

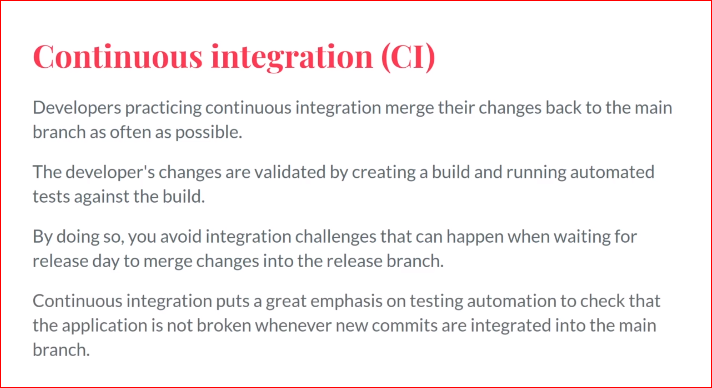
what is CI/CD...??

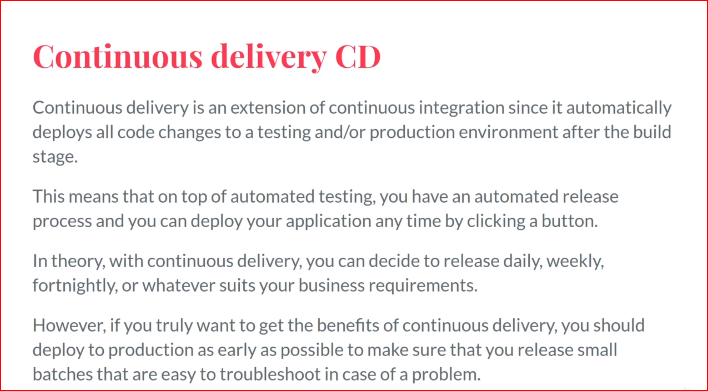
it is stands for

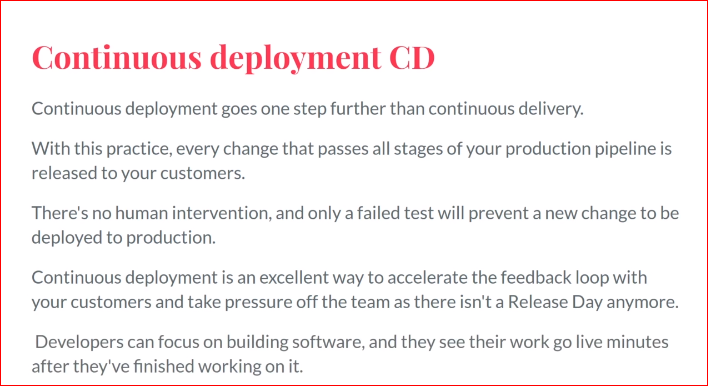
continuous integration and continuous delivery and continuous deployment embody a culture

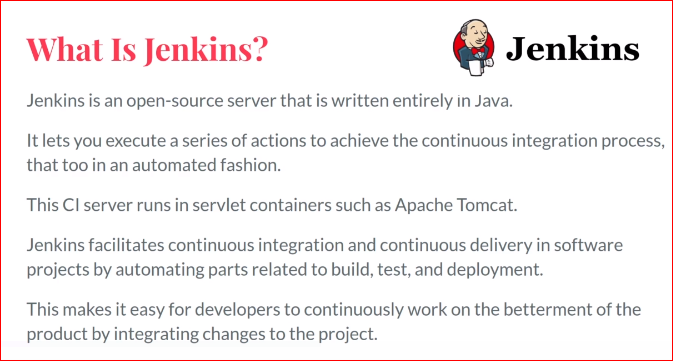
so in Continuous Deployment everything in continous deployment is automated | everything is automated

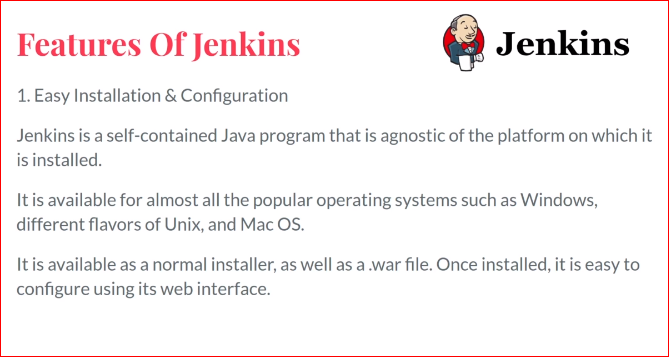
but in Continous delivery there are one or two steps are manual | it is not fully automated | half automated | required manual steps to follow



