**Lab Exercise 20**

**Creating a Pipeline Script**

**Objective:** To create a pipeline script for automating build processes in Jenkins

**Tools required:** Jenkins

**Prerequisites:** None

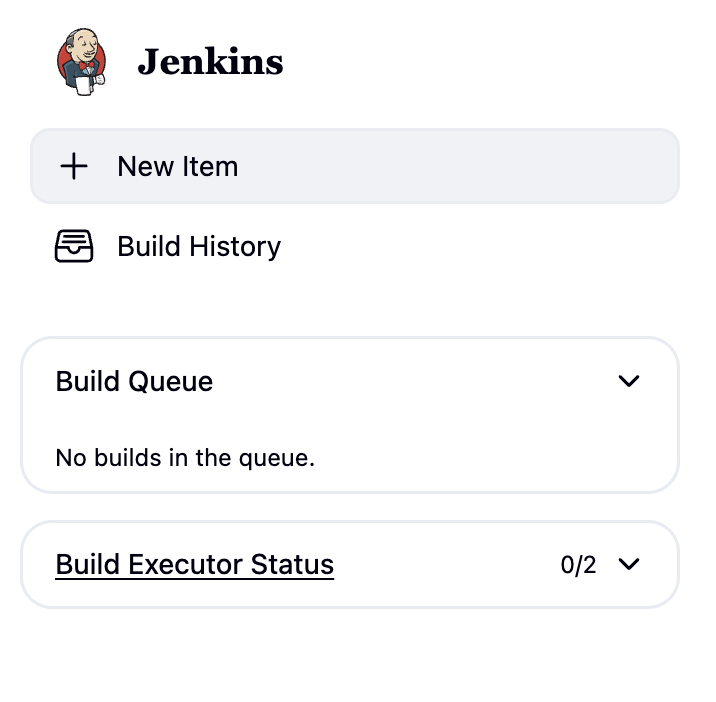
Steps to be followed:

1. Log in to the Jenkins CI tool and create a pipeline script

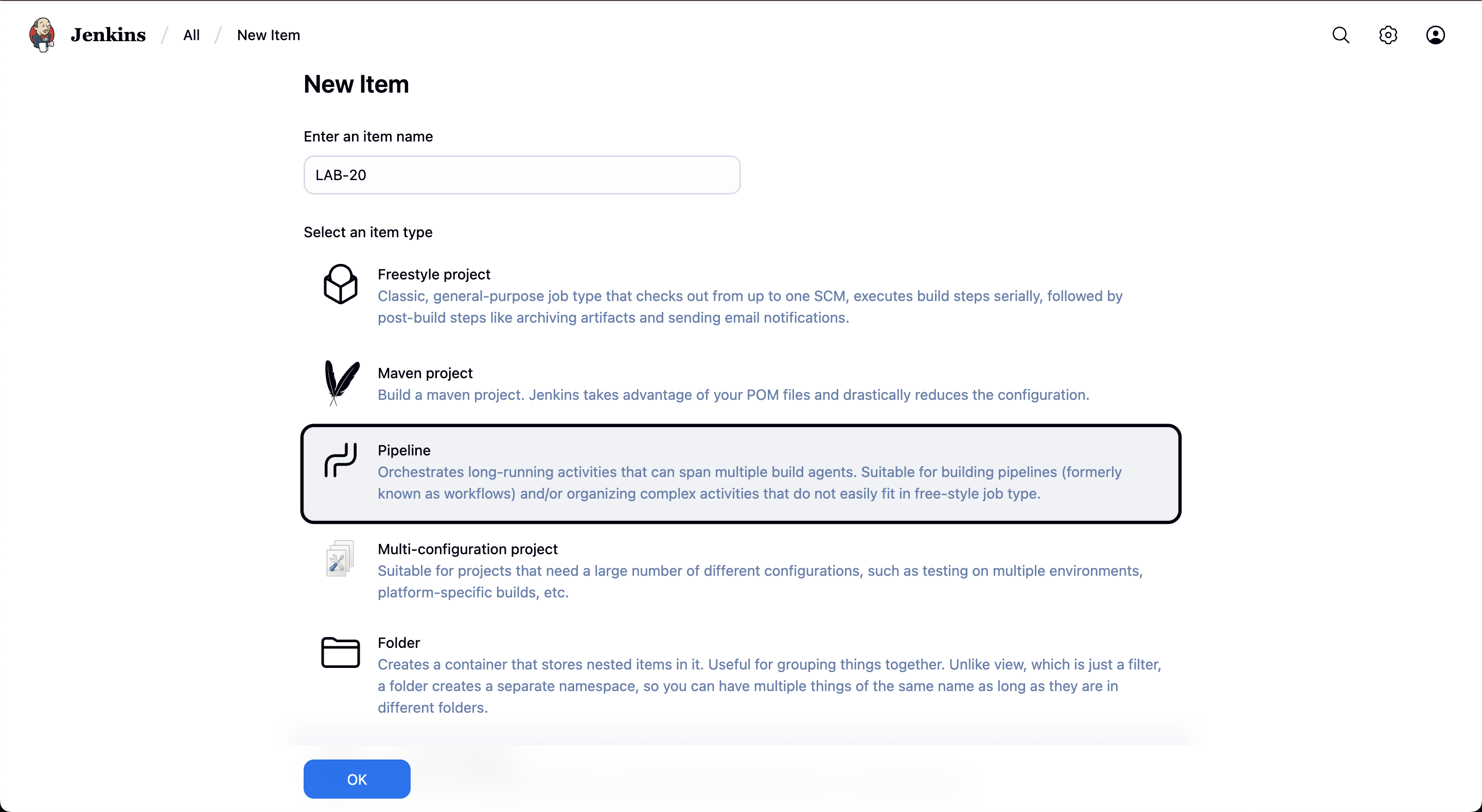
**Step 1: Log in to the Jenkins Cl tool and create a pipeline script**

