

TASK 5

Setting Up and Executing a Jenkins Pipeline with Git and Maven

Step 1: Cloning the Repository

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

```
git clone https://github.com/ranjanisengottaian/DemoRepos.git
```

3. Move into the cloned repository by running:

Step 2: Accessing Jenkins Inside Docker

1. To enter the Jenkins container, use the following command:

```
docker exec -it jenkins blueocean /bin/bash
```

2. Once inside the container, navigate to the cloned repository:

Step 3: Installing Maven

1. Install Maven within the Jenkins container by running:

```
sudo apt-get install -y maven
```

This command ensures Maven and its dependencies are installed.

2. Confirm the installation by checking the version:

```
mvn -version
```

Step 4: Configuring and Running the Jenkins Pipeline

1. Open Jenkins in a web browser.
2. Click on **New Item** to create a new pipeline.
3. Enter a name for the pipeline (e.g., task 5).
4. Choose **Pipeline** and click **OK**.
5. Open the newly created pipeline (task 5).
6. Select **Configure** to modify the settings.
7. In the **Pipeline** section, set **Pipeline script from SCM** as the source.

8. Choose **Git** as the SCM.

9. Enter your Git repository URL:

<https://github.com/ranjanisengottaian/DemoRepos.git>

10. Click **Save** to apply the changes.

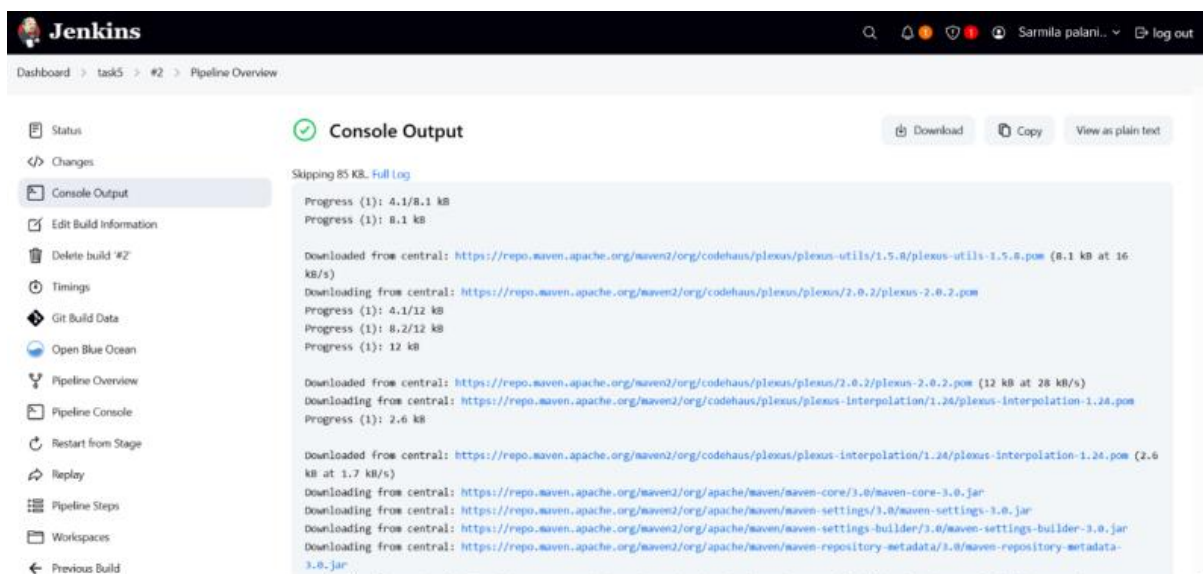
11. Start the pipeline execution by selecting **Build Now**.

Step 5: Reviewing the Build Results

1. Track the progress of the build under **Build History** in Jenkins.

2. If the build completes successfully, review the output.

3. In case of errors, analyze the logs in **Console Output** and resolve any issues accordingly.



The screenshot shows the Jenkins web interface. At the top, the Jenkins logo and navigation bar are visible, including a search icon, notification icons, and the user name 'Sarmila palani...' with a 'log out' link. Below the navigation bar, the breadcrumb trail reads 'Dashboard > task5 > #2 > Pipeline Overview'. On the left sidebar, the 'Console Output' option is selected and highlighted. The main content area displays the 'Console Output' for the build, starting with a green checkmark icon and the title 'Console Output'. There are three buttons at the top right of the console output: 'Download', 'Copy', and 'View as plain text'. The output text shows the build progress, including skipping 85 KB, downloading progress for 'plexus-utils-1.5.8.pom' (0.1 KB at 16 KB/s), and downloading progress for 'plexus-2.0.2.pom' (12 KB at 28 KB/s). The output also shows the download of 'plexus-interpolation-1.24.pom' (2.6 KB at 1.7 KB/s) and the download of 'maven-core-3.0.jar', 'maven-settings-3.0.jar', 'maven-settings-builder-3.0.jar', and 'maven-repository-metadata-3.0.jar'.

✓ < Build #2

▶ Rebuild

📄 Console

⚙️ Configure

Pipeline



Details

- 👤 Manually run by Sarmila palanisamy
- 🕒 Started 11 min ago
- 🕒 Queued 20 ms
- 🕒 Took 10 min

Jenkins 2.458