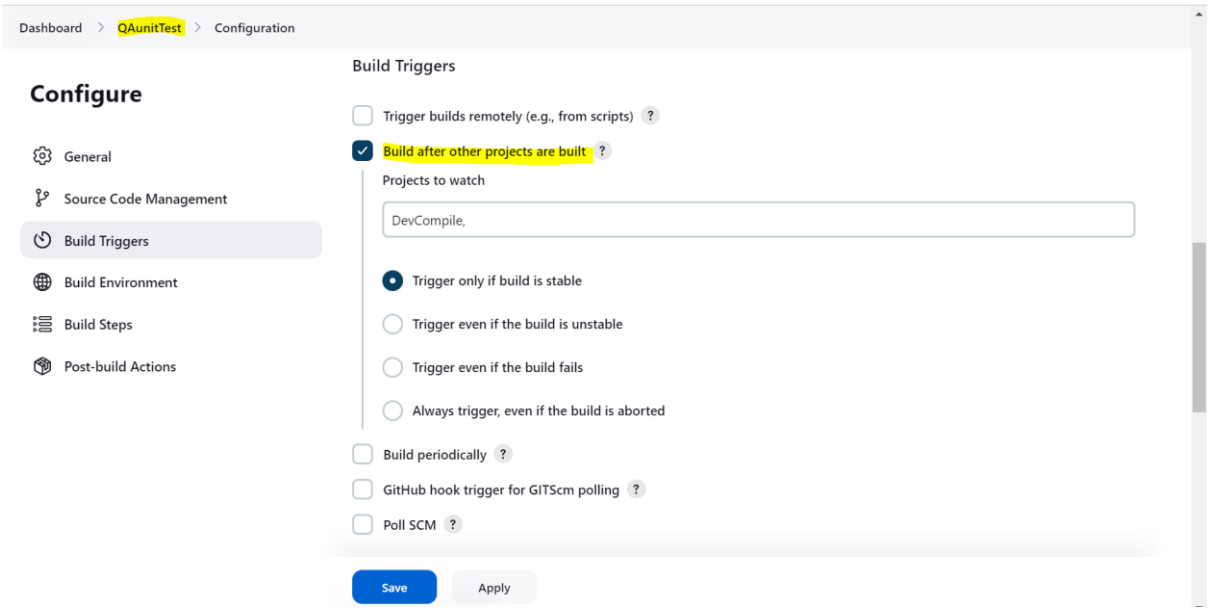


And then

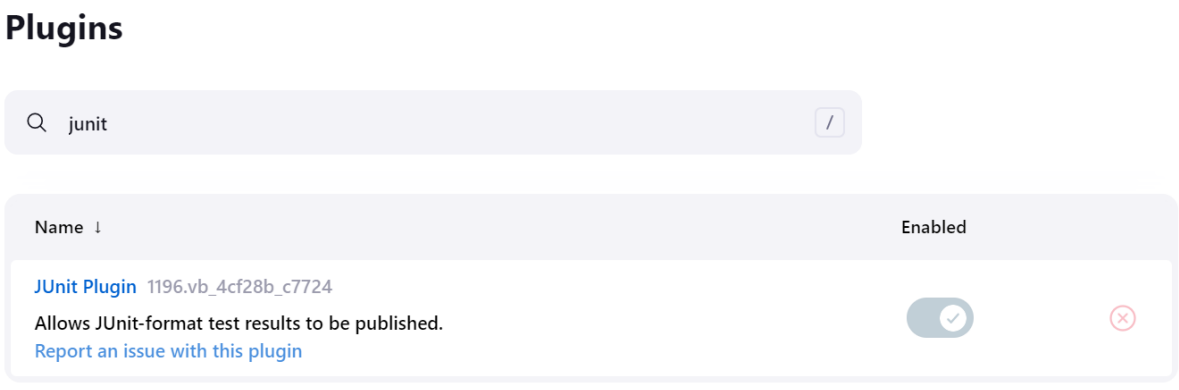


Step 4 : Create QAunitTest project and provide the same SCM path and execute it after DevCompile Action by setting build.

