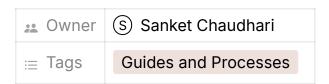
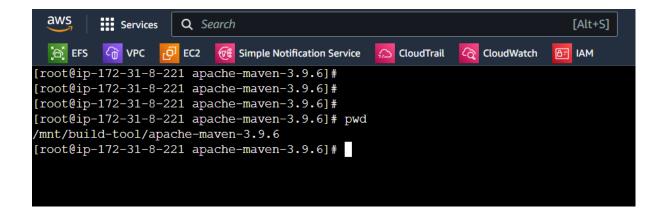


Jenkins Assignment 2



CI / CD Pipeline Practical 21 Feb 2024 : Assignment 2 :

Create Build Toold Folder to download maven in that -



Downloaded particular version of maven -

	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.9.6-bin.tar.gz	apache-maven-3.9.6-bin.tar.gz.sha512	apache-maven-3.9.6-bin.tar.gz.asc
Binary zip archive	apache-maven-3.9.6-bin.zip	apache-maven-3.9.6-bin.zip.sha512	apache-maven-3.9.6-bin.zip.asc
Source tar.gz archive	apache-maven-3.9.6-src.tar.gz	apache-maven-3.9.6-src.tar.gz.sha512	apache-maven-3.9.6-src.tar.gz.asc
Source zip archive	apache-maven-3.9.6-src.zip	apache-maven-3.9.6-src.zip.sha512	apache-maven-3.9.6-src.zip.asc

- 3.9.6 Release Notes and Release Reference Documentation
- latest source code from source repository
- Distributed under the Apache License, version 2.0
- other:

How to create environment variable?

- go to jenkins home and edit profile file which is /root/.bash_profile
- Edit This File Vi .bash_profile
- Add the following Command And maven home path

```
export MAVEN_HOME=/mnt/build-tools/apache-maven-3.9.6
export PATH=$MAVEN_HOME/bin:$PATH
```

- Now Login & Logout Your ec2 instance.
- Now You can run mavn from any folder

```
aws
           Services Q Search
                                                                                         [Alt+S]
  EFS 6 VPC 6 EC2 6 Simple Notification Service
                                                        CloudTrail
                                                                      CloudWatch
[ec2-user@ip-172-31-8-221 ~]$
[ec2-user@ip-172-31-8-221 ~]$
[ec2-user@ip-172-31-8-221 ~]$ sudo su -
Last login: Tue Feb 27 07:13:19 UTC 2024 on pts/0 [root@ip-172-31-8-221 ~] # mvn
[INFO] Scanning for projects...
[INFO] --
INFO]
[INFO] -
[INFO] Total time: 0.251 s
[INFO] Finished at: 2024-02-27T07:20:47Z
[INFO]
      R] No goals have been specified for this build. You must specify a valid lifecycle phase or a goal in t
gin-artifact-id>[:<plugin-version>]:<goal>. Available lifecycle phases are: pre-clean, clean, post-clean, va
erate-resources, process-resources, compile, process-classes, generate-test-sources, process-test-sources, g
le, process-test-classes, test, prepare-package, package, pre-integration-test, integration-test, post-integ
 site, site-deploy. -> [Help 1]
         To see the full stack trace of the errors, re-run Maven with the -e switch.
        Re-run Maven using the -x switch to enable full debug logging.
         For more information about the errors and possible solutions, please read the following articles:
          \begin{tabular}{ll} \textbf{[Help 1]} & \textbf{http://cwiki.apache.org/confluence/display/MAVEN/NoGoalSpecifiedException \\ \end{tabular} 
 root@ip-172-31-8-221 ~]# clear
```

· Now Restart Jenkins for Safer side

```
|root@ip-172-31-8-221 ~] # cd /mnt/server/
|root@ip-172-31-8-221 apache-tomcat-9.0.85/
|root@ip-172-31-8-221 apache-tomcat-9.0.85] # cd bin
|root@ip-172-31-8-221 bin] # ./shutdown.sh
|sing CATALINA HOME: /mnt/server/apache-tomcat-9.0.85|
|sing CATALINA HOME: /mnt/server/apache-tomcat-9.0.85|
|sing CATALINA HOME: /mnt/server/apache-tomcat-9.0.85|
|sing CATALINA HOME: /mnt/server/apache-tomcat-9.0.85|
|sing CATALINA HOME: /mnt/server/apache-tomcat-9.0.85/bin/bootstrap.jar:/mnt/server/apache-tomcat-9.0.85/bin/tomcat-juli.jar
|sing CATALINA OPTS: /mnt/server/apache-tomcat-9.0.85/bin/bootstrap.jar:/mnt/server/apache-tomcat-9.0.85/bin/tomcat-juli.jar
|sing CATALINA OPTS: /mnt/server/apache-tomcat-9.0.85/bin/bootstrap.jar.mii/sun.rmi.transport=ALL-UNNAMED --add-open-add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens-java.base/java.io=ALL-UNNAMED --add-opens-java.b
```

Restart Means-./shutdown.sh & ./starup.sh

How to set maven tool after manual installation in jenkins:

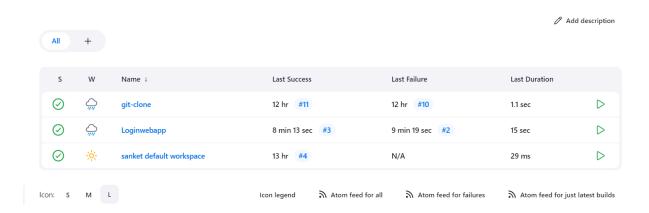
 you can add by going Dashboard >maven jenkins > tools -scroll down > Maven intstallation.



