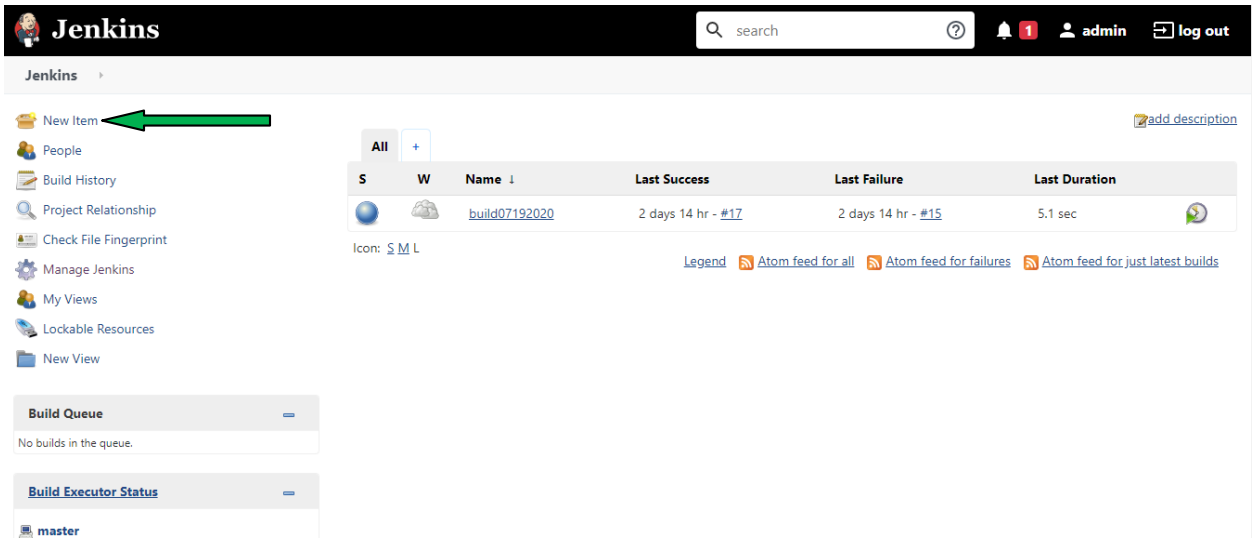
Jenkins Freestyle Job Step-by-Step Procedure

Configuring Freestyle Job in Jenkins:

Jenkins is an Automation / orchestration tool. Using Jenkins we can automate almost any type of task that we perform in SDLC as part of Development, QA, and Operation team's responsibilities.

1) TO start creating a Freestyle Job in Jenkins, click on the *New Item* link on the home page.



2) In the Job Template selection page as shown below, enter unique name (combination of char, number in small case) and select 'freestyle project' option and click on *OK* button.

