Ex No 8 INSTALLATION AND CONFIGURATION OF JENKINS AND CREATING A WORKSPACE

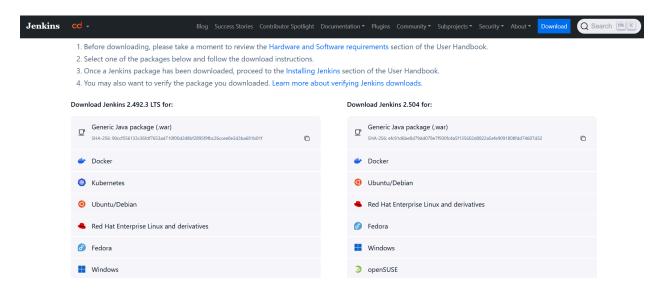
AIM:

To install and Configure Jenkins and create a workspace

PROCEDURE:

STEP 1: Download the Jenkins WAR File

To start the Jenkins installation, download the "jenkins.war" file from the official Jenkins website [jenkins.io] https://www.jenkins.io/download/



Step 2: Run Jenkins Using the WAR File – Prerequisite, Java 17 or 21

Open a terminal or command prompt and navigate to the directory where the "jenkins.war" file is located. Execute the following command to run Jenkins:

java -jar jenkins.war

This command will start Jenkins on your localhost at port 8080.

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Step 3: Access Jenkins

Once Jenkins is up and running, open your web browser and goto "localhost:portnumber". You will see the Jenkins setup screen.

If the default port (8080) is busy run Jenkins using the following command:

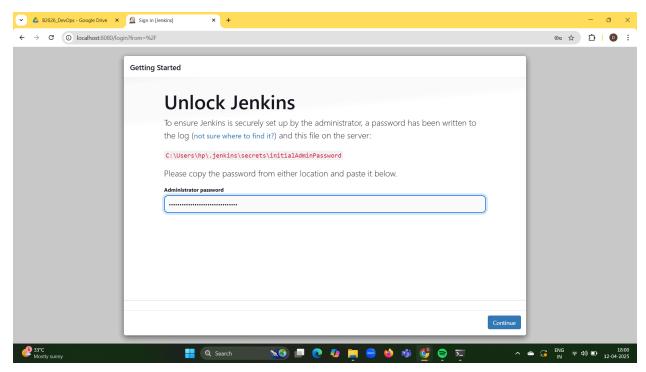
Java -jar Jenkins.war - -httpPort=9000

Step 4: Unlock Jenkins

You will be prompted to unlock Jenkins using an automatically generated password. Find the initialAdminPassword file in your Jenkins home directory:

cat ~/.jenkins/secrets/initialAdminPassword

Copy the password and paste it into the setup screen.



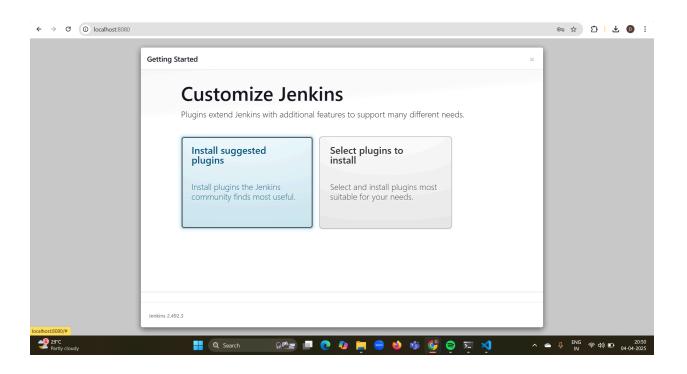
Step 5: Install Suggested Plugins

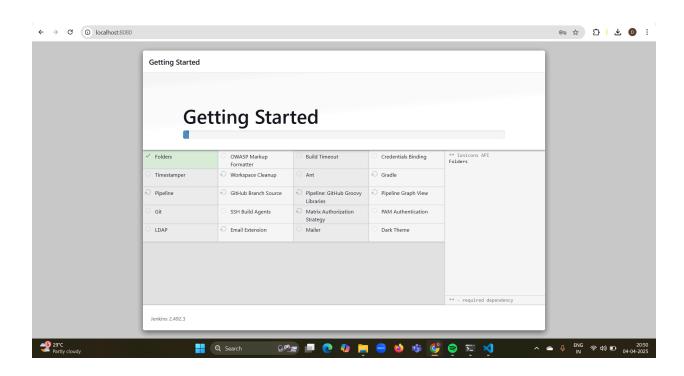
After unlocking Jenkins, you will be asked to install plugins. Choose the option to "Install suggested plugins" to automatically install a set of recommended plugins.

