

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

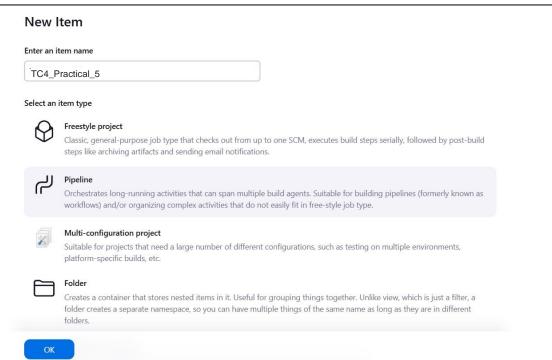
5. Dockerizing Jenkins Pipeline.

O 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\Administrator>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
5d747676dacd: Pull complete
5f80e8f4bfde: Pull complete
e626418b2bad: Pull complete
4f4fb700ef54: Pull complete
2a669a7f0633: Pull complete
Digest: sha256:9e63e6c1ab3535c4afe34fd86ec5716719b43c3ba5bdccb03b9afad579110bde
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
C:\Users\Administrator>
```

- O Open Jenkins Dashboard
- O Click on "Dashboard"
- O Click on "New Item"
- O Give Project Name i.e. "TC4_Practical_5"
- O Select "Pipeline" job type
- O Click on "OK"



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○ Give few words description "Practical - 5"

General	Enabled	
Description		
"Practical - 5"		
		4
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 ?		

- O 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:

• Please change the path with your maven project folder.

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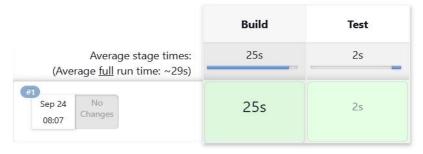


- O Click on "Apply" and then click on "Save"
- O Click on "Build Now"

✓ TC4_Practical-5

"Practical - 5"

Stage View



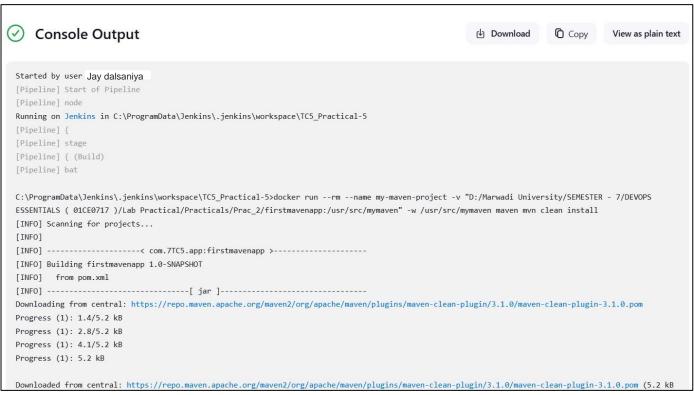
Permalinks

- Last build (#1), 1 min 37 sec ago
- Last stable build (#1), 1 min 37 sec ago
- Last successful build (#1), 1 min 37 sec ago
- · Last completed build (#1), 1 min 37 sec ago

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```
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] -----
[INFO] Total time: 22.525 s
[INFO] Finished at: 2024-09-24T02:37:40Z
[INFO] -----
[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
```

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