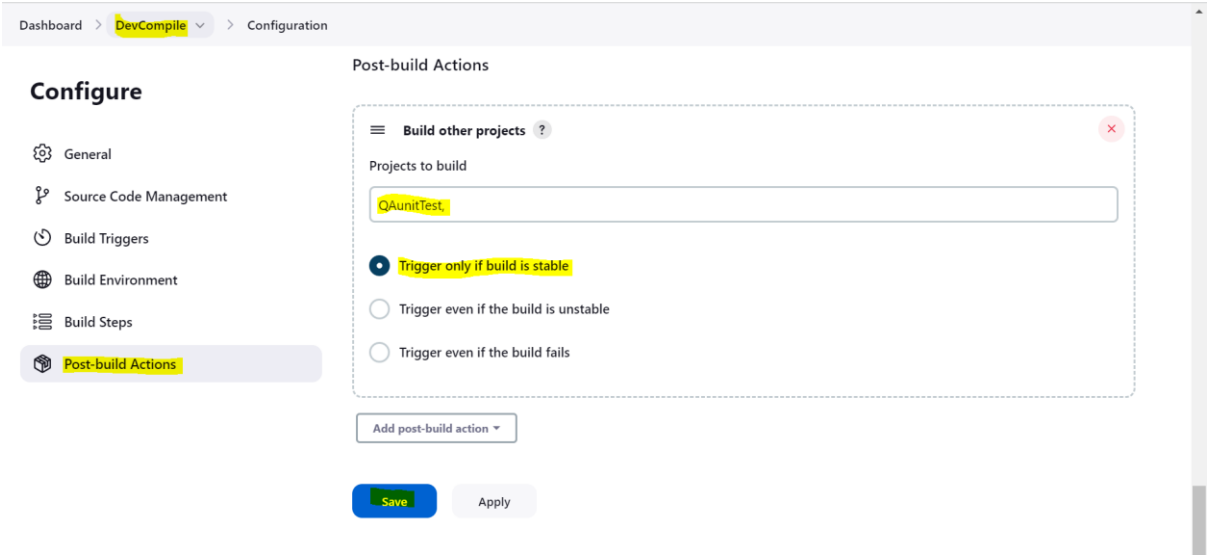




Step 5 : Check Junit plugins are present or not, the screenshot is given below.



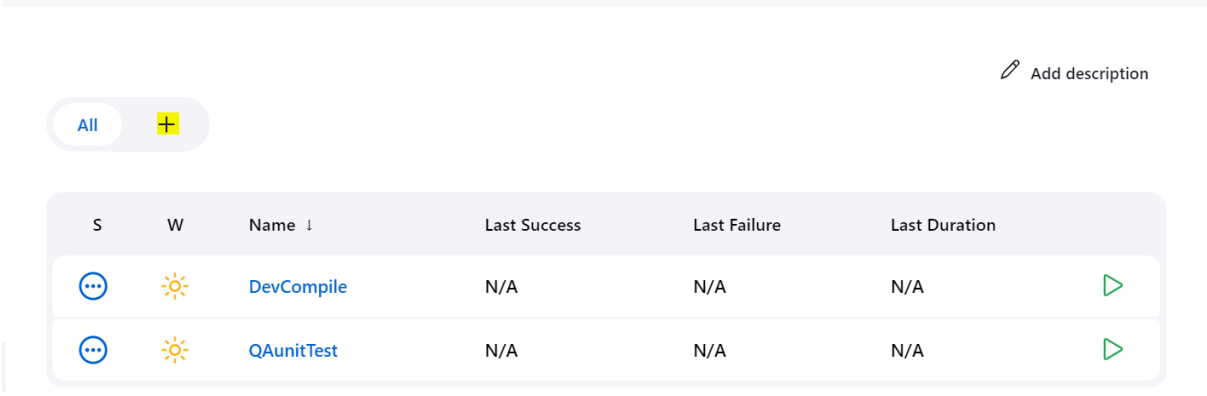
Step 6 : Configure DevCompile project and set post-build action as QAUnitTest.