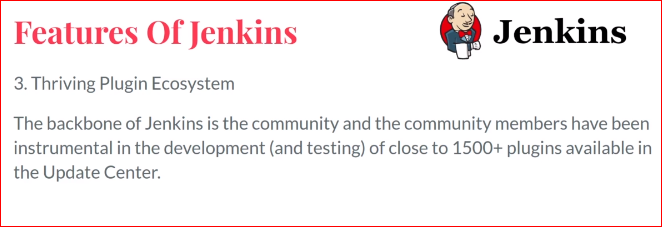


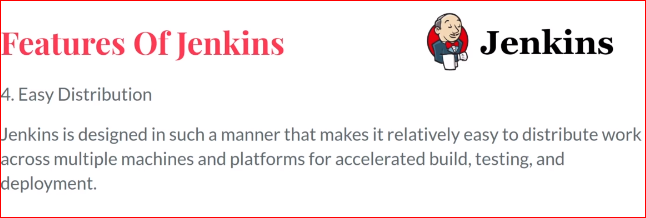


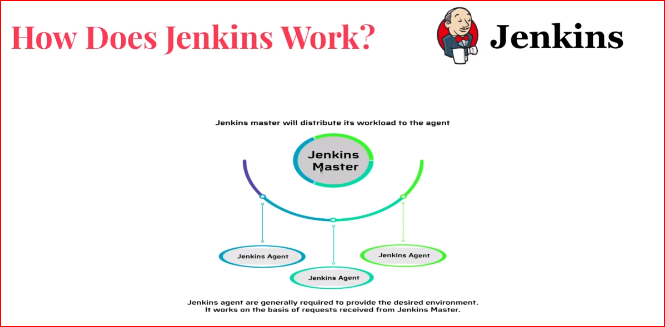






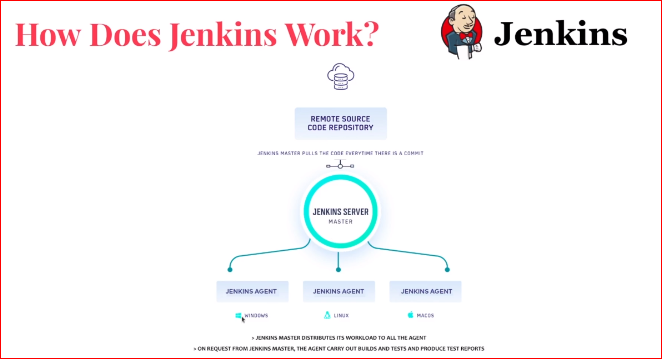






We have Jenkins master and Jenkins agents or nodes

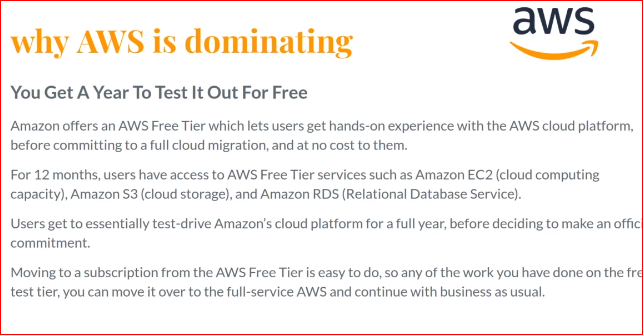
Jenkins master distributes works to Jenkins agents



Here We have Remote source code Repository like :- github, gitLabs ,bigbucket, where we commit the code also read the image and understand this flow

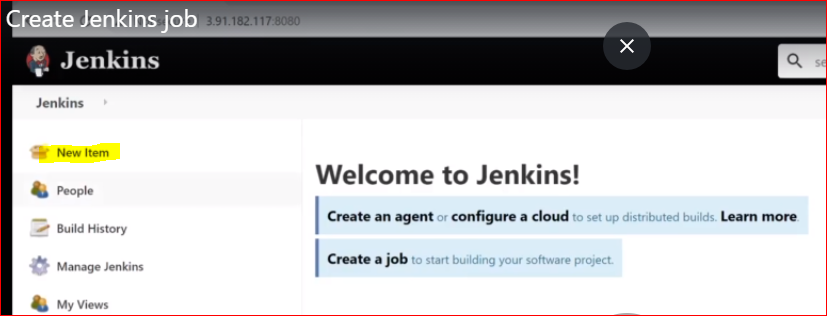




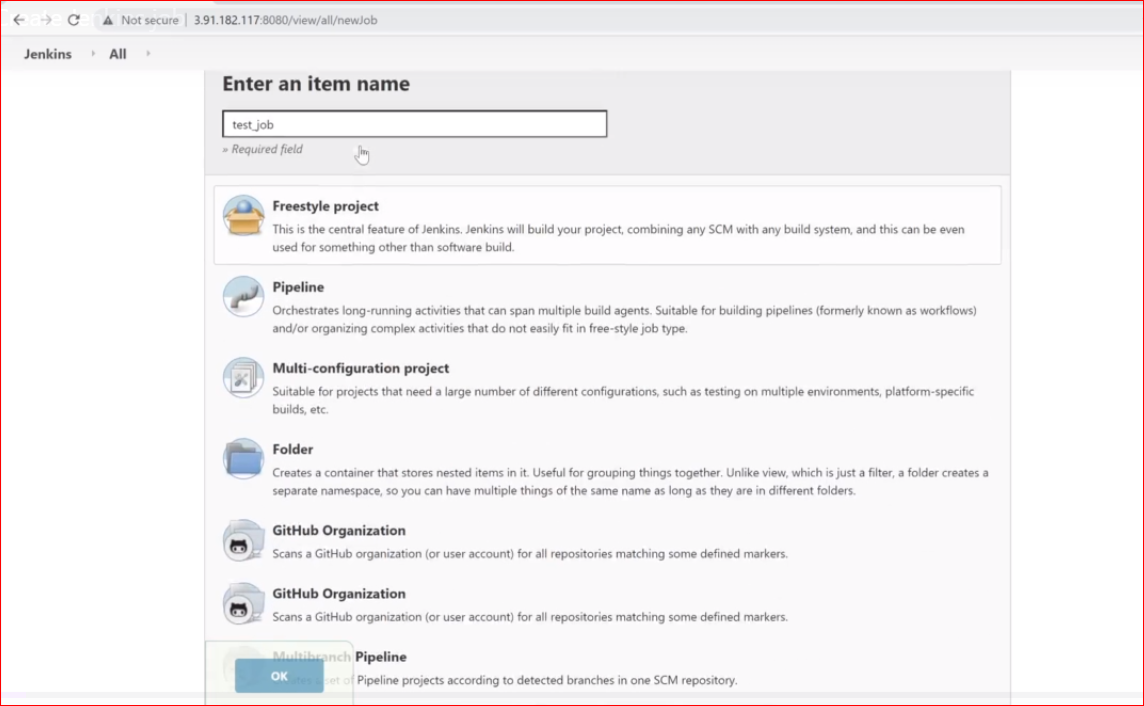




Creating Jenkins Jobs >> clickon new teams



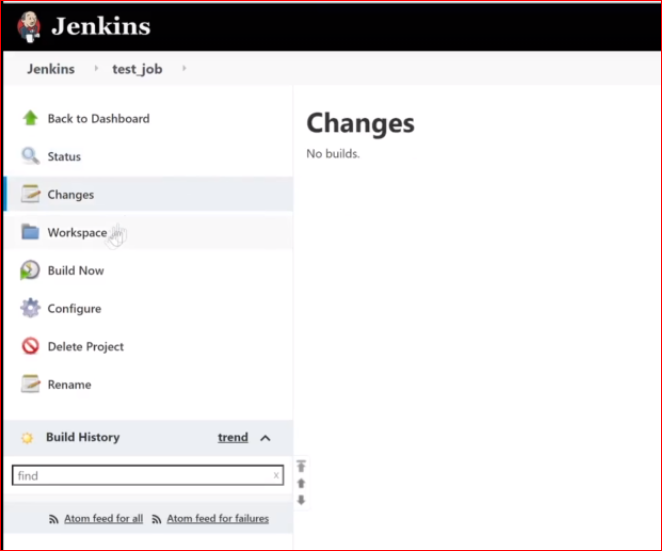
There are different types of Jobs we can create each one have own use case



