

Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

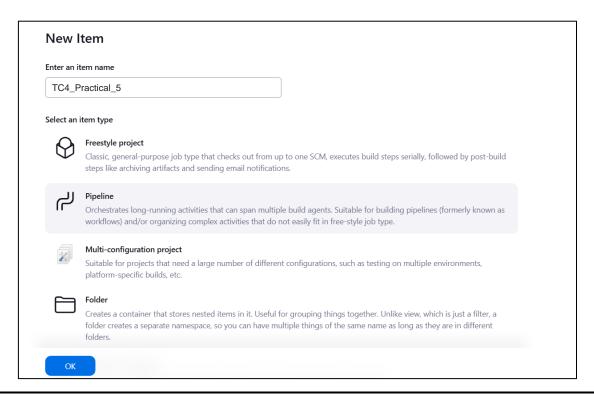
5. Dockerizing Jenkins Pipeline.

Steps:

- Pull an image from Registry
 - Ensure that docker is installed in your pc
 - Pull the maven image (run following command)
 - \$docker pull maven

```
C:\Users\Archit>docker pull maven
Using default tag: latest
latest: Pulling from library/maven
32b824d45c61: Pull complete
fe18bb7e114f: Pull complete
581ebfe08d3f: Pull complete
7c7bdd063feb: Pull complete
28f1e2918031: Pull complete
323428e294a3: Pull complete
a6251410a6c3: Pull complete
08b6c5e45271: Pull complete
4f4fb700ef54: Pull complete
7eec3912badd: Pull complete
Digest: sha256:d98e229685654e7c38a2f121bdf3766505c7fe6841284e45d46ed0411cd480a1
Status: Downloaded newer image for maven:latest
docker.io/library/maven:latest
What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview maven
```

- > Open Jenkins Dashboard
- Click on "Dashboard"
- > Click on "New Item"
- ➤ Give Project Name i.e. "TC4 Practical 5"
- > Select "Pipeline" job type
- > Click on "OK"



92100103363 [29]



Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

➤ Give few words description "Practical - 5"

General	Enabled	
Description		
"Practical-5 : Archit Shukla"		
		h
Plain text Preview		
Discard old builds ?		
Do not allow concurrent builds		
Do not allow the pipeline to resume if the controller restarts		
GitHub project		
Pipeline speed/durability override ?		
Preserve stashes from completed builds ?		

- ➤ Go to "Pipeline"
 - There are two option (i) Pipeline script (ii) Pipeline script from SCM
 - Select option one (i) Pipeline script
 - Write the following script:

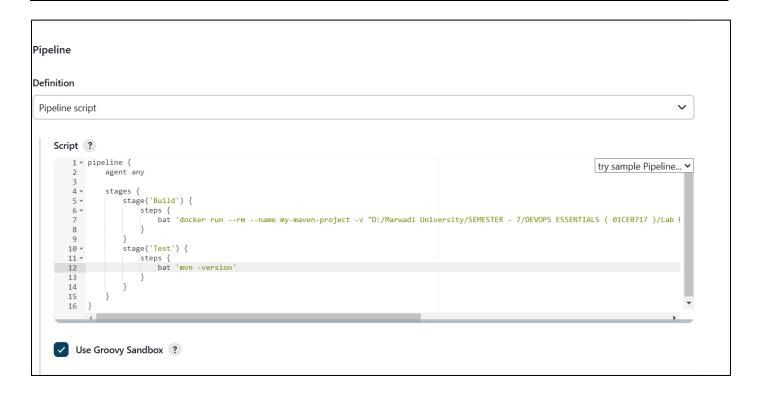
```
pipeline {
     agent any
     stages {
           stage('Build') {
                steps {
                     bat 'docker run --rm --name my-maven-project
           "D:/Marwadi University/SEMESTER
                                            - 7/DEVOPS ESSENTIALS
           01CE0717)/LabPractical/Practicals/Prac 2/firstmavenapp:/usr/sr
           c/mymaven" -w /usr/src/mymaven maven mvn clean install'
                   }
           stage('Test') {
                steps {
                     bat 'mvn -version'
                   }
               }
     }
```

• Please change the path with your maven project folder.

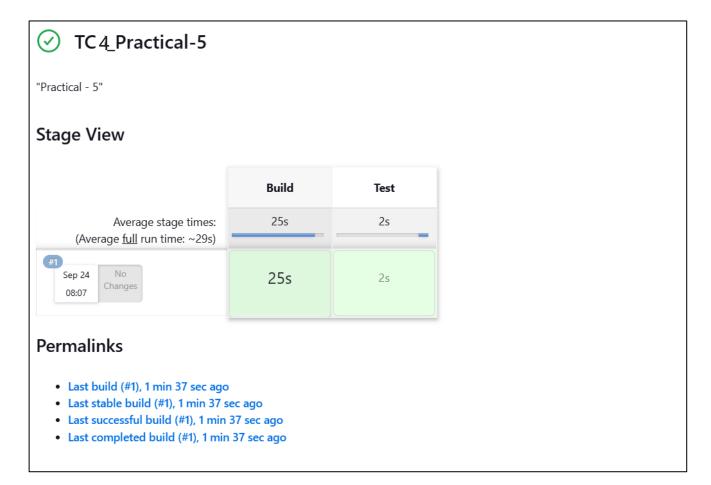
92100103363 |30



Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual



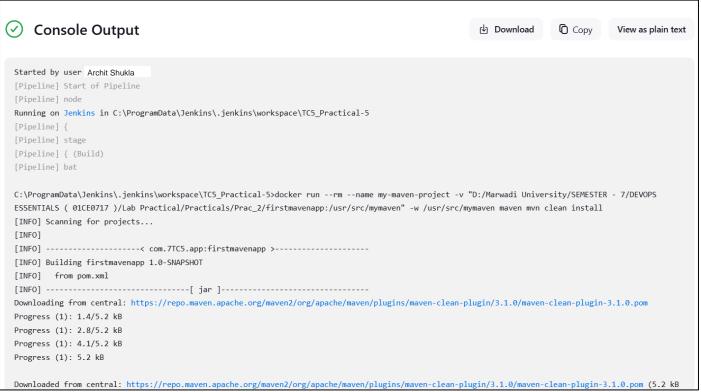
- Click on "Apply" and then click on "Save"
- > Click on "Build Now"



92100103363 |31



Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual



```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (239 kB at 327 kB/s)
[INFO] Installing /usr/src/mymaven/target/firstmavenapp-1.0-SNAPSHOT.jar to /root/.m2/repository/com/7TC5/app/firstmavenapp/1.0-
SNAPSHOT/firstmavenapp-1.0-SNAPSHOT.jar
[INFO] \ Installing \ /usr/src/mymaven/pom.xml \ to \ /root/.m2/repository/com/7TC5/app/firstmavenapp/1.0-SNAPSHOT/firstmavenapp-1.0-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] Total time: 22.525 s
[INFO] Finished at: 2024-09-24T02:37:40Z
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] bat
C:\ProgramData\Jenkins\.jenkins\workspace\TC5_Practical-5>mvn -version
Apache Maven 3.9.8 (36645f6c9b5079805ea5009217e36f2cffd34256)
Maven home: D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\apache-maven-3.9.8
Java version: 21.0.1, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-21
Default locale: en_IN, platform encoding: UTF-8
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

92100103363 |32