Jenkins pipeline with roll-back functionality using nexus and Tomcat

Pre-requisites

- 1. Jenkins server
- 2. Nexus repository (hosted in ec2 istance)
- 3. Tomcat server

Plugins need to install in jenkins

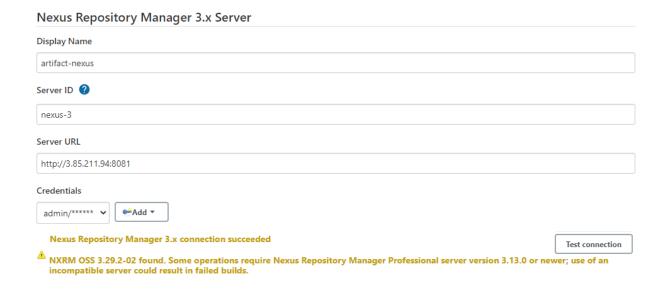
Go to manage jenkins -> available-> search for publish over ssh plugin and install without restart.

Go to manage jenkins -> available-> search for nexus platform and install without restart.

Go to manage jenkins -> available-> search for parameterized trigger plugin and install without restart.

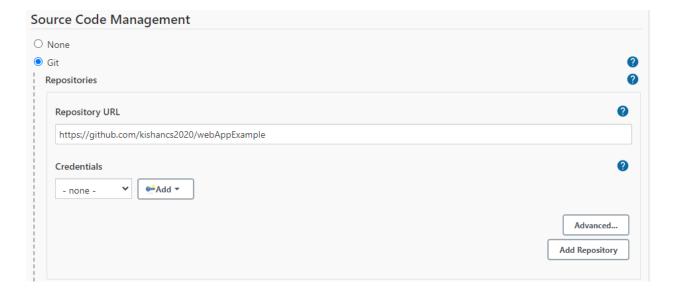
Now configure nexus and tomcat server from system configure in jenkins dashboard.



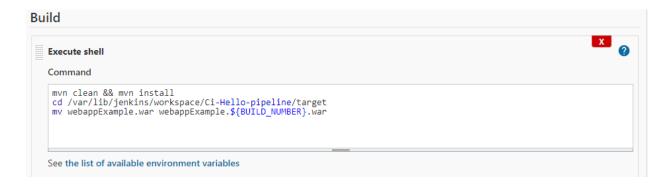


Now go to jenkins dashboard -> new item -> name of CI-pipeline -> select freestyle project -> go.

Select git as a source code and provide gir url and branch name with git credentials In my case i chose public git repo.

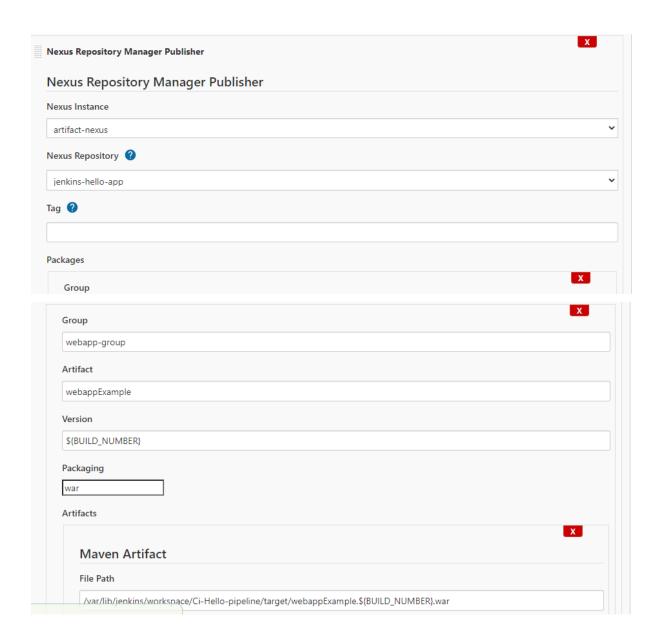


Go to Build -> select execute shell open from the available plugin and execute maven commands to build package and rename the war name as per the server configuration In my case i have give build number as a version tag for war.



Once we are good with packaging source code to war file now we need to push war file to artifact repository in my case i am using nexus as my artifacts, i already have repository so i will be pushing war file to nexus repo as shown below.

Select nexus artifacts publish manager plugin from build option and provide required parameters to push war to artifacts. As shown below



Now choose trigger parameterized build on other projects plugin to pass BUILD_NUMBER of CI pipeline to pass cd pipeline so CD pipeline with trigger only if CI pipeline is succeeded or stable that is called as a downstream job.



Under general features select this build as a parameterized and select which parameter to execute. In our case we are passing upstream job build number as a parameter.



Download war file from nexus repo using wget command.



Deploy war file to webapps folder in tomcat server and execute required commands

Fransfer Set			
Source files 🕜			
**/webappExample-\${UPS	TREAM_BUILD_NUMBER}.w	ar	
Remove prefix ?			
Remote directory ?			
/			
Exec command ?			
sudo systemctl restart tor	ncat		
		oort substitution of Jenkin	

Console output:

```
2021-06-05 17:02:51 (330 MB/s) - 'webappExample-11.war' saved [2517/2517]

SSH: Connecting from host [ip-172-31-86-58]

SSH: Connecting with configuration [tomcat-8] ...

SSH: EXEC: completed after 201 ms

SSH: Disconnecting configuration [tomcat-8] ...

SSH: Transferred 1 file(s)

Finished: SUCCESS
```

← → C ▲ Not secure | 52.205.71.129:8080/webappExample-13

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