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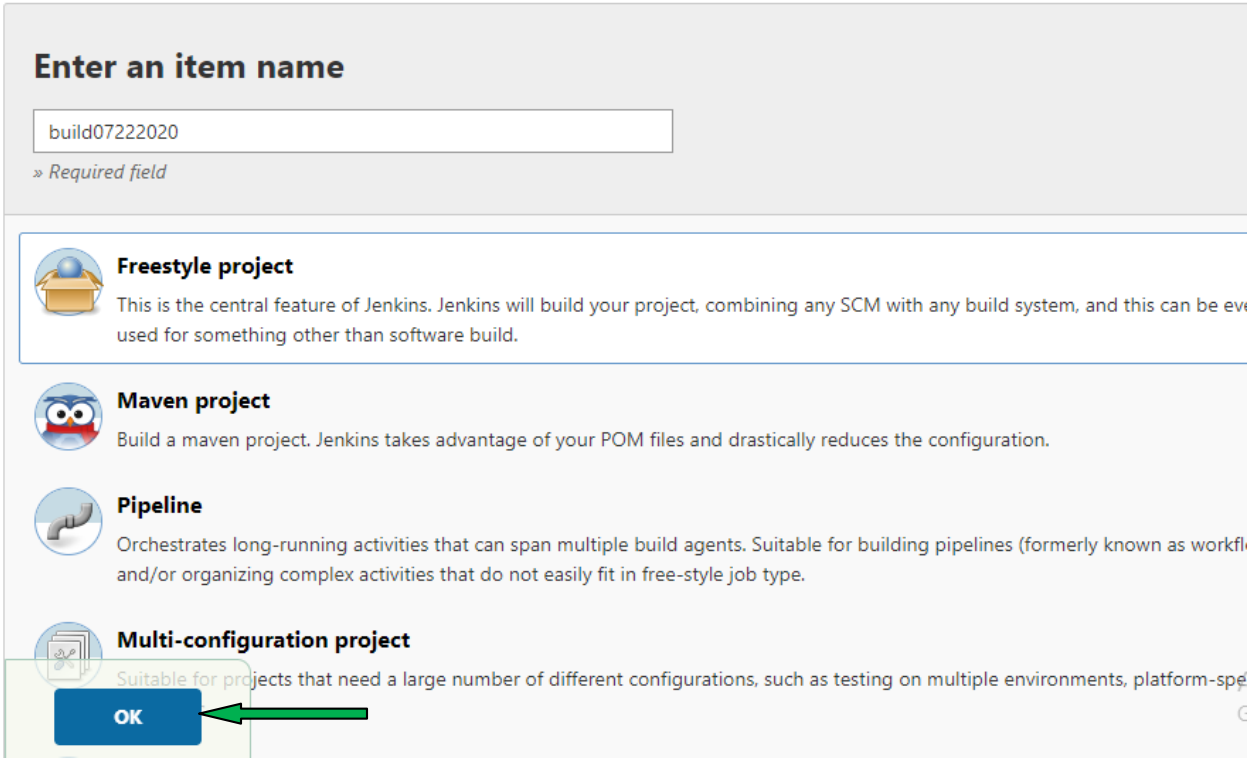
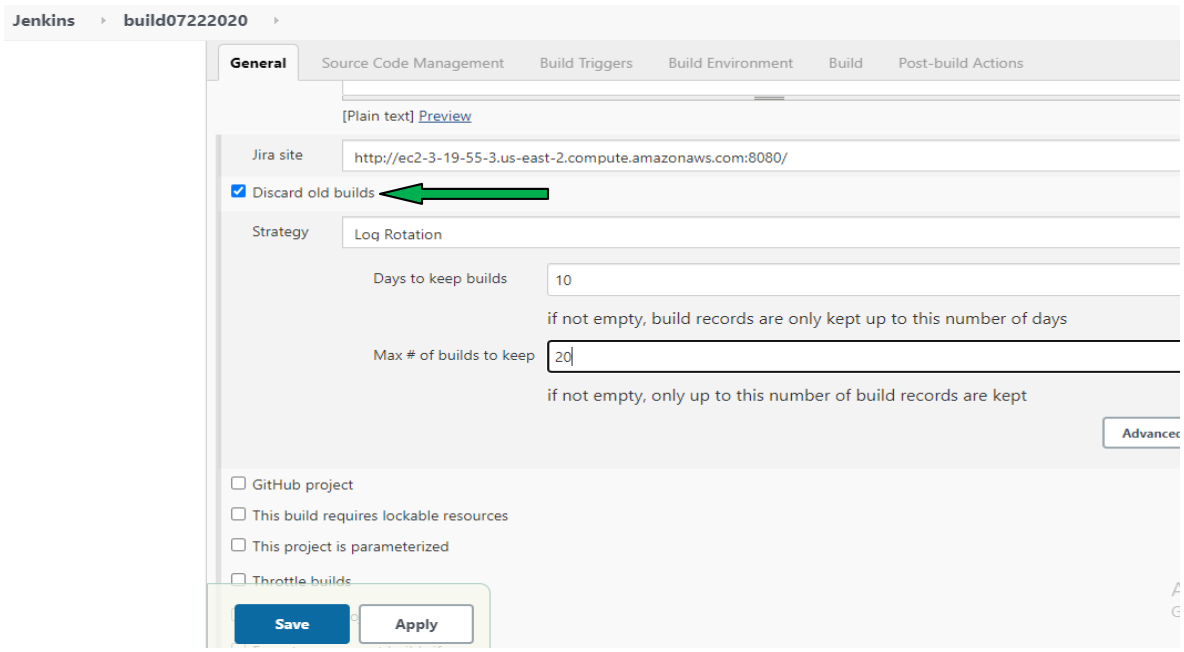
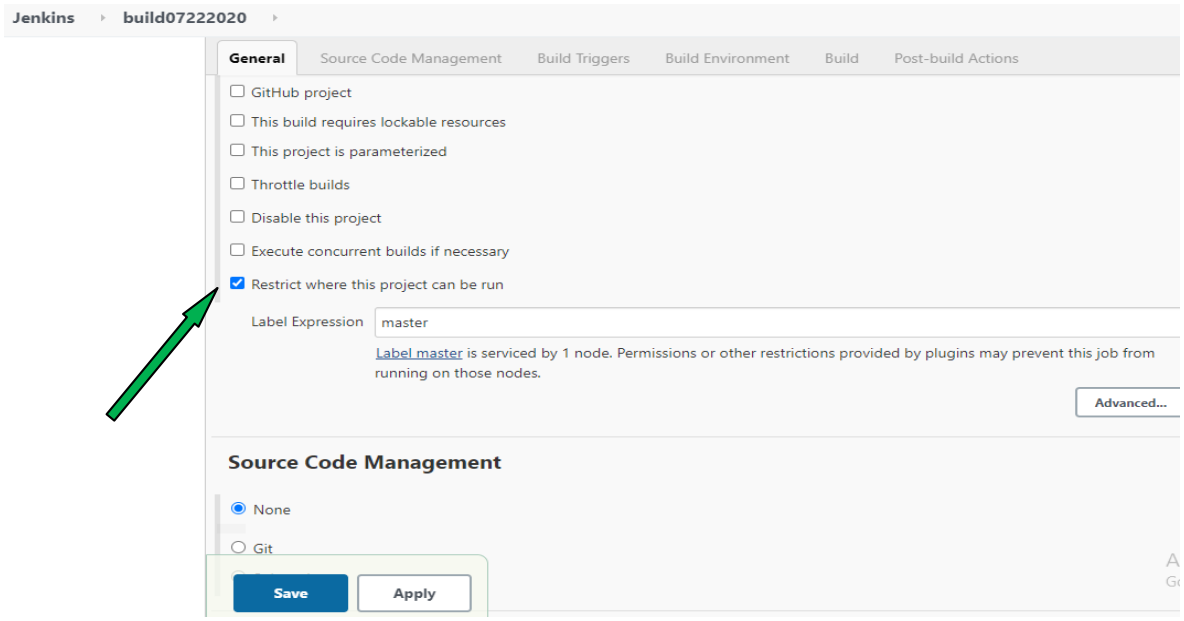