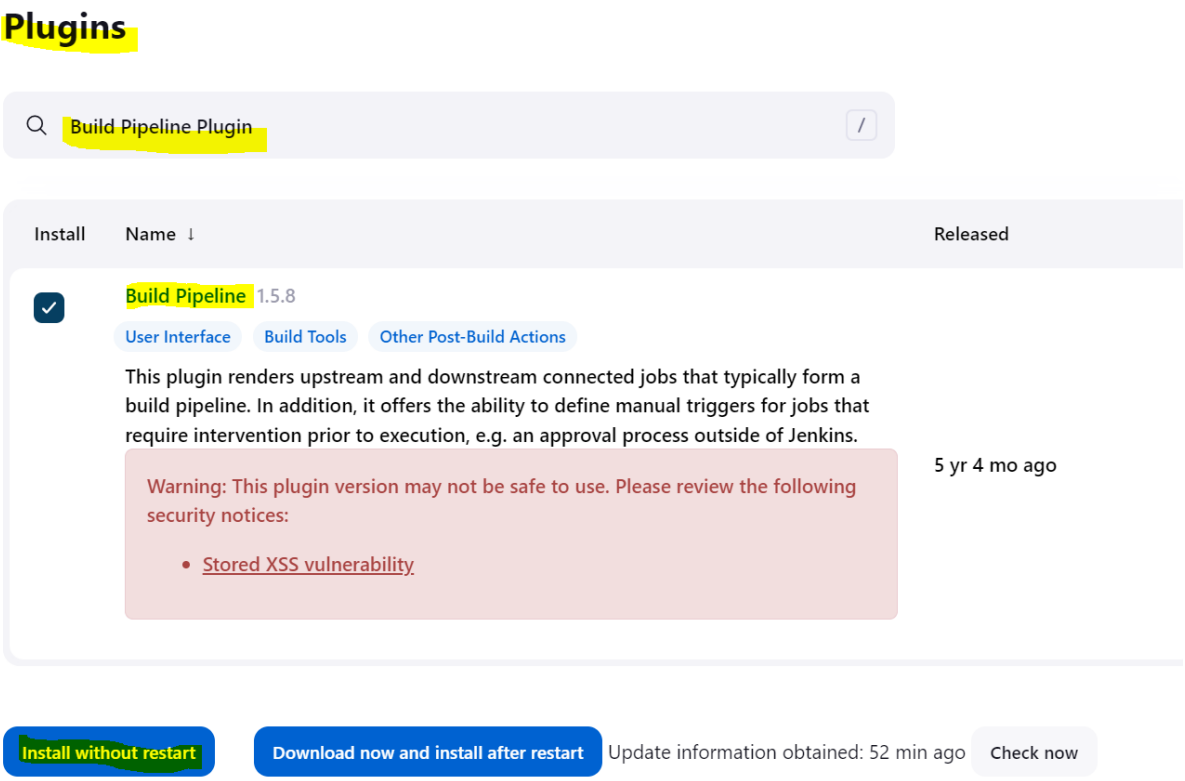
Step 7 :

- ✓ Go to Jenkins Dashboard and click on the "+" button. That button is for adding a view.
- ✓ You will be redirected to the following screen.
- ✓ Give the View name and Select the build Pipeline View radio button, and press OK.

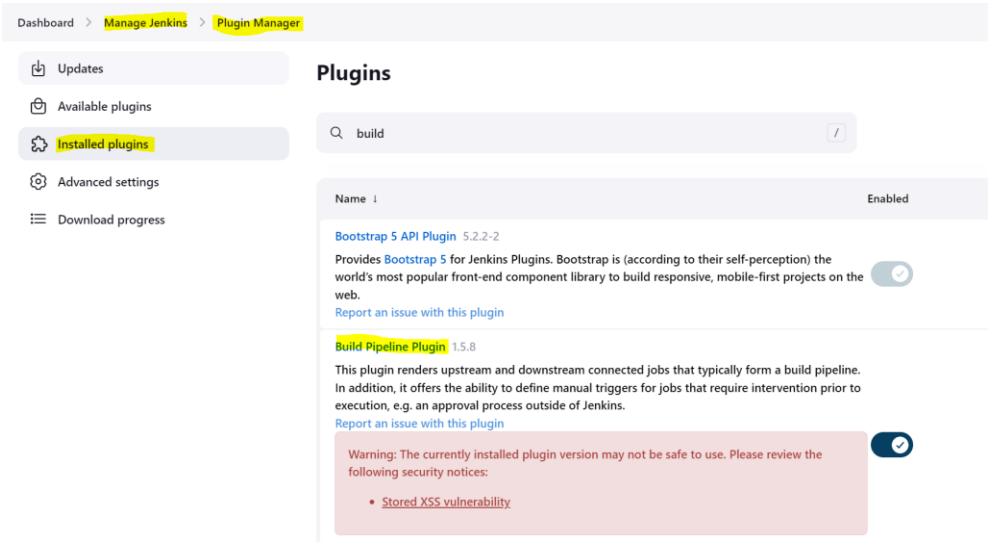
Screenshot 1 :