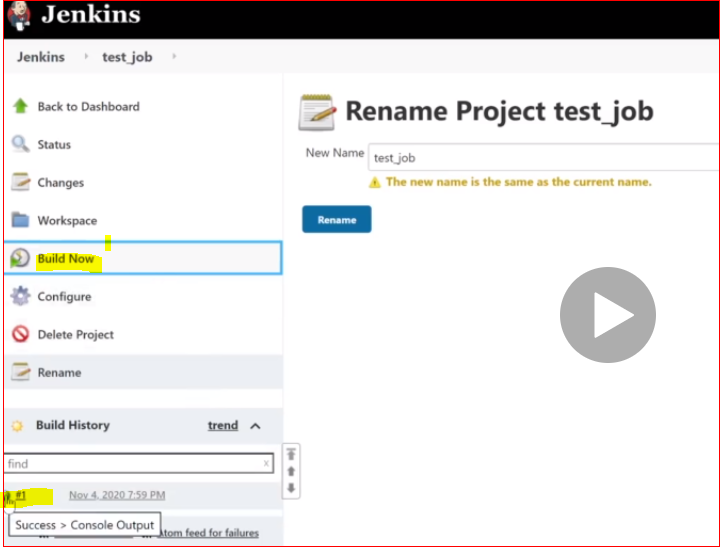
Mostly we use is freestyle project and pipeline

Freestyle project > we can customize our profile and create pipeline profile according to the configuration CHOOSE FREESTYPE PROJECT >> PRESS OK

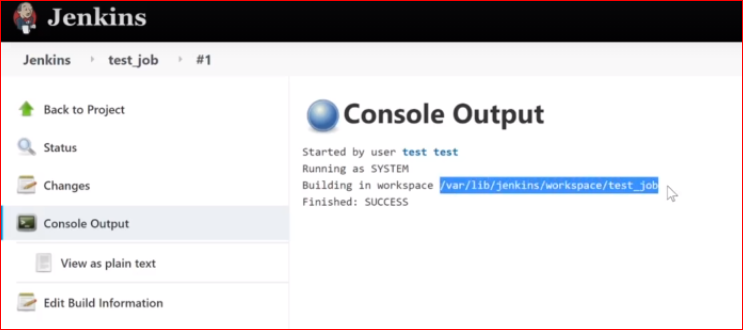
EACH JOB HAS LIST OF tabs



Workspace we creating on server on Jenkins node Like MASTER NODE [ JENKINS SERVER] OR REMOTE NODES LIKE :- copy file everything will be history will shows in Workspace



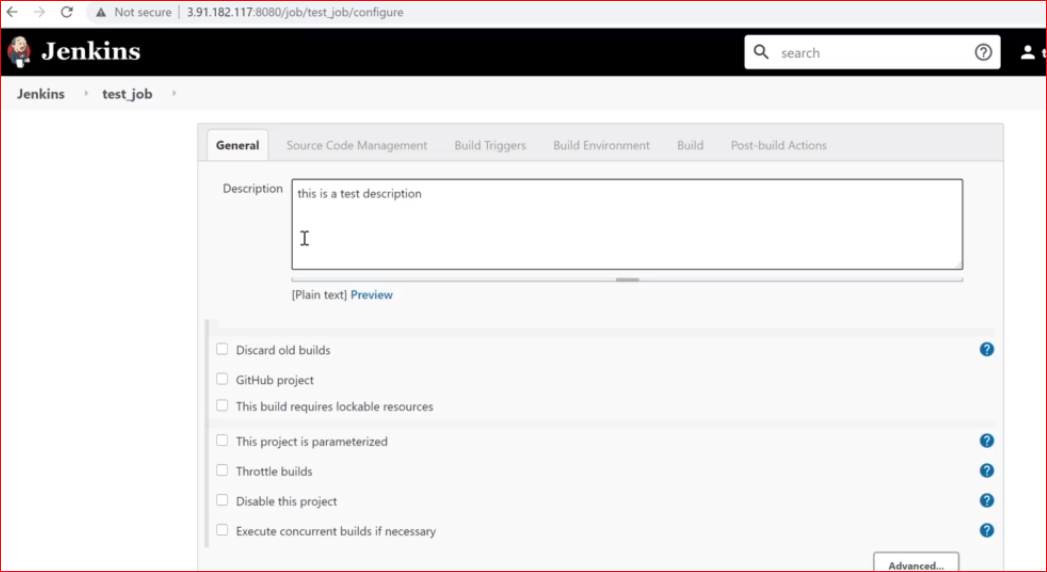
USING BUILD NOW will

Will create output file on Jenkins server

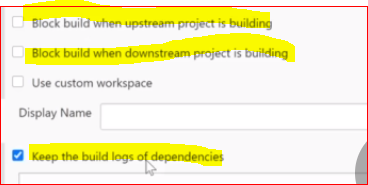
========================================== GENERAL===================================

IN CONFIGURE TAB BELOW ARE THE OPTIONS

IN GENERAL TAB WE CAN DESCRIBE WHAT WHAT JOB IS DOING



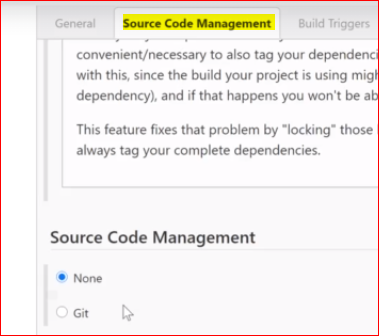
BELOW ARE THE 3 MOSTLY WE USE in general tab