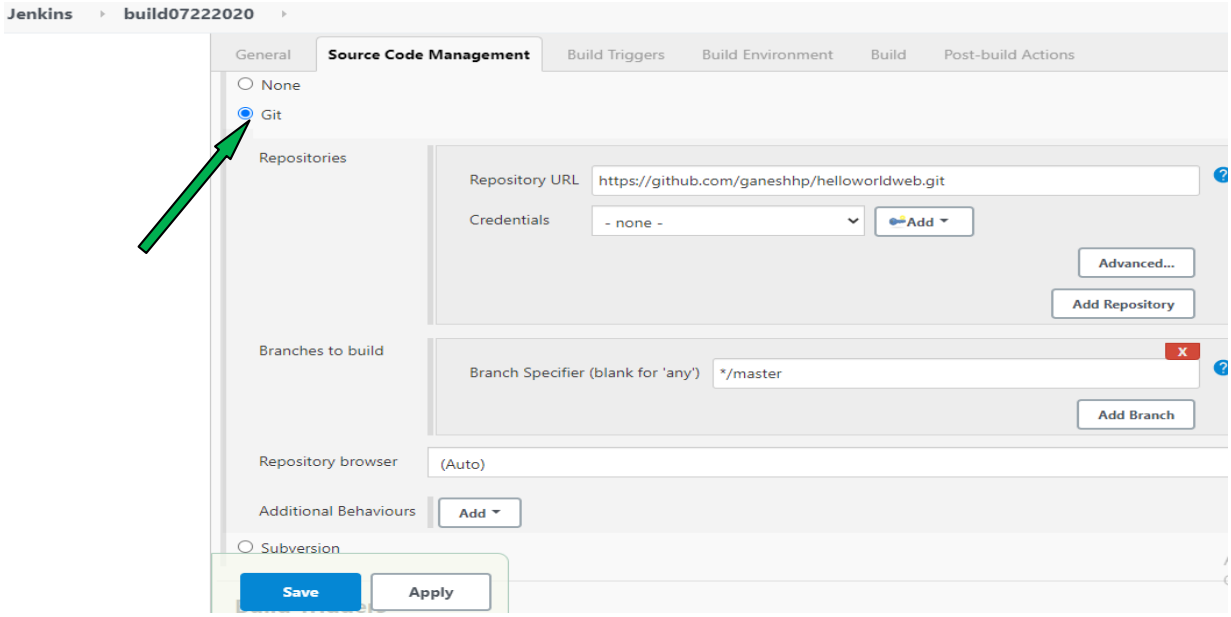
3) On the job configuration page, we get diff configurable items displayed in the tabs, '*General', 'Source Code Management', 'Build triggers'* etc. The first configuration that we need to update is in General configuration tab.
4) Select *'Discard Old Builds'* options for setting a policy of Log rotation. Here provide a value in number of days that we want to keep the logs for and number of builds. See below image for example.



