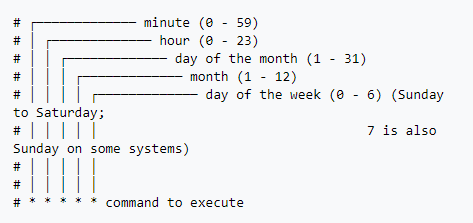
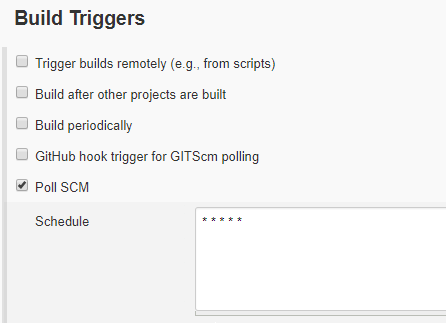
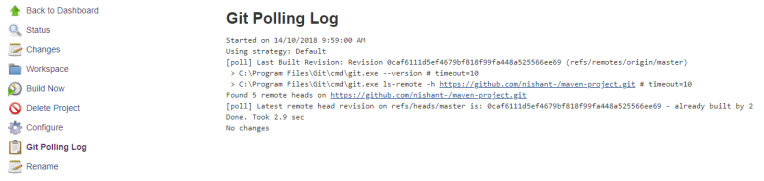
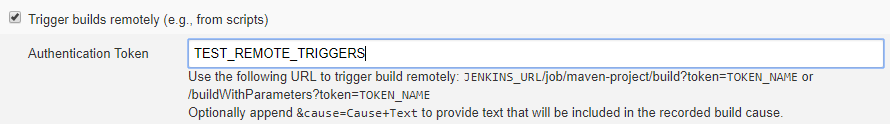
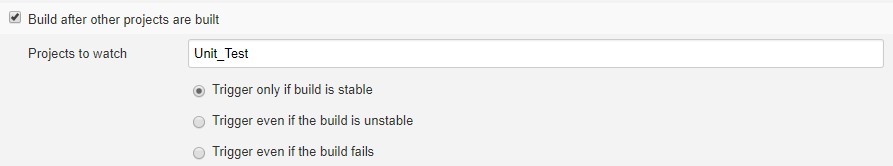
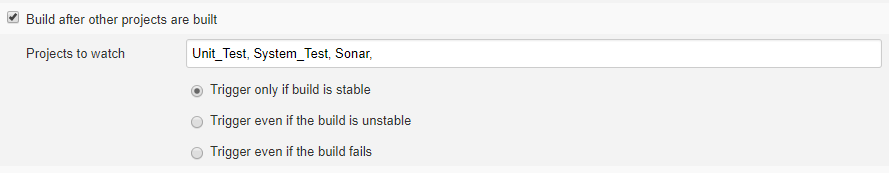
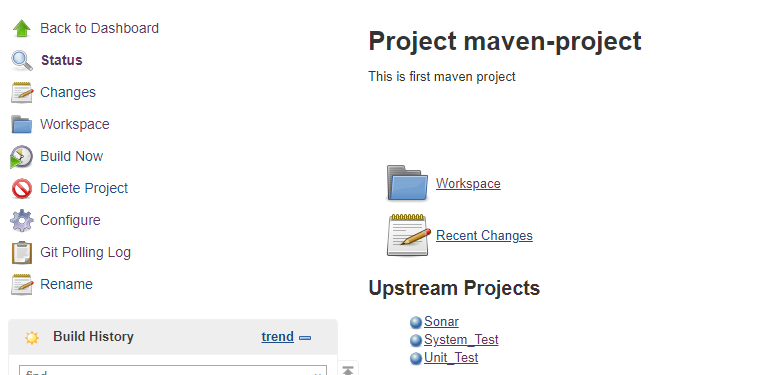
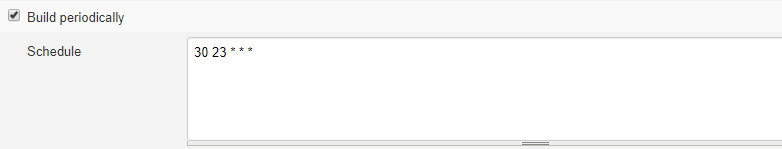
**Jenkins Build Triggers Summary**

***Poll SCM*** - periodically polls the SCM to check whether changes were made (i.e. new commits) and builds the project if new commits where pushed since the last build.  
a) Go to the project  
b) Click Configure  
c) Scroll down to the Build Triggers section and select “Poll SCM”. In the text box enter the schedule. The schedule follows cron syntax.  
Basic cron syntax  
In cron, each line consists of 5 fields separated by TAB or white space.  
See the picture below (source - Wikipedia)  
  
  
examples  
i) 0 0 \* \* \* -> every day at mid-night  
ii) 0 2-4 \* \* \* -> 2 am, 3 am, 4 am every day.  
iii) \* \* \* \* -> every minute  
  
The following configuration will poll the repository every minute for changes.  
  
The polling activity can be seen from the “Git Polling” log  
  
  
The build will be triggered only if there is some change in the repository. As soon as a change is pushed to the repository a new build will be triggered the very next minute (as per the schedule)

***Trigger Builds Remotely*** – Supply a token name and use this url to trigger the build remotely.  
  
In the above, authentication token is TEST\_REMOTE\_TRIGGER  
The ULR format for triggering the build remotely is  
<JENKINS\_URL>/job/<Jenkins-project-name>/build?token=TOKEN\_NAME or /buildWithParameters?token=TOKEN\_NAME  
  
example url with authentication token  
<http://localhost:8280/jenkins/job/maven-project/build?token=TEST_REMOTE_TRIGGERS>  
The above URL when entered in the browser will trigger a build.

***Build after other projects are built*** – This option lets us setup a build whenever another build has finished. This is an easy way to setup a build pipeline.  
  
e.g Setup an initial build job to run unit and integration tests followed by another build to perform code quality checks.  
Simply type the name of preceding build in this field.  
If the build job can be triggered by several other Jenkins job, write their name separated by comma.  
In the below screenshot the build can be triggered by any of these Unit\_Test, System\_Test or Sonar builds.  
  
The “Projects to watch” become the upstream project.  
In the below screenshot below, you can see the Upstream Projects for the “maven-project” are Sonar, System\_Test, Unit\_Test  
  
Building any of these 3 projects - Sonar, System\_Test, Unit\_Test will trigger “maven-project” to be built.

***Build Periodically*** - This option allows us to trigger a build job at regular intervals. It is not “Continuous Integration”. It is a scheduled build. Cron syntax is used to define the schedule.  
In the below screenshot the schedule is to do the build everyday @11.30 PM  


***GitHub hook trigger for GITScm polling*** – Instead of polling SCM, using this option whenever a commit is made to the github repository, a web-hook will be triggered which will notify Jenkins to kick off a build right away.  
Git hooks exist as simple text files in.git/hooks directory.  
Further details on configuring hooks can be found on this [link](https://wiki.jenkins.io/display/JENKINS/GitHub+Plugin#GitHubPlugin-AutomaticMode(Jenkinsmanageshooksforjobsbyitself)).