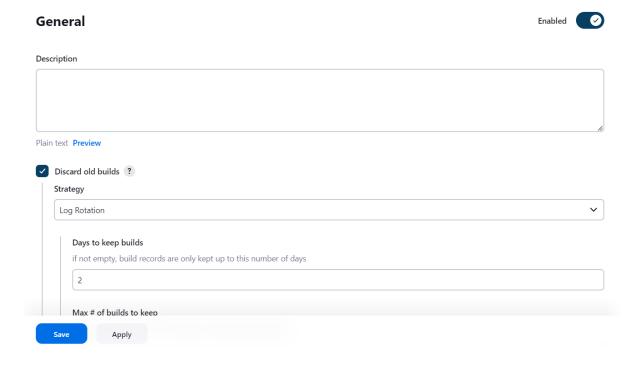
 You can add multiple version of maven install in jenkins by Clicking Add Maven.

Now Everything is done now you can create job for CI/CD Pipline :

• Create job (Item name) - LoginWebApp



- Select Project Type Freestyle Project
- General → discard old builds

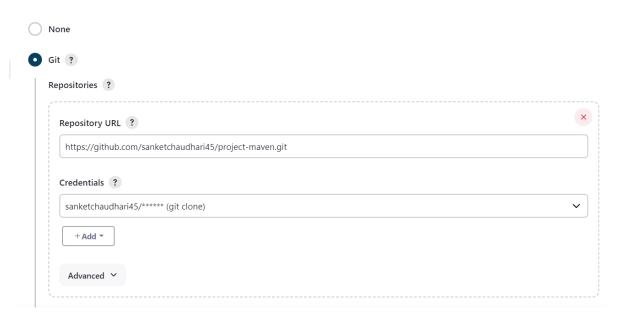


• Advanced → Use custom workspace

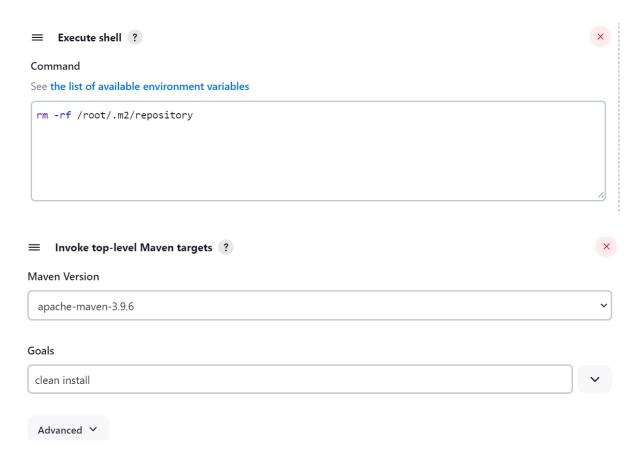


• Select soucre code management → Git → Repositary URL + Credentials

Source Code Management

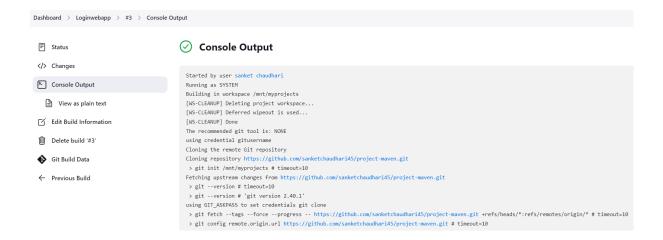


 Build Steps: Execute Shell → Invoke top-level Maven targets(In goal write down the maven command) → Execute shell

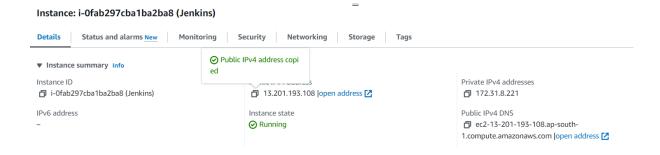




• After Build Now : Console output



• Now Copy Public Ip and Check Your Website Page:



· Its Perfectly working this automation successfully done



- Always delete local repositary dependencies
- In this way in one job you can deploy Website
- In CI-CD daily build and dwployment going on daily basis so this one time automation is use.
- For multiple server we have to use or create slave .