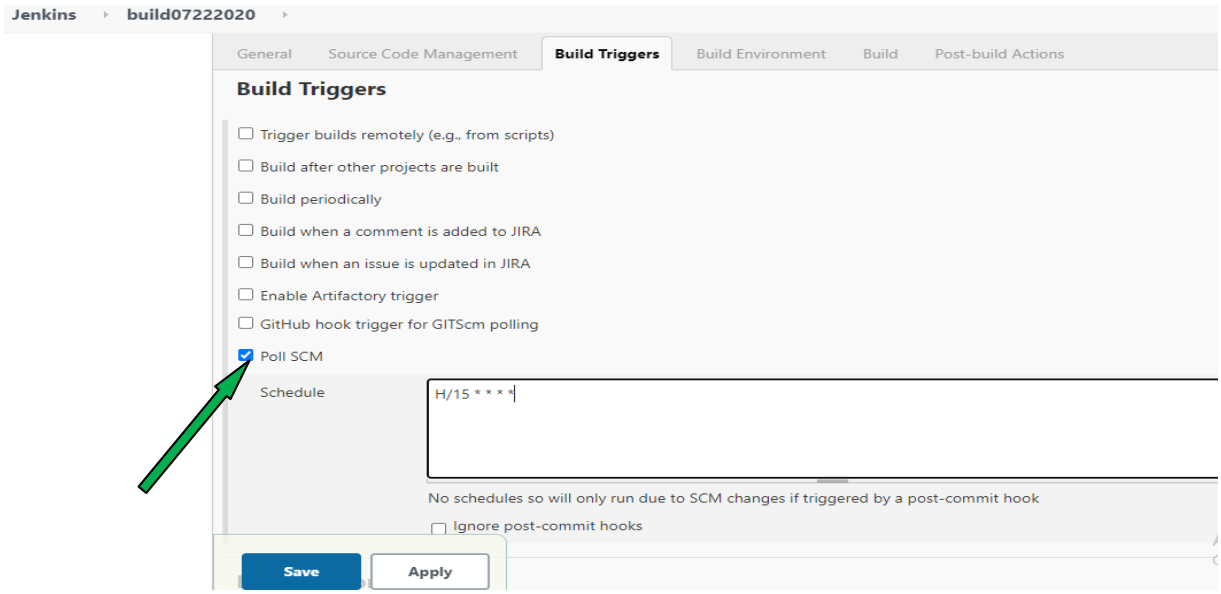
5) In the general Tab, we then select the option *'Restrict where this project can be Run'* that will allow us to select the Node on which we want the Build Job to run. In below image, master node, i.e. Jenkins server has been selected. This will make the build to run on the Jenkins master server. The default location where the job execution will happen (Job Workspace) is */var/lib/Jenkins/workspace/<buildname>/ .*