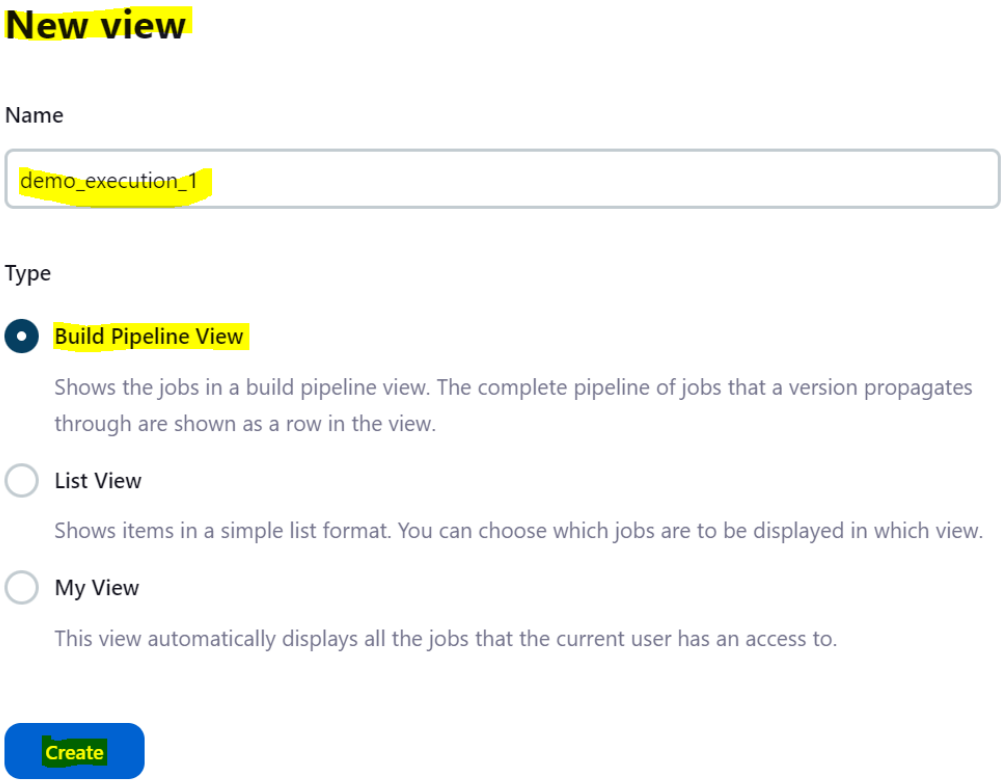
Screenshot 2: before going to the new view we have to install build pipeline plugins, so all jobs should be showing as in pipeline interface, the screenshot is given below.



✓ Now we can check that plugins are installed or not, if it is installed it should be present in installed plugins. The screenshot is given below.

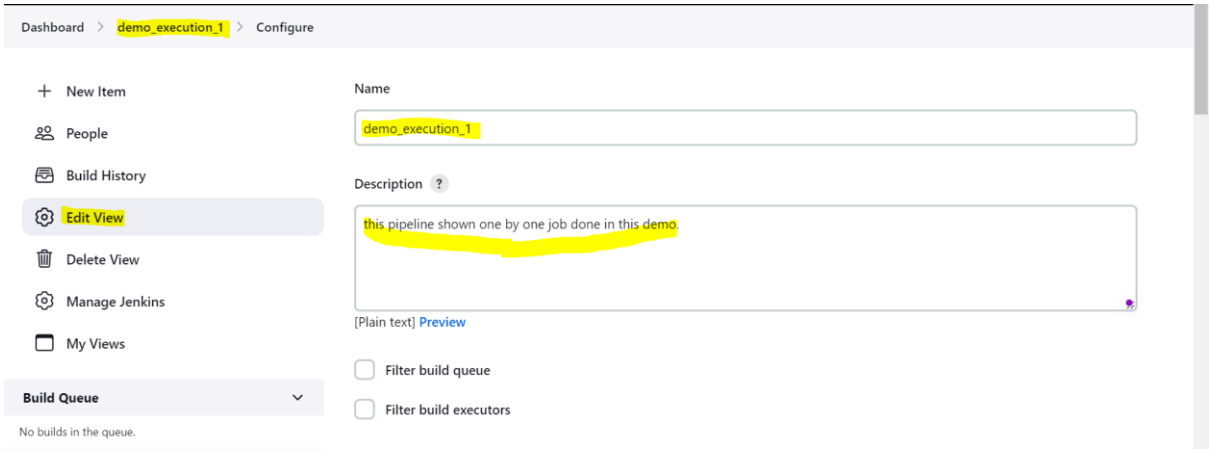


Screenshot 3 :