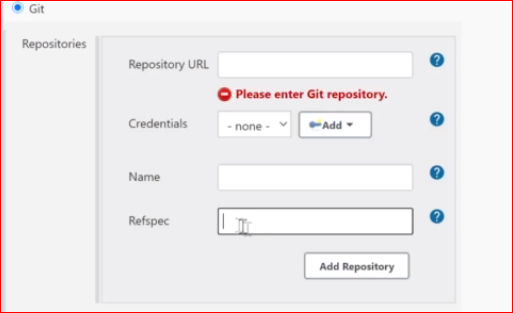


============================== SOURCE CODE MANAGEMENT==============================

CONFIGURE TAB >> SOURCE CODE MANAGEMENT >> MOSTLY USE IMPORTANCE



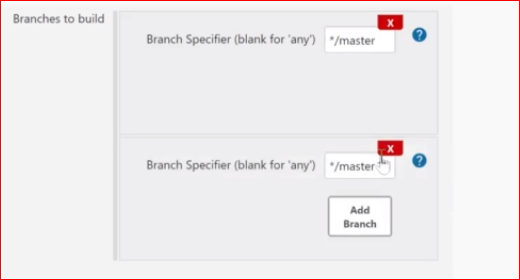
HERE we can use URL for project repo | also provide credentials >>



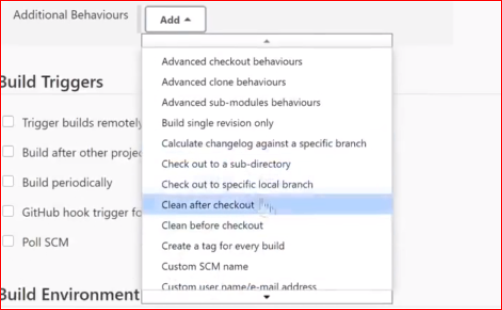
We can create multiple repositories by clicking on ADD REPOSITORY

NAME | REFSPEC >> are use for sending bulk request

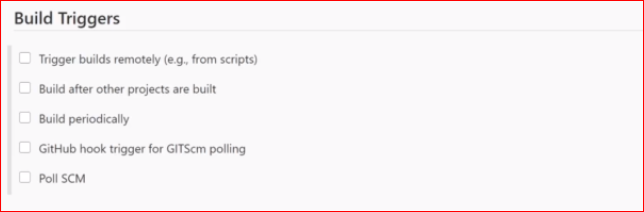
We can crate multiple branches and like master | development | prod | uat | pilot



There are bunch of opetions in additional behaviours add tab menu



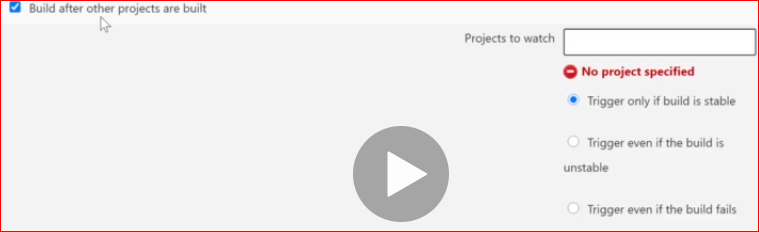
Configure >> build triggers



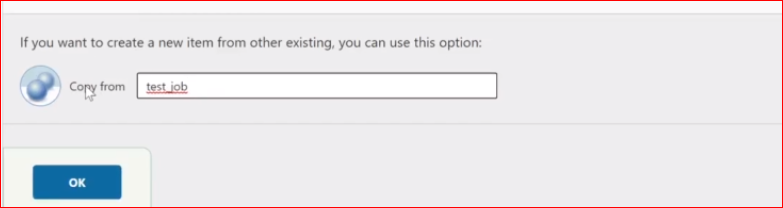
trigger current job using shell sript [ bash/ksh/powershell ] it must have access to this job



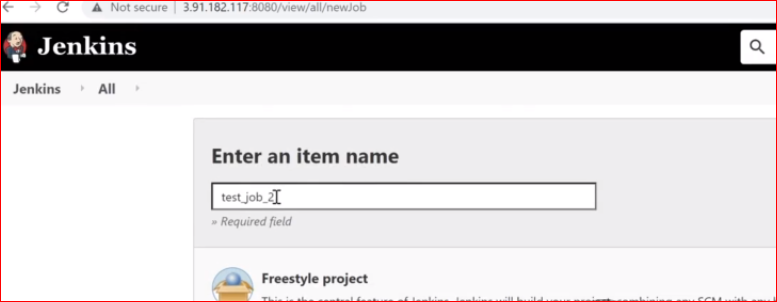
This will replace the pipeline use



We can use old jobs to create copy of new one from old jobs



We can use old test\_job and copy and use same content in new test\_job\_2 list and trigger here it will