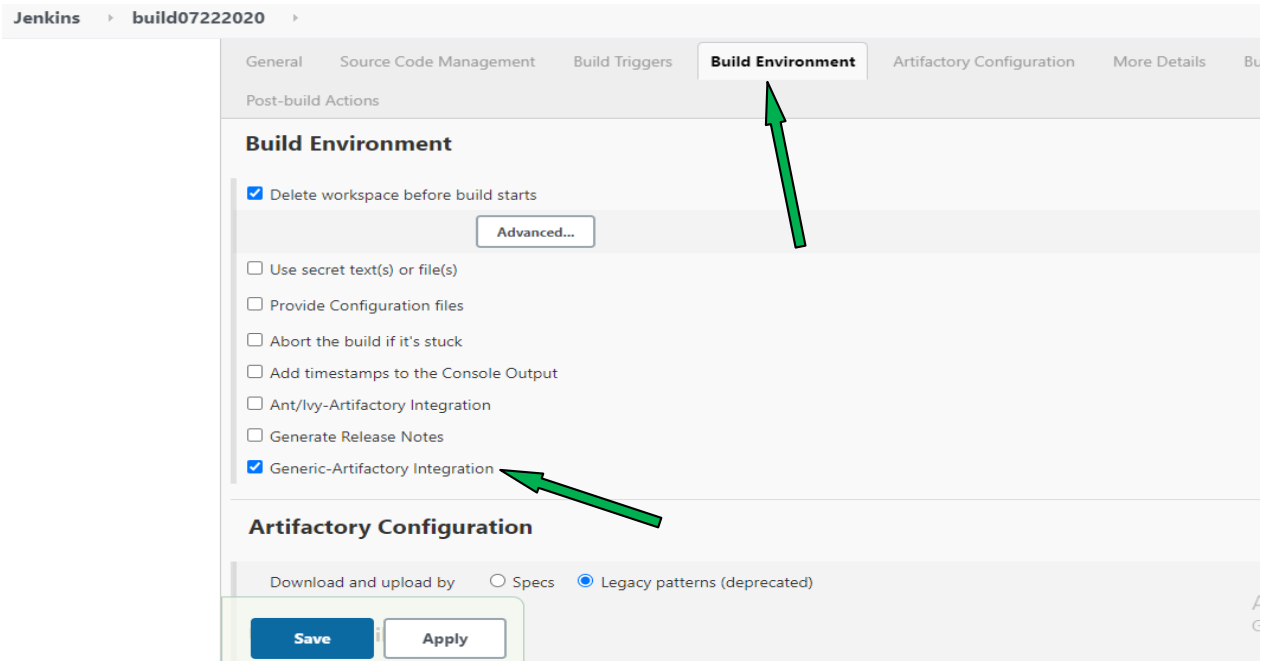
6) The next option in the menu tabs is *Source Code Management*. As we are using GitHub as our remote Source code management repository, we select *'git'* and provide github remote repository url.