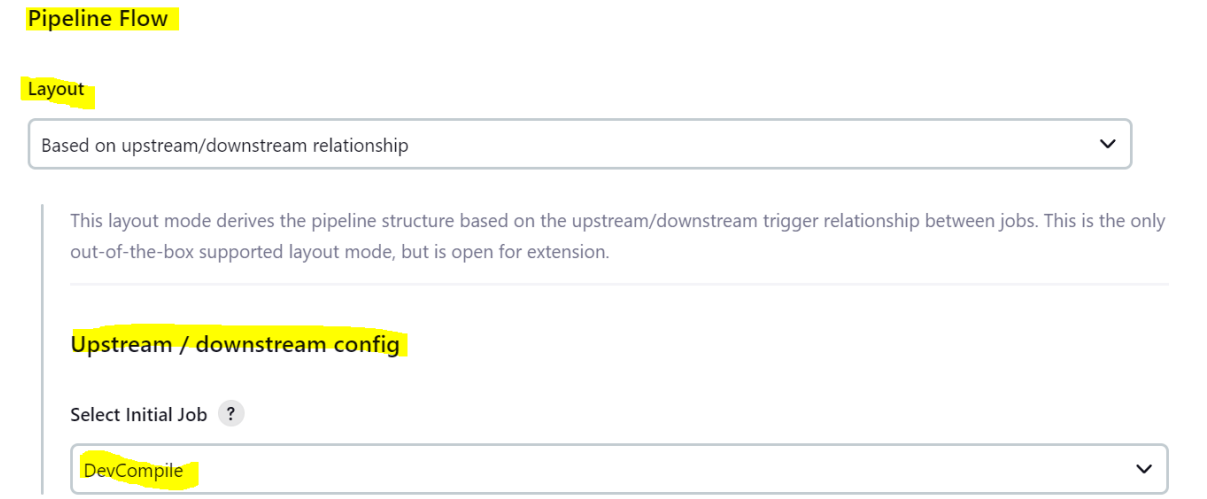


Step 8 : Now we have to configure build pipeline view.

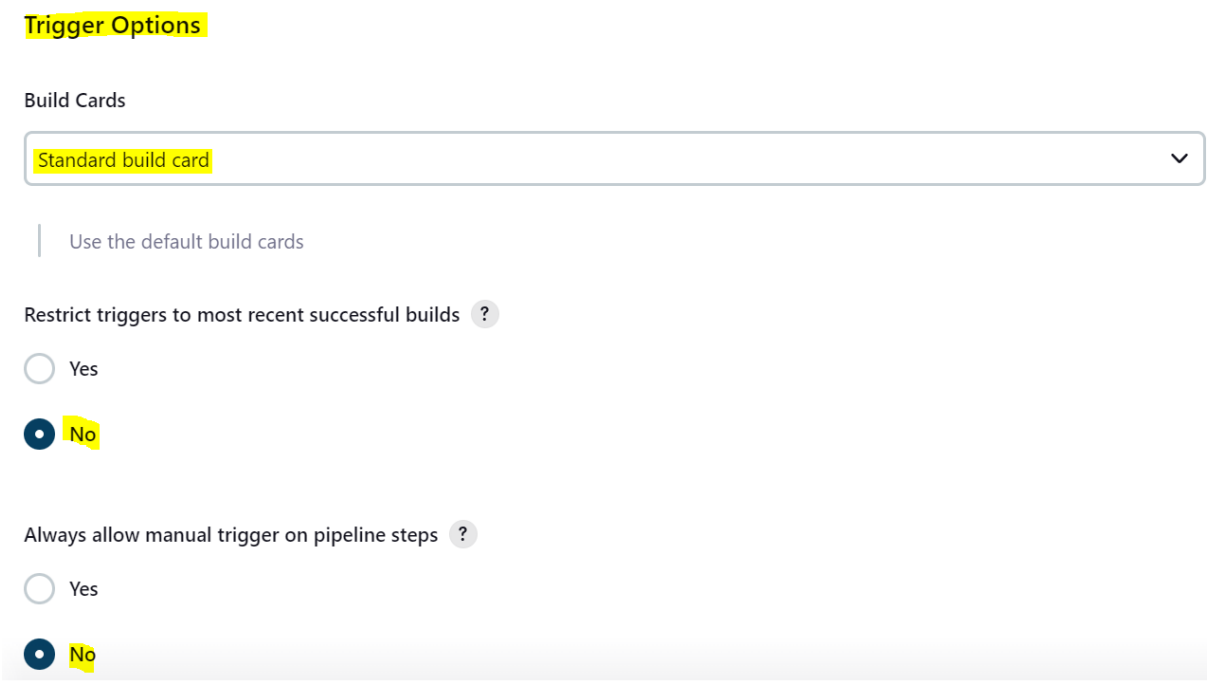
Screenshot 1:



Screenshot 2:

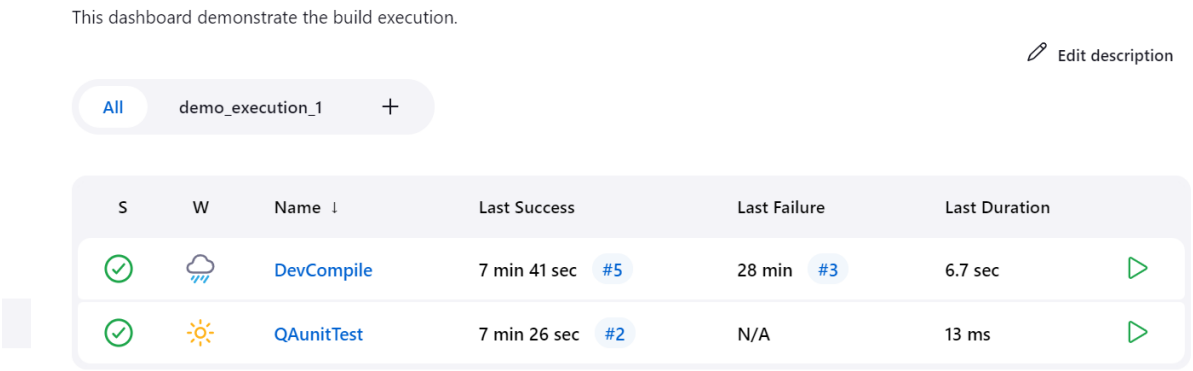


Screenshot 3:



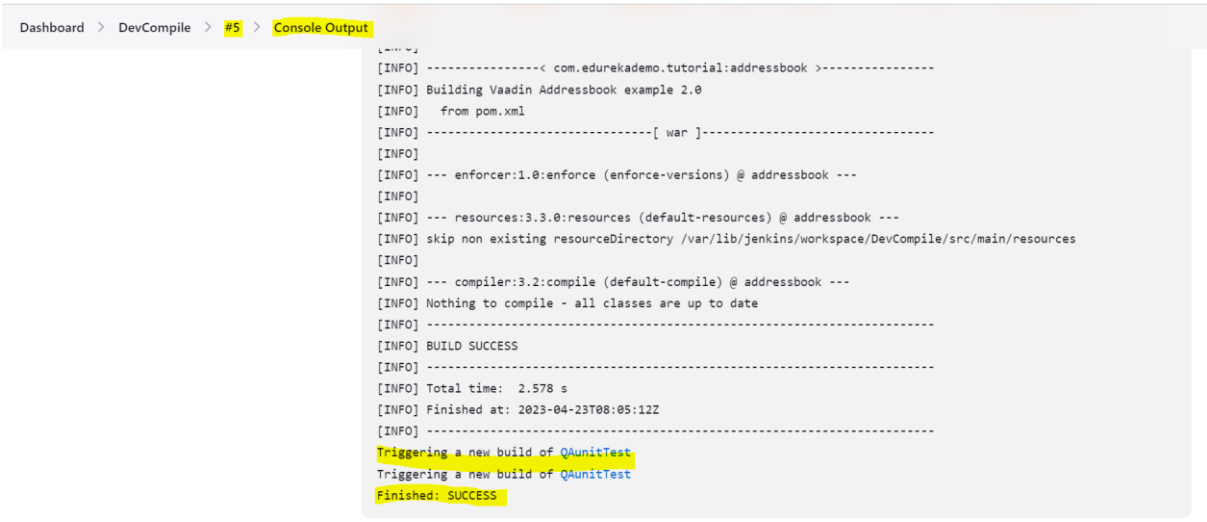
Then click on OK button to proceeds.