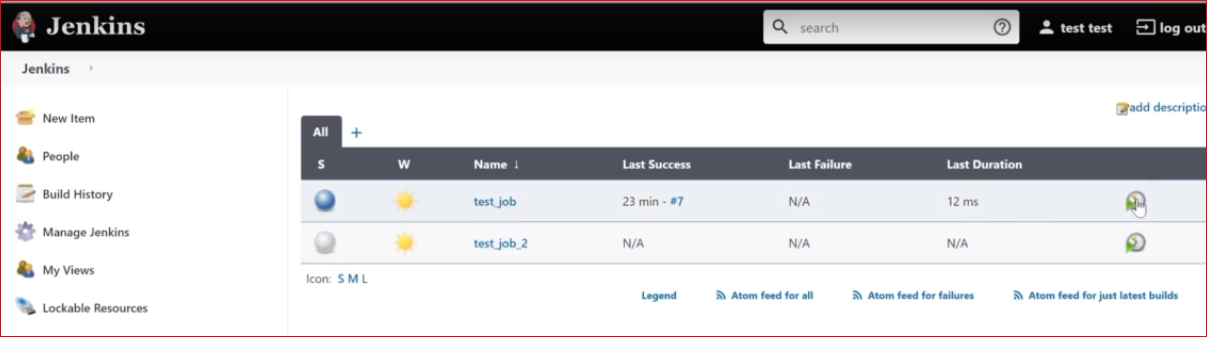


In build trggers it show all jobs in dropdown menu

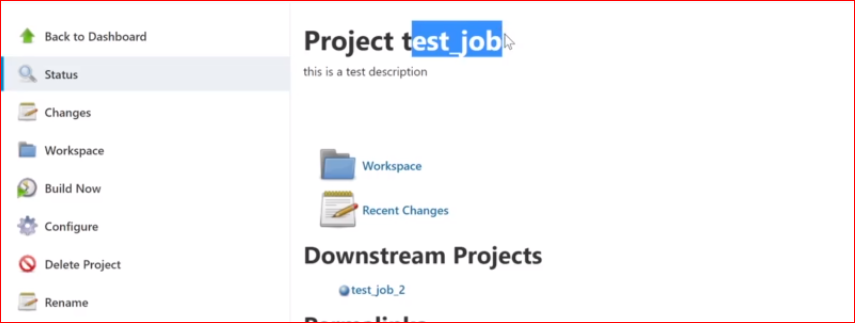


And save it

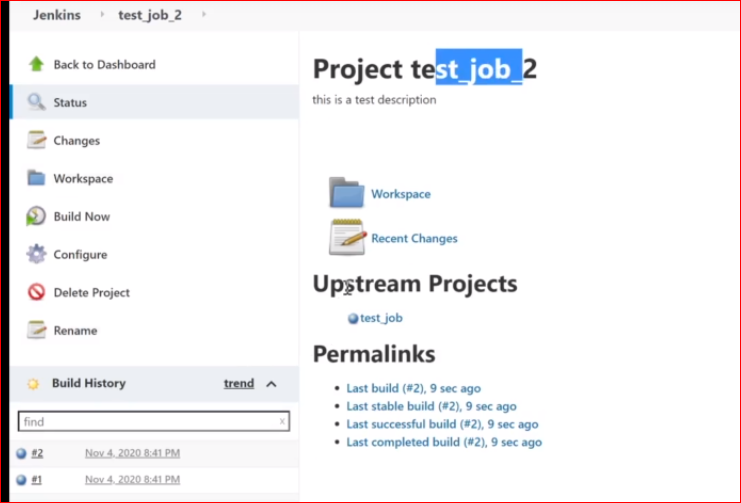
We can trigger job 1 click on circle mentioned in end of the job



Once the test\_job old job is executed successfully >> test\_job 2 new job will start executing >> so for old test\_job1 downstream project is test\_job2



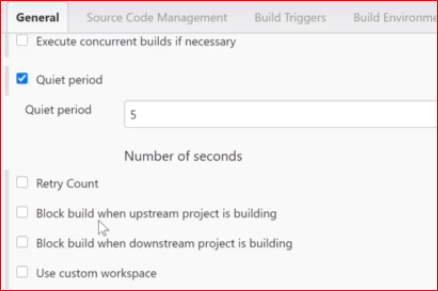
And for test\_job2 theupstrem project is test\_job >> this is something like pipeline



We can replace the pipeline jenkins file script or without writing any script or whatever

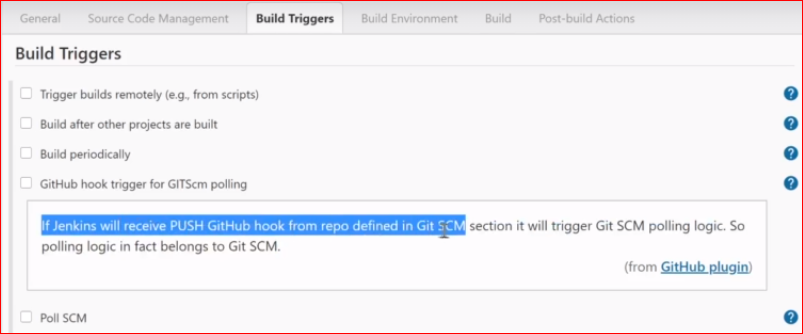
For here test\_job2 the upstream is test\_job >> we can block it by simply checking the box and

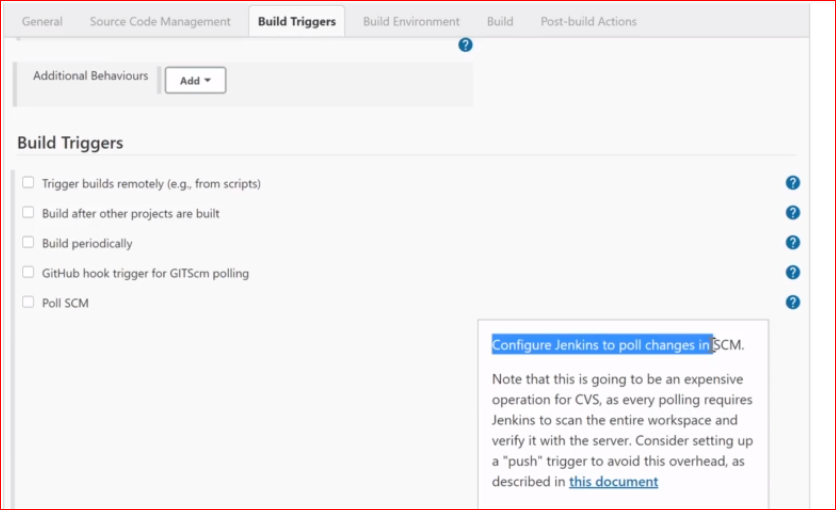
If test\_job 2 is running and after test\_job will not run because we have blocked the upstream. Same for dawnstream we can do..