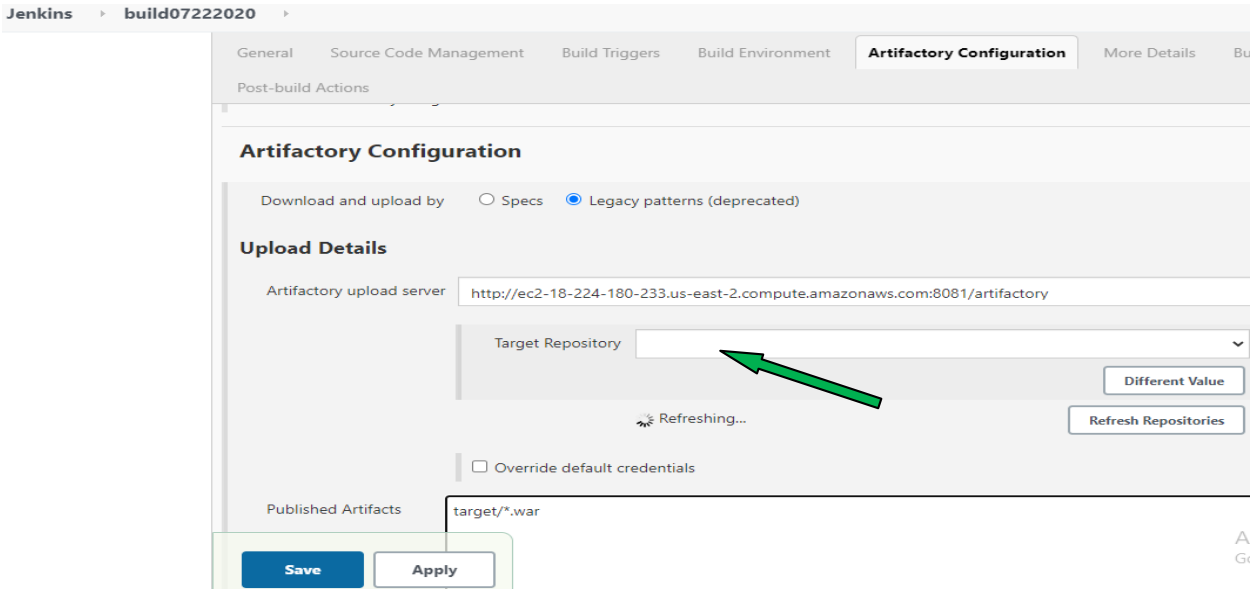
7) In the below image, the next option is to select how we want our Jenkins job to start, the *trigger*. If we want the job to start after a new version has been updated on the remote SCM repository, we have to select the '*Poll SCM*' option and provide the polling schedule in ***CRON*** syntax, *'H/5 * * * *'*.



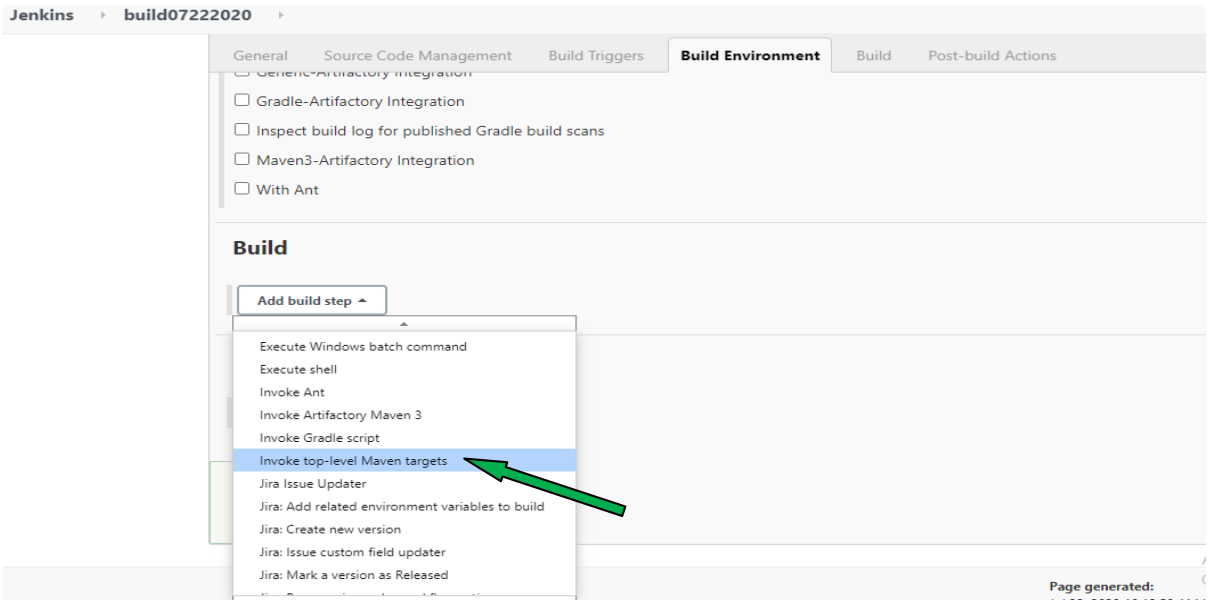
8) The next option in *Build environment* which allows to manage the build workspace. *'Delete workspace before build starts'* will help to get rid of any files that are created from earlier build.