1. Open the browser, go to the Jenkins **Dashboard** by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button

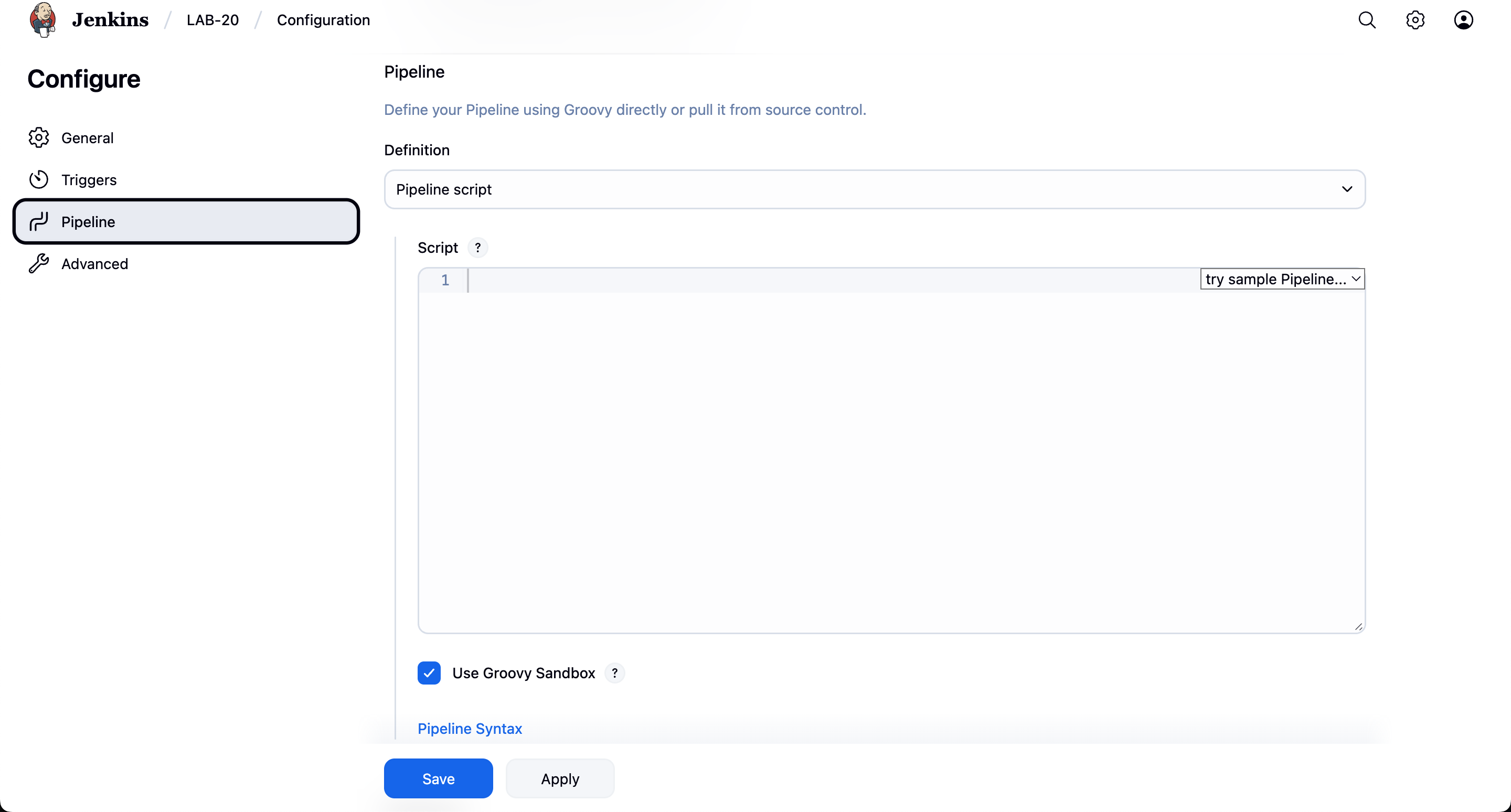
1. Click on the **New Item** option as shown in the screenshot below:



