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:
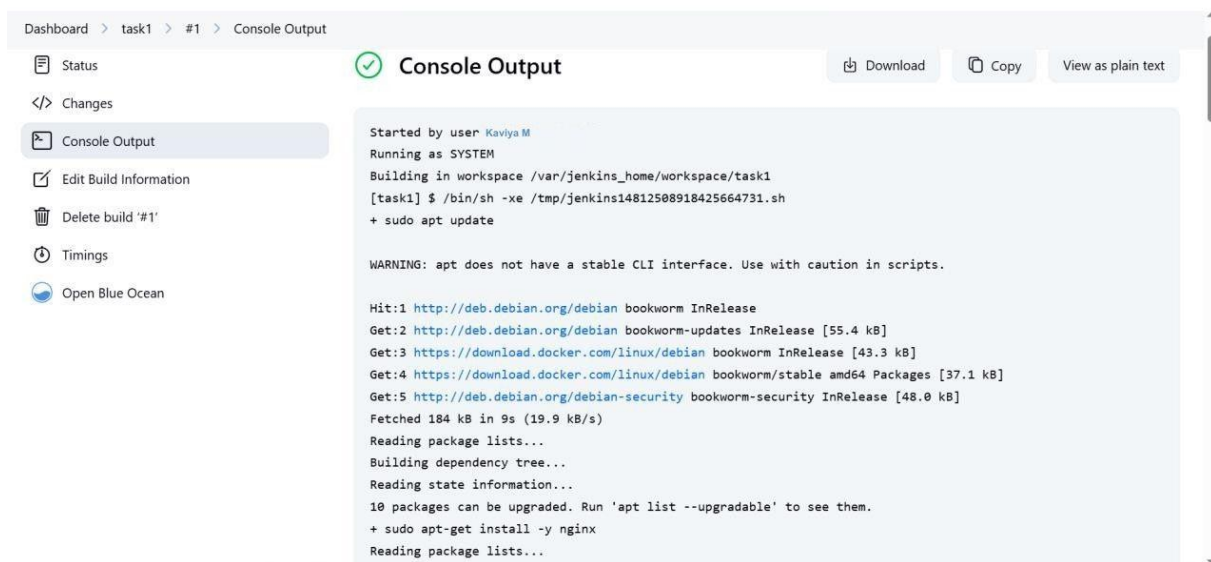
mvn -version

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.

✅ ‹ **Build #2**

▷ Rebuild   📑 Console   Configure

Pipeline   ⤡

Start   Checkout SCM   Build   Test   Deploy   Post Actions   End
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Details

👤 Manually run by KAVIYA M

🕐 Started 11 min ago

⏳ Queued 20 ms

🕙 Took 10 min

Jenkins 2.498