Step 9 : our jobs (Upstream and downstream) done successfully. We can see the following output.

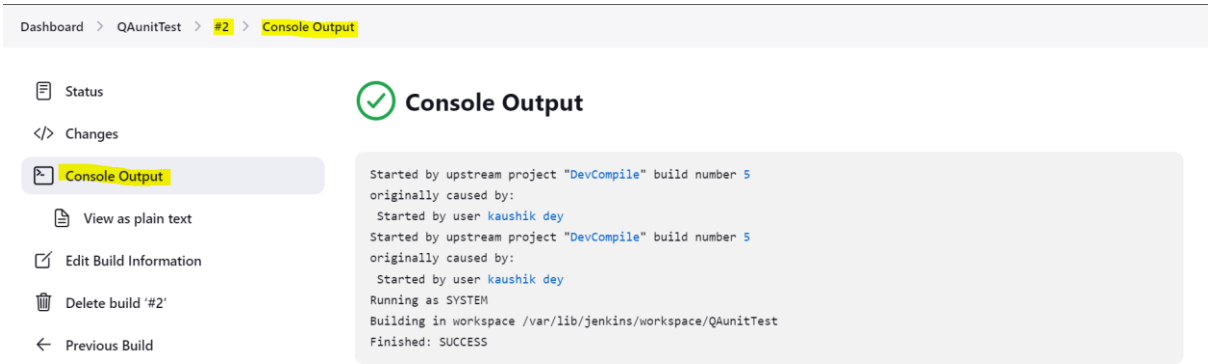


Step 10 : we can see the console output of this two jobs , the screen shot is given below.

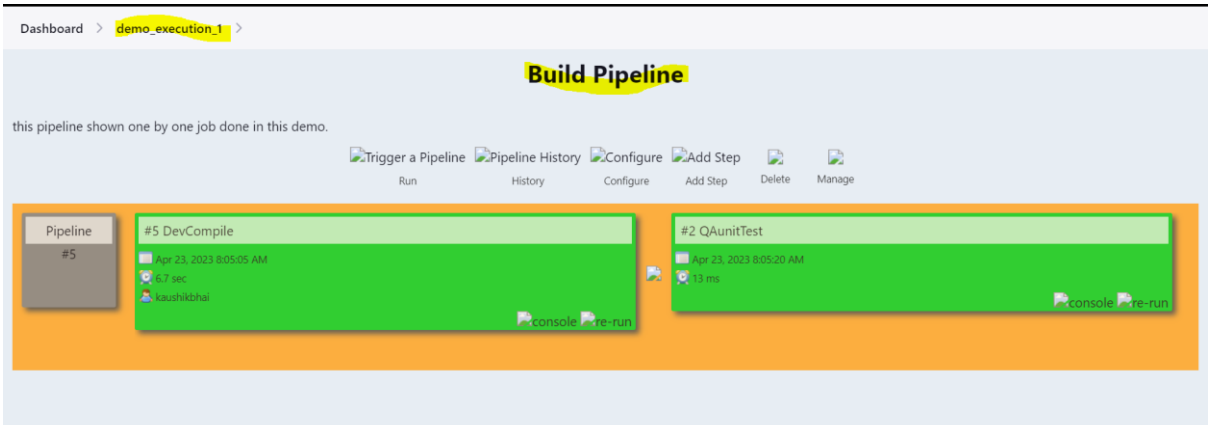
Screenshot1 : This is my build no.5 and the console output is that. (DevCompile). Also noticed that **Triggering a new build of QAUnitTest**



Screenshot2 : This is my build no.5 and the console output is that. (QAUnitTest)



Step 11: Now we can see the pipeline view of this job, just click on demo_execution_1. The screenshot is given below.



Conclusion: Successfully build the pipeline with upstream and downstream the project.