ASSIGNMENT 5

Setting Up and Running a Jenkins Pipeline with Git and Maven

Step 1: Clone the Repository

1. Open Command Prompt and navigate to a desired directory.
2. Run the command:

   git clone https://github.com/RahulGit077/DemoRepos.git
3. Navigate into the cloned directory:

   cd DemoRepos

Step 2: Access Jenkins Inside Docker

1. Run the following command to enter the Jenkins container:

   docker exec -it jenkins-blueocean /bin/bash
2. Navigate to the cloned repository inside the container:

   cd DemoRepos

Step 3: Install Maven

1. Inside the Jenkins container, install Maven by running:

   sudo apt-get install -y maven

   This will install Maven and set up dependencies.
2. Verify Maven installation:

   mvn -version

Step 4: Run the Jenkins Pipeline

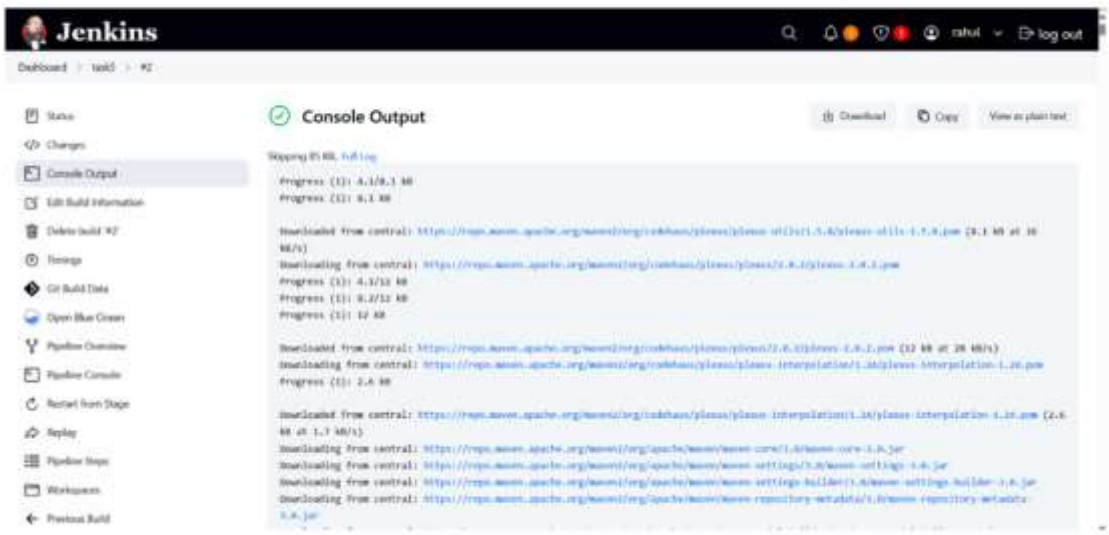
1. Open Jenkins in your browser.
2. Click on New Item.
3. Enter the item name (e.g., task-5).
4. Select Pipeline and click OK.
5. Open the newly created pipeline (task-5).
6. Click on Configure.

7. Under the Pipeline section, choose Pipeline script from SCM.
8. Select Git as the SCM.
9. Paste your Git repository URL (e.g., https://github.com/RahulGit077/DemoRepos.git).
10. Click Save.
11. Click on Build Now to start the pipeline.

Step 5: Verify the Build Output

1. Monitor the build progress under Build History in Jenkins.
2. If the build is successful, verify the output.
3. If there are errors, check the logs in Console Output and fix any issues.

OUTPUT:




[0[1;34mINFO[0m] 0[1;32mBUILD SUCCESS0[m
[0[1;34mINFO[0m] 0[1m--0[m
[0[1;34mINFO[0m] Total time: 01:59 min
[0[1;34mINFO[0m] Finished at: 2025-03-21T09:20:17Z
[0[1;34mINFO[0m] 0[1m--0[m
0[0mB[0m
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] cleanWs
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
REST API
Jenkins 2.498