**Lab Exercise 20**

**Creating a Pipeline Script**



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**

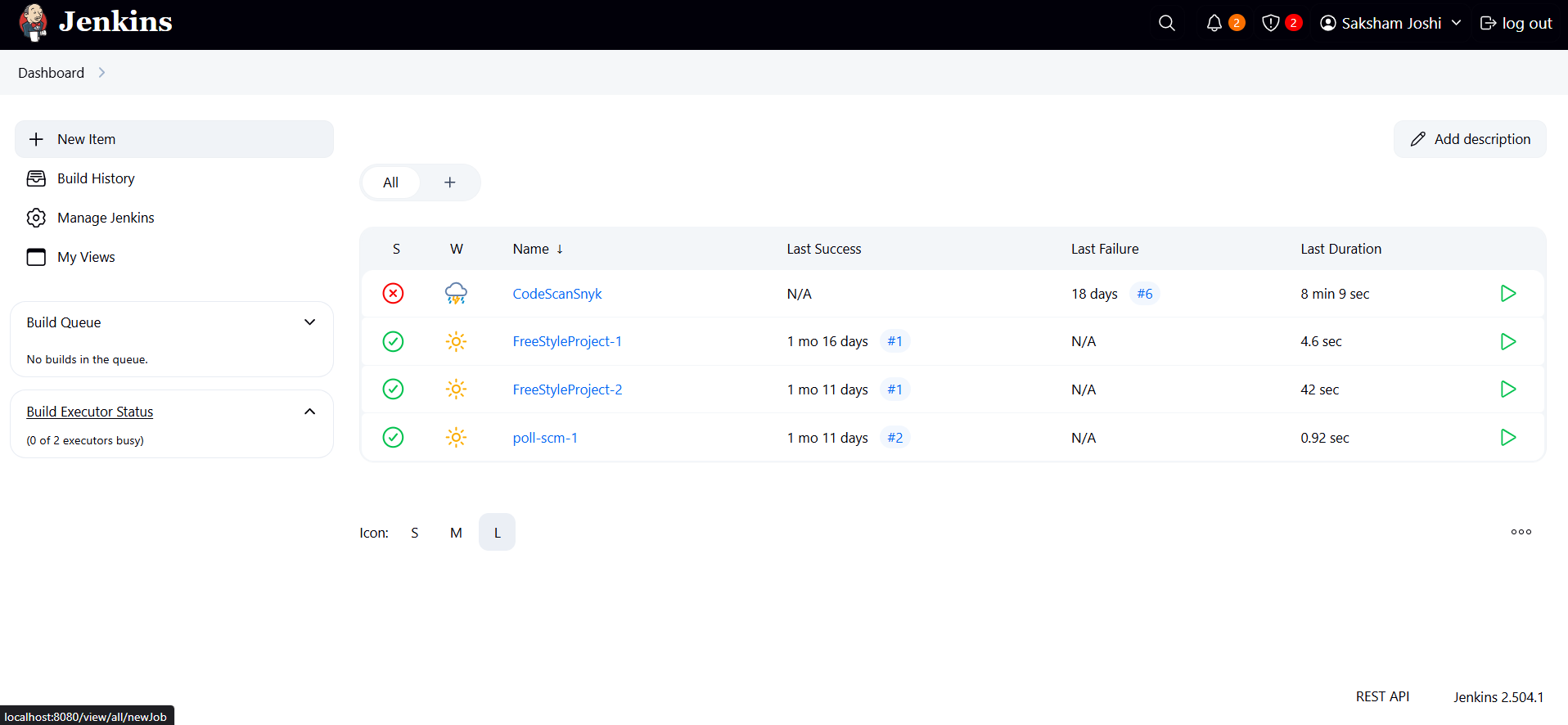
1. Open the browser, go to the Jenkins **Dashboard** by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign-in** button

A screenshot of a login page

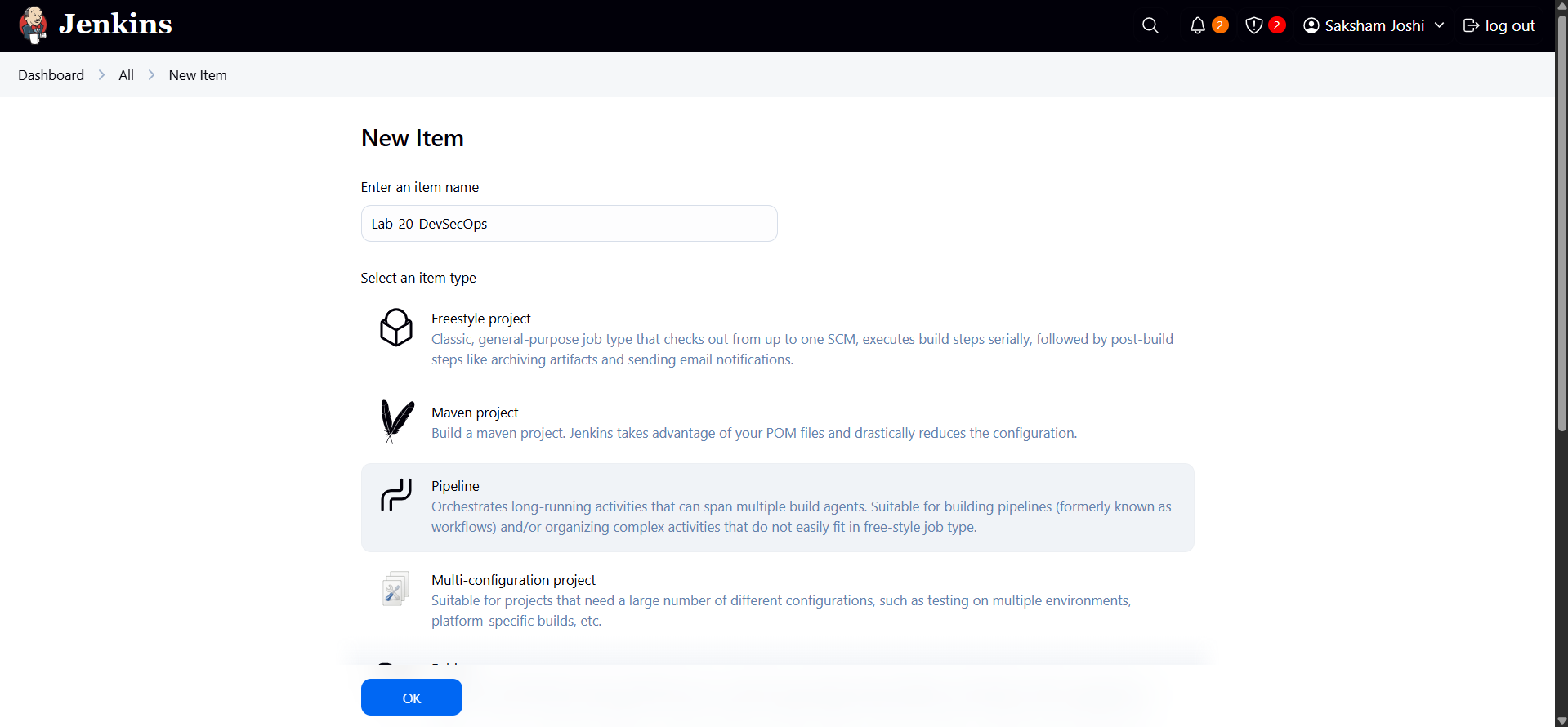
Description automatically generated  


| **Note:** The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**. |
| --- |