1. Enter a desired name for the project, select **Pipeline**, and then click on **OK** as shown in the screenshot below:



1. Click on **Pipeline** as shown in the screenshot below:



1. Enter the following pipeline script in the script editor and click on **Save** as shown in the screenshot below:

**pipeline {**

**agent any**

**stages {**

**stage("hello") {**

**steps{**

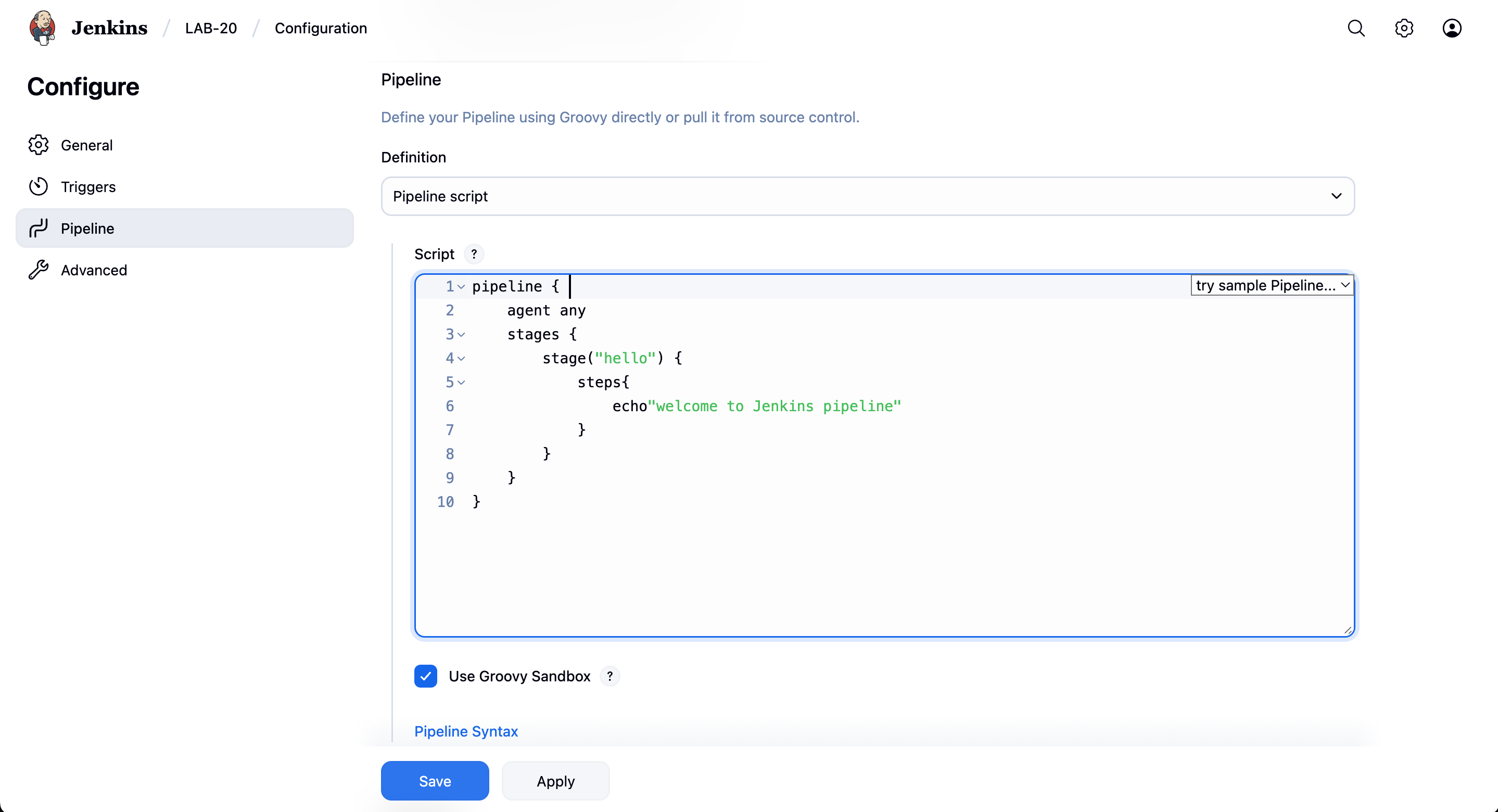
**echo"welcome to Jenkins pipeline"**

**}**

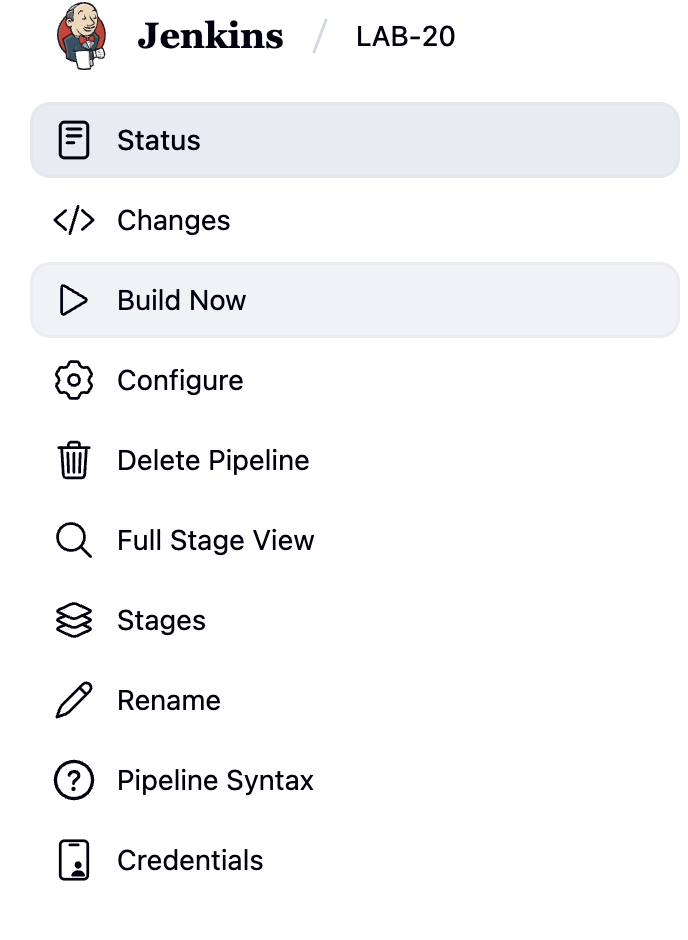
**}**

**}**

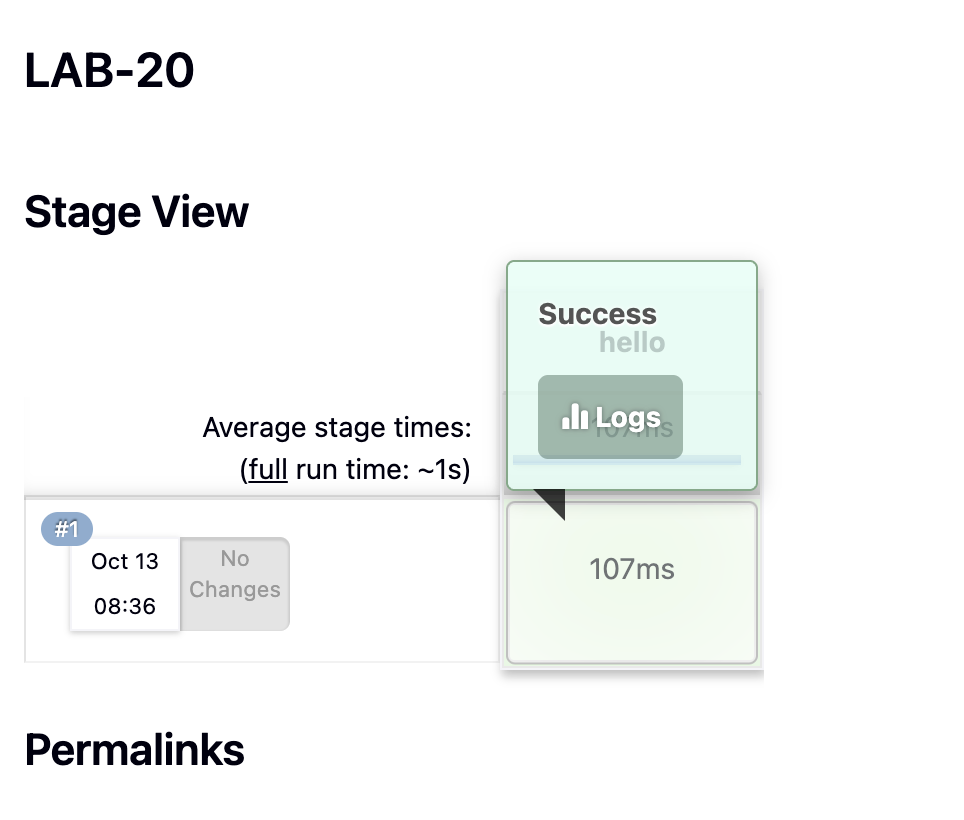
**}**



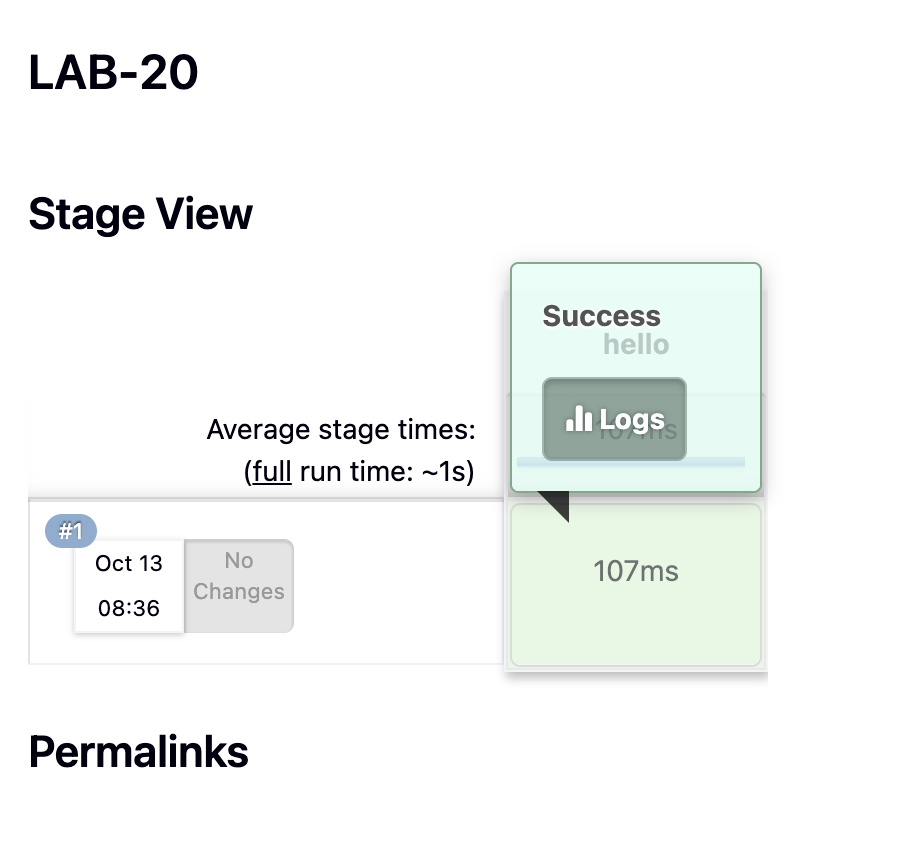
1. Click on **Build Now** to run the pipeline script as shown in the screenshot below:



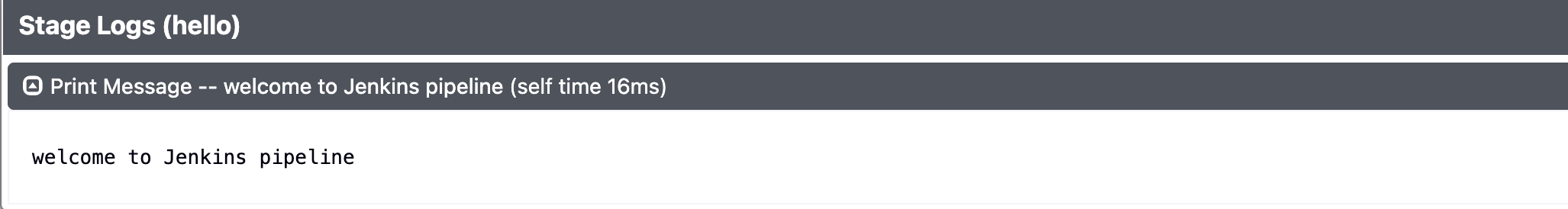
1. Hover over the milliseconds number next to the build stage name as shown in the screenshot below:



1. Click on **Logs** as shown in the screenshot below:



1. Check for the message in the top-left corner to confirm the successful execution of the pipeline stage as shown in the screenshot below:

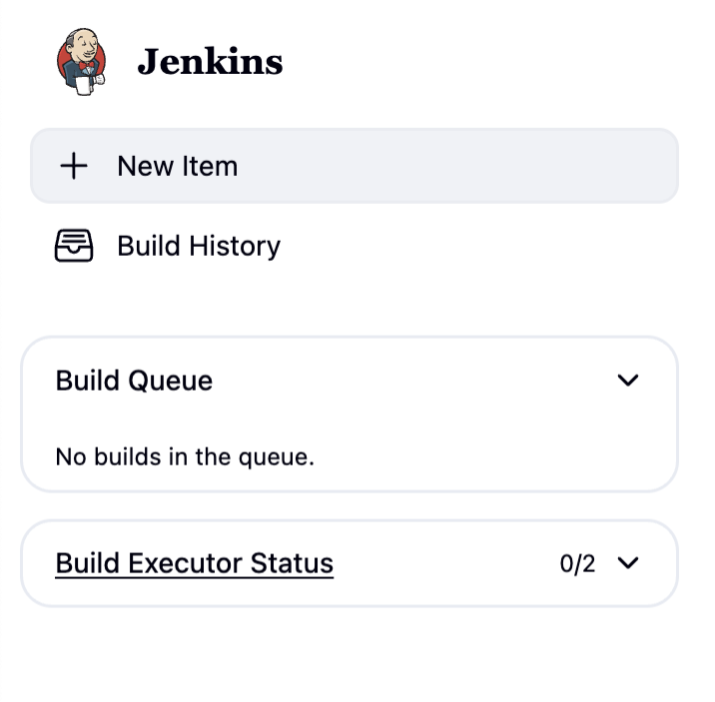


By following these steps, you have successfully created a pipeline script for automating build processes in Jenkins.

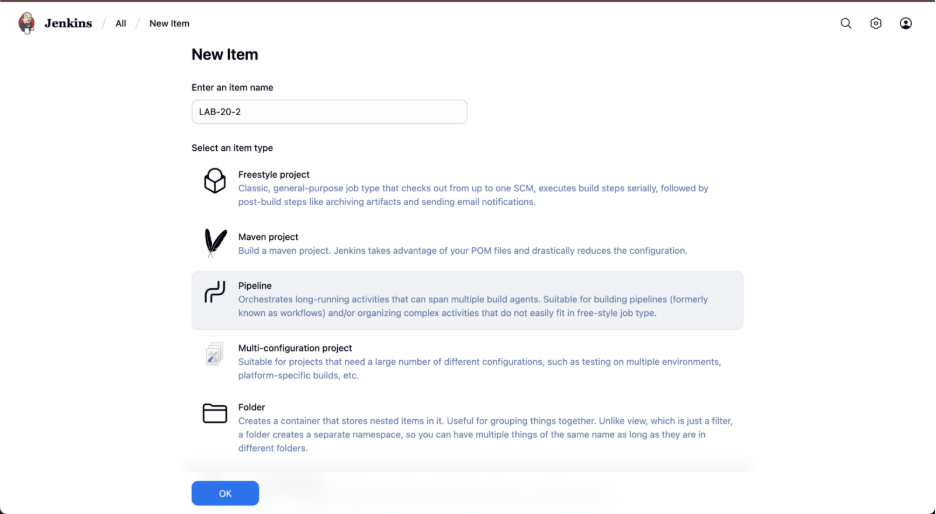
**To Create a Pipeline Using Script from SCM**