Step 6: Install Additional Plugins

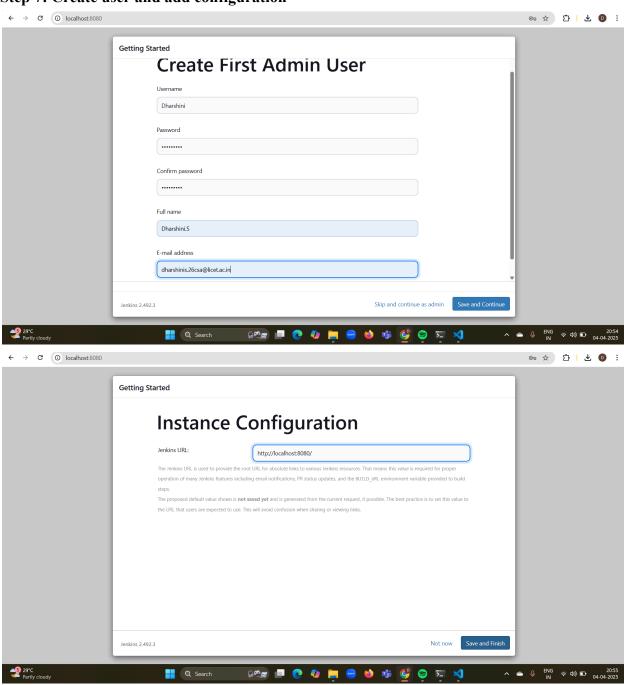
To install the additional plugins such as Copy Artifact, HTML Publisher, and Build Pipeline View:

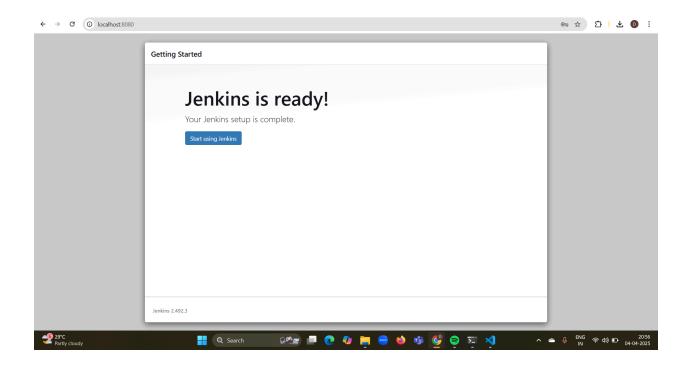
- Go to "Manage Jenkins" à "Manage Plugins".
- Click on the "Available" tab.
- Search for the desired plugins: Copy Artifact, HTML Publisher, and Build Pipeline View.
- Check the box for each plugin and click "Install without restart".





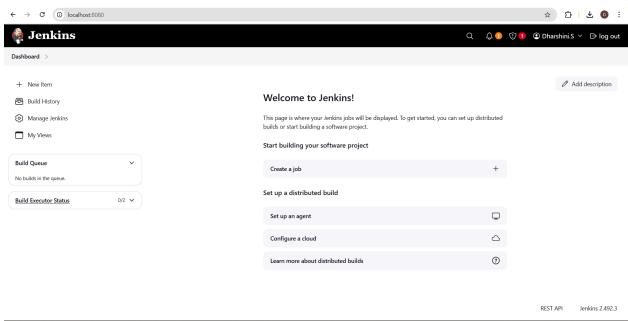
Step 7: Create user and add configuration