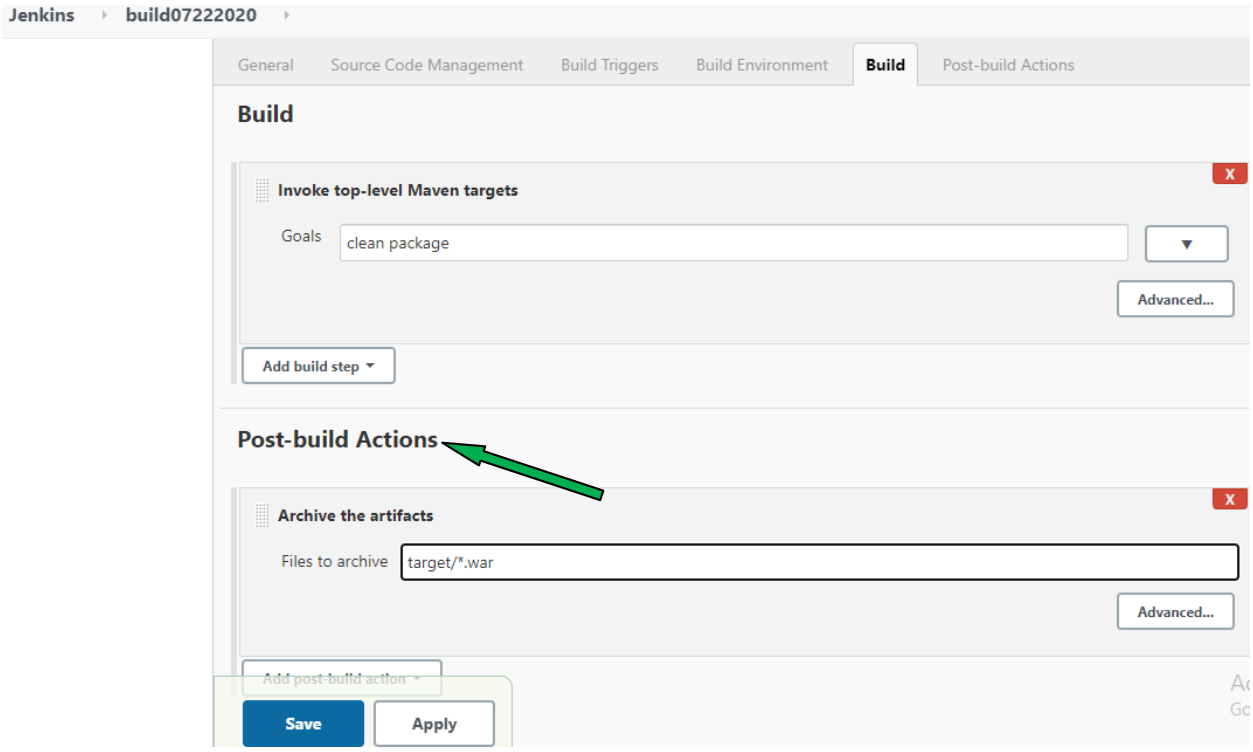
9) In this option select the *'Generic-Artifactory integration'* selection and provide details about repository name to which we want the binaries or the package to be deployed for sharing with other teams, like QA or Deployment. Here we also have to mentioned the file name we want to push to the remote repository on Artifactory.



10) In the build tab, we now select *'invoke Top Level Maven Targets'* and mention the Maven goal, e.g. '*clean', 'test', 'package'* etc.



11) In the *Post Build Action* tab, we can select option that will complement the selection in *Build* tab. So we select option to archive artifacts, binaries that gets created as an result of maven build task.



To run the *Build manually*, we can click on the Build Now option.

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