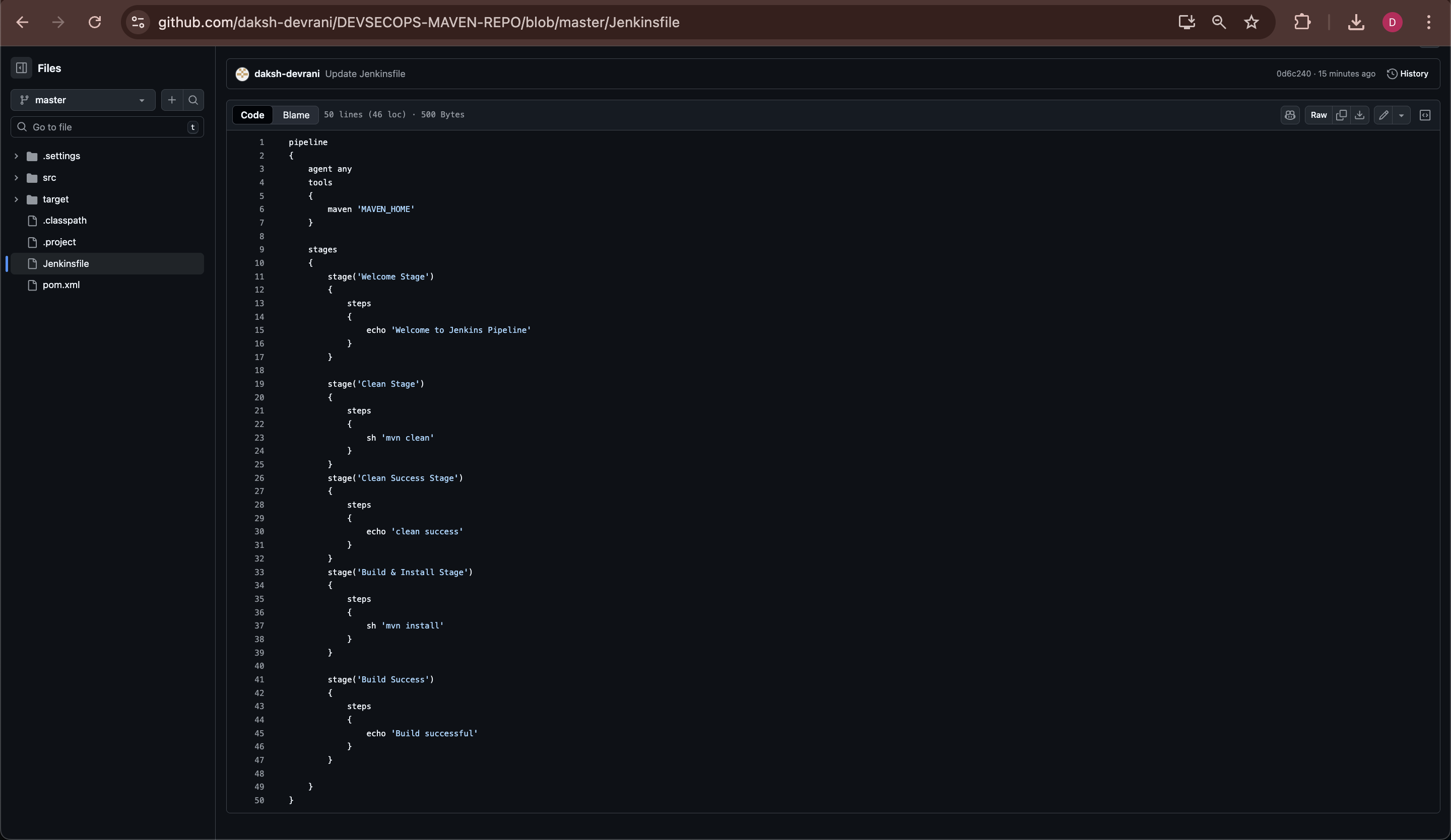
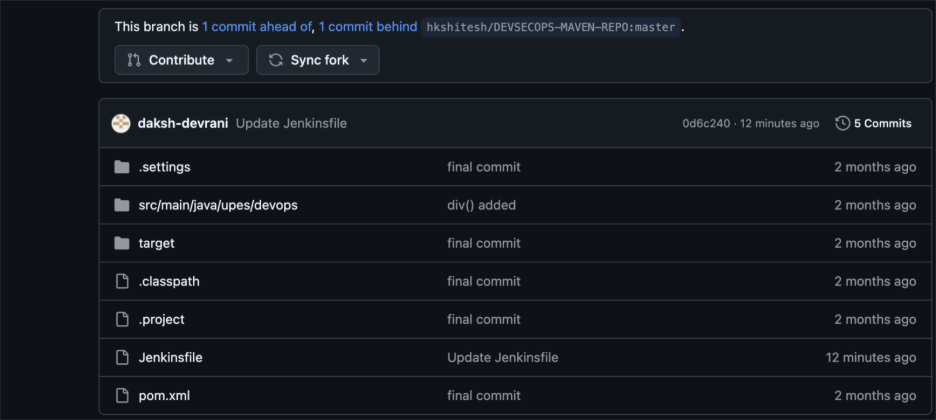
**Step 1: Log in to Jenkins CI and create a new pipeline**