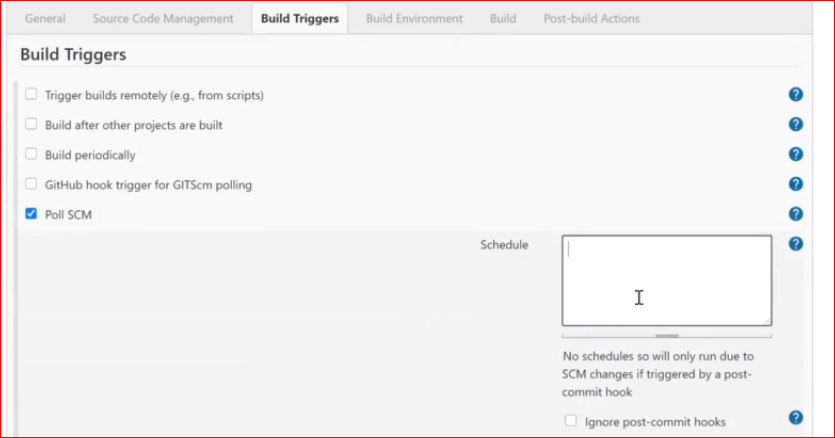


We can put crontab or cron scheduler just copy and paste or write it here click on ? for any help

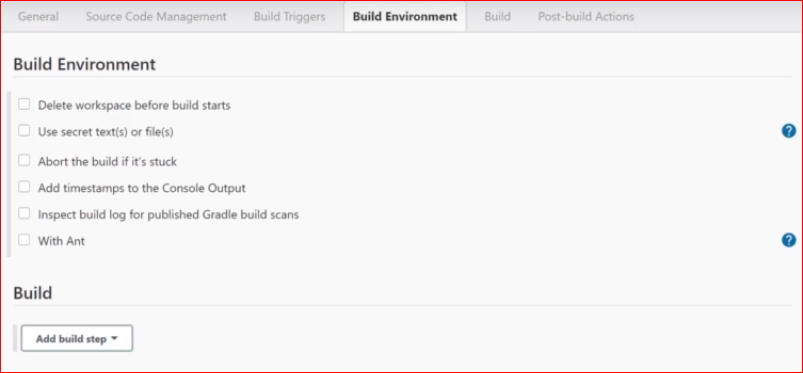


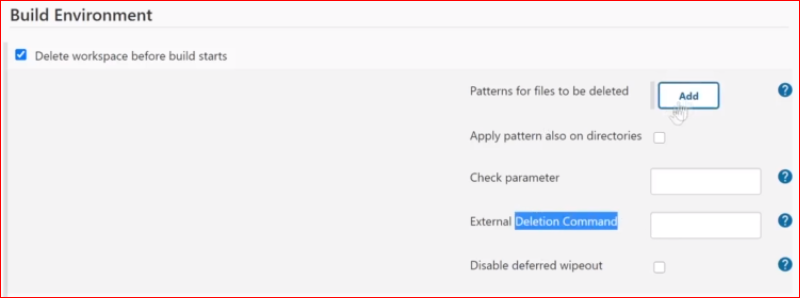


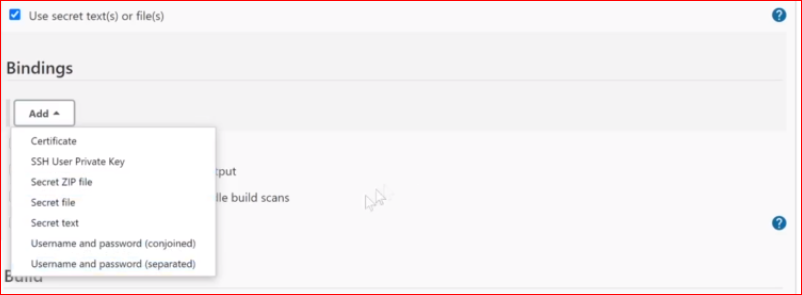


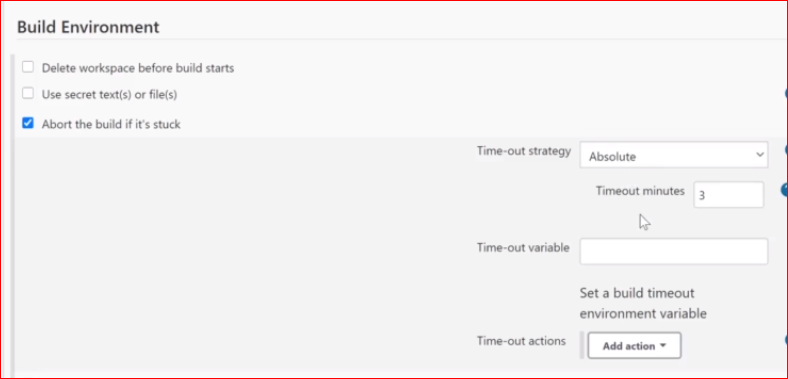


============================= BUILD ENVIRONMANT =====================================



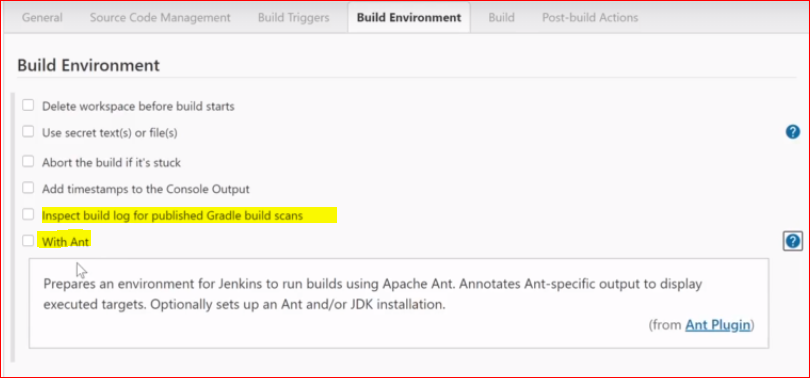






ADD TIME STAMP TO CONSOLE output if there is any error it shows time as well always check this

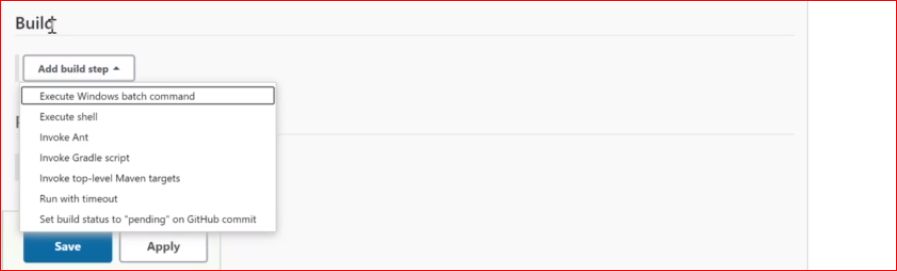




========================BUILD========================================================

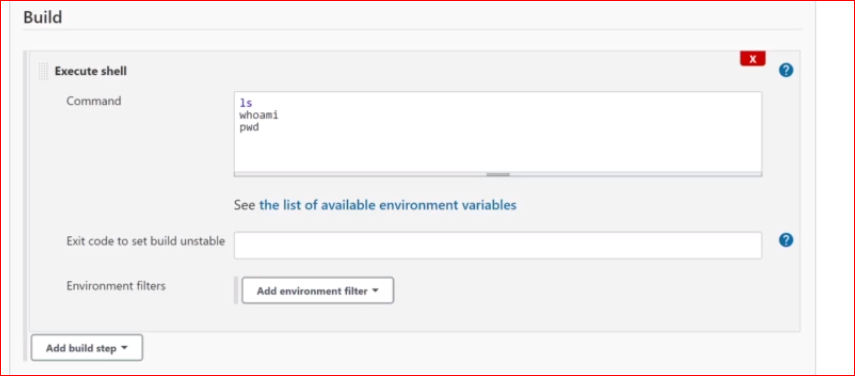
I WANT this JOB test\_job2 is to build actual build

This job is to deploy dependencies to build the packages that I want for specific application running and so on

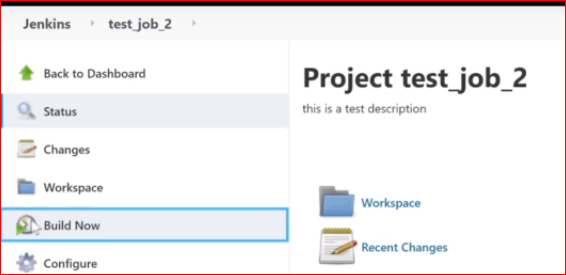


Start with selection above execute command in unix shell runn below command add in below box

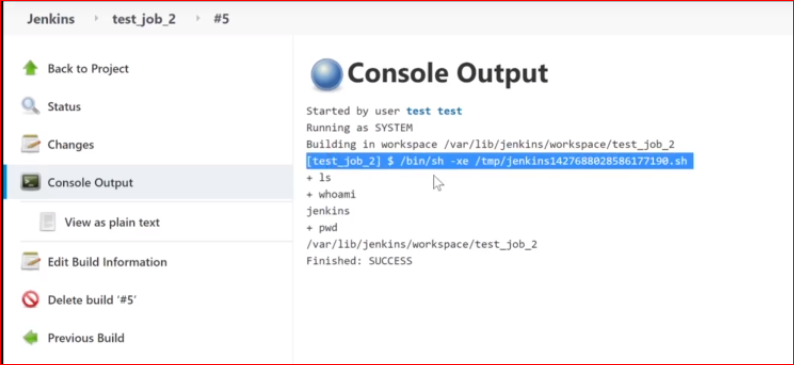
Save it and see the output



Click on build now



See the output in console



In build section we can add bunch of command example

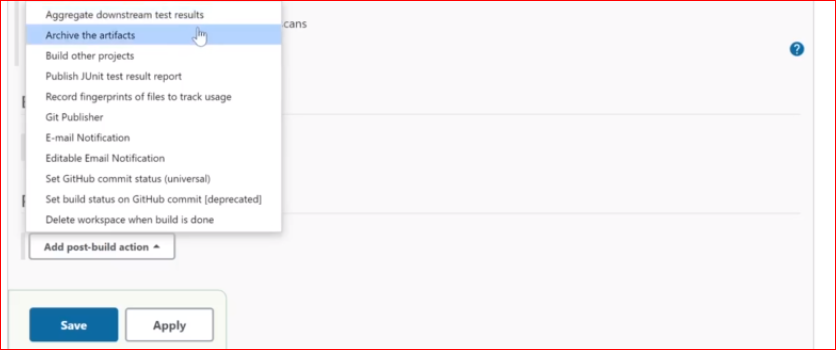
we want to run deploy | run apache | start nginx | run Django unicore | start service and so on

execute command and specific scripts | or to execute docker command to run docker container or run whatever we run in terminal we can add that part command or script in BUILD >> execute shell dropdown

there are lot of thing we have to do R and D for each menu about how to and script to put in this job

==========================JOB POST BUILD ACTIONS ======================================

AFTER the build is complete we can have post build actions



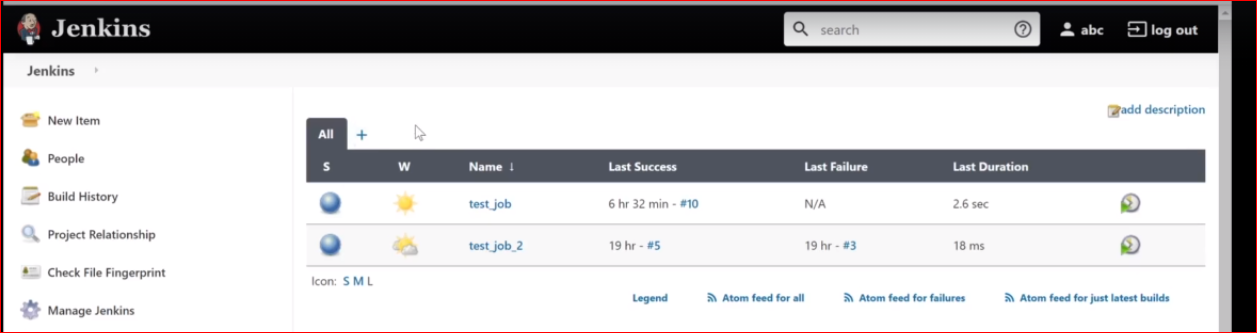
Artifact will generated when completed Jenkins build or whatever

Build other projects if you want other project to be build

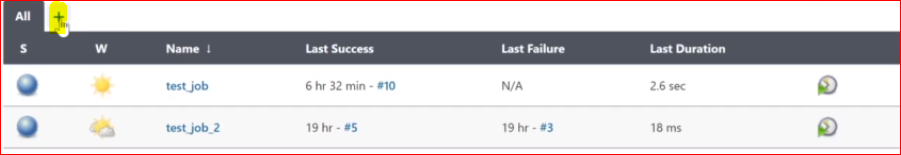
We can email notification AND MUCH MORE………….

================================= JOB VIEW ===========================================

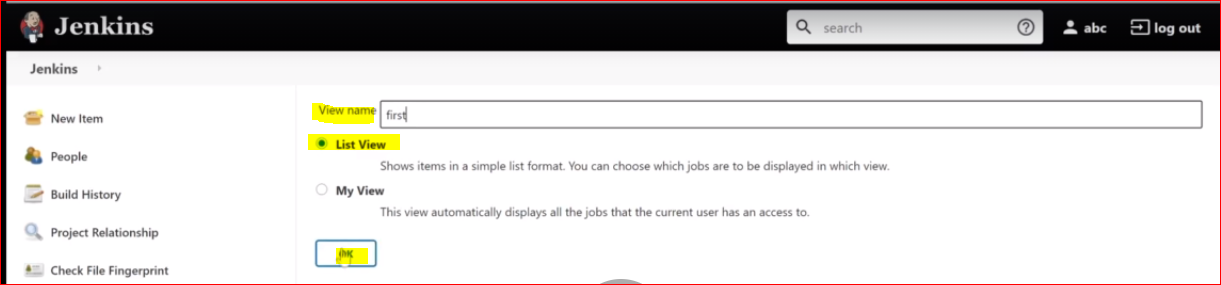
WHAT IF WE HAVE MULTIPLE jobs and I don’t want all the jobs to show here in ALL TAB



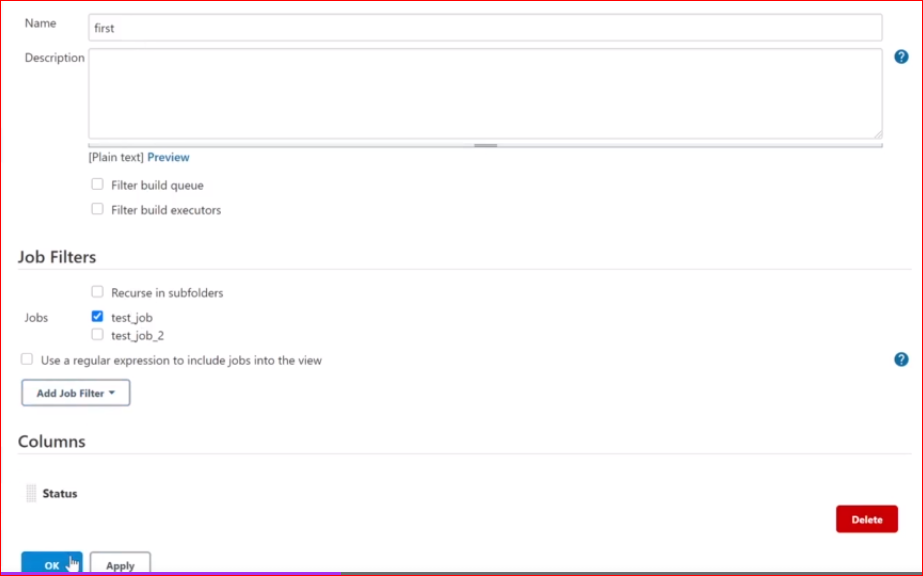
We can create view by below plus button



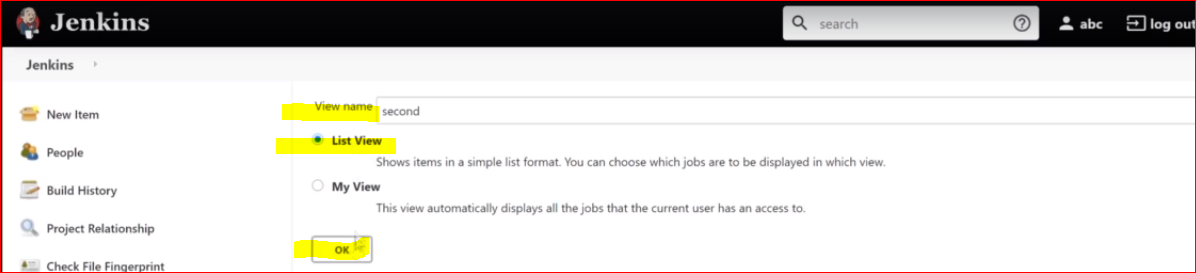
Creating first view using list view



Select specific jobs and press ok >> It will display specific selectd jobs in first list view and press ok



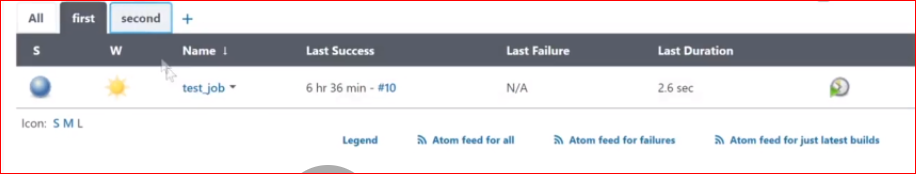
Creating second view and add 2nd job and press ok



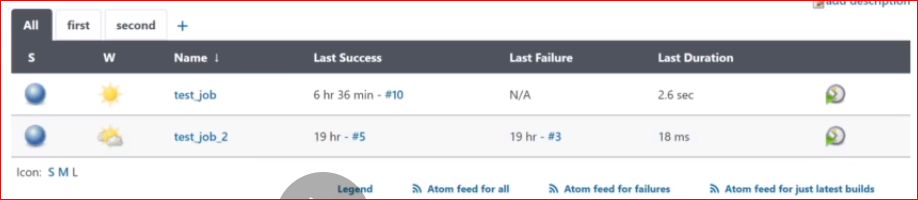
In second Tab test\_job2 will display



In first tab test\_job will display



In All TAB all jobs are displayed



============Jenkins Managements System Information ============================