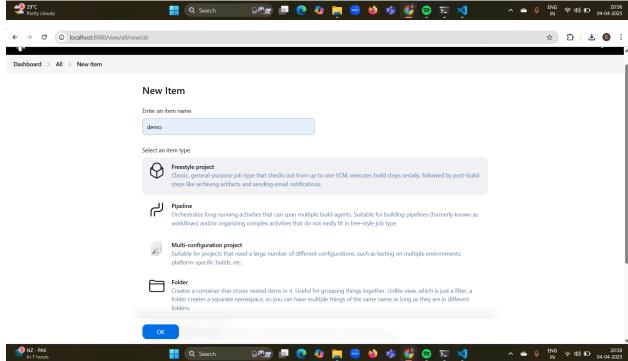


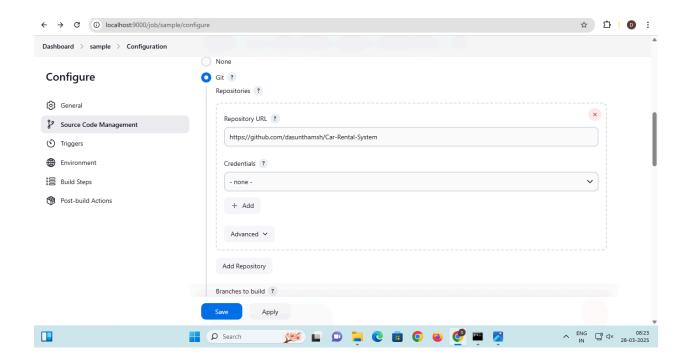


Step 8: Create a New Jenkins Job

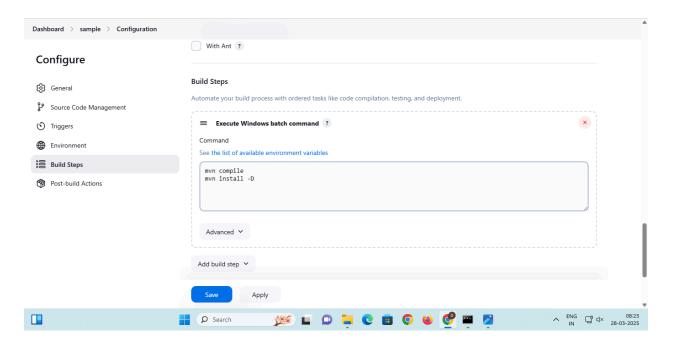
- From the Jenkins dashboard, click on "New Item".
- Enter a name for your job and select "Freestyle project", then click OK.
- Under "Source Code Management", select "Git".
- Enter the URL of your GitHub repository àCheck the branch
- In the "Build" section, click on "Add build step" and select "Invoke top-level Maven targets".
- Enter your Maven goals and options (e.g., clean install).



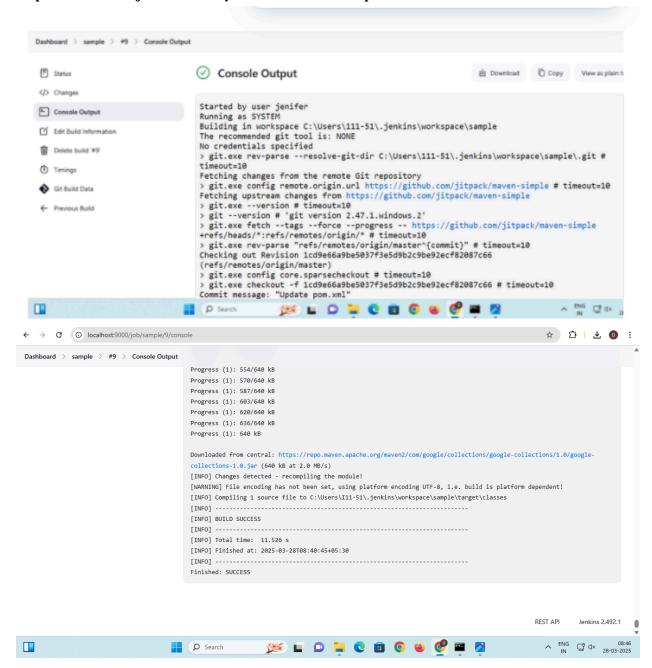




Step 9. Add build step and execute some maven commands and save



Step 10:Build the job and now you can view the output in console



RESULT:

Thus installation and configuration of jenkins is successful.