1. Click on the **New Item** option as shown in the screenshot below:

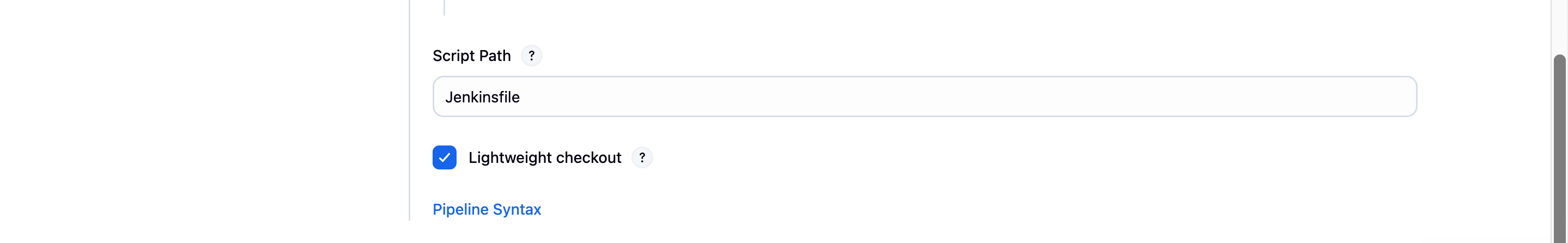
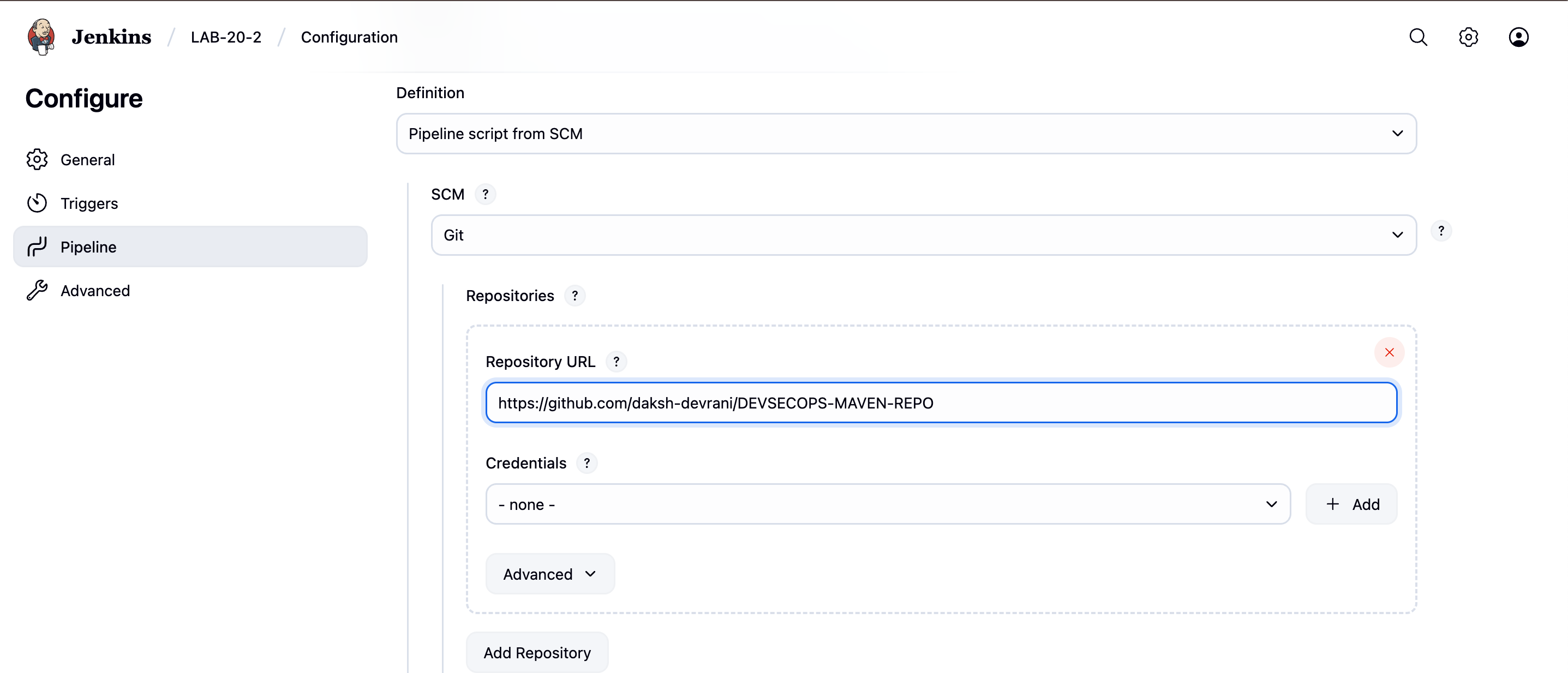


1. Enter a desired name for the project, select **Pipeline**, and then click on **OK** as shown in the screenshot below:

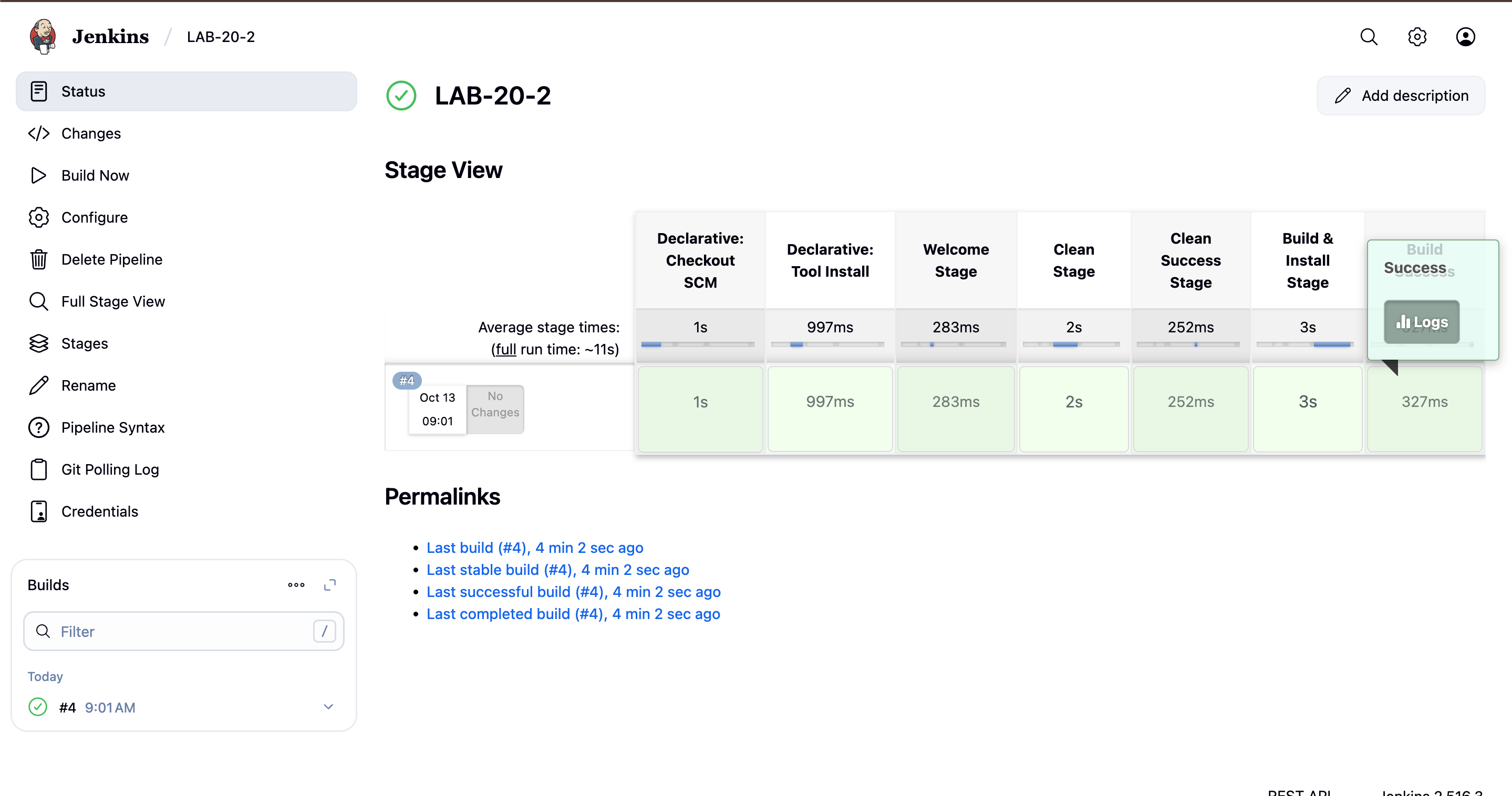


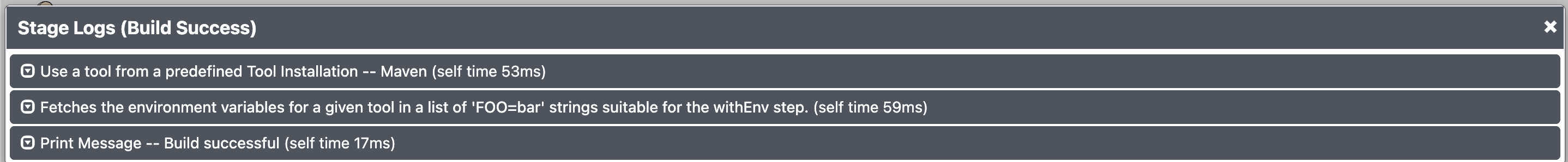
Step 2: Create A Github Repo And create a pipeline script in it with the name Jenkinsfile  


Step 3: Go to Pipeline option and choose the pipeline script from scm and provide the repo url and the script name



Step 4: Let the build start and check the logs to confirm success





Step 5(optional): Go to poll scm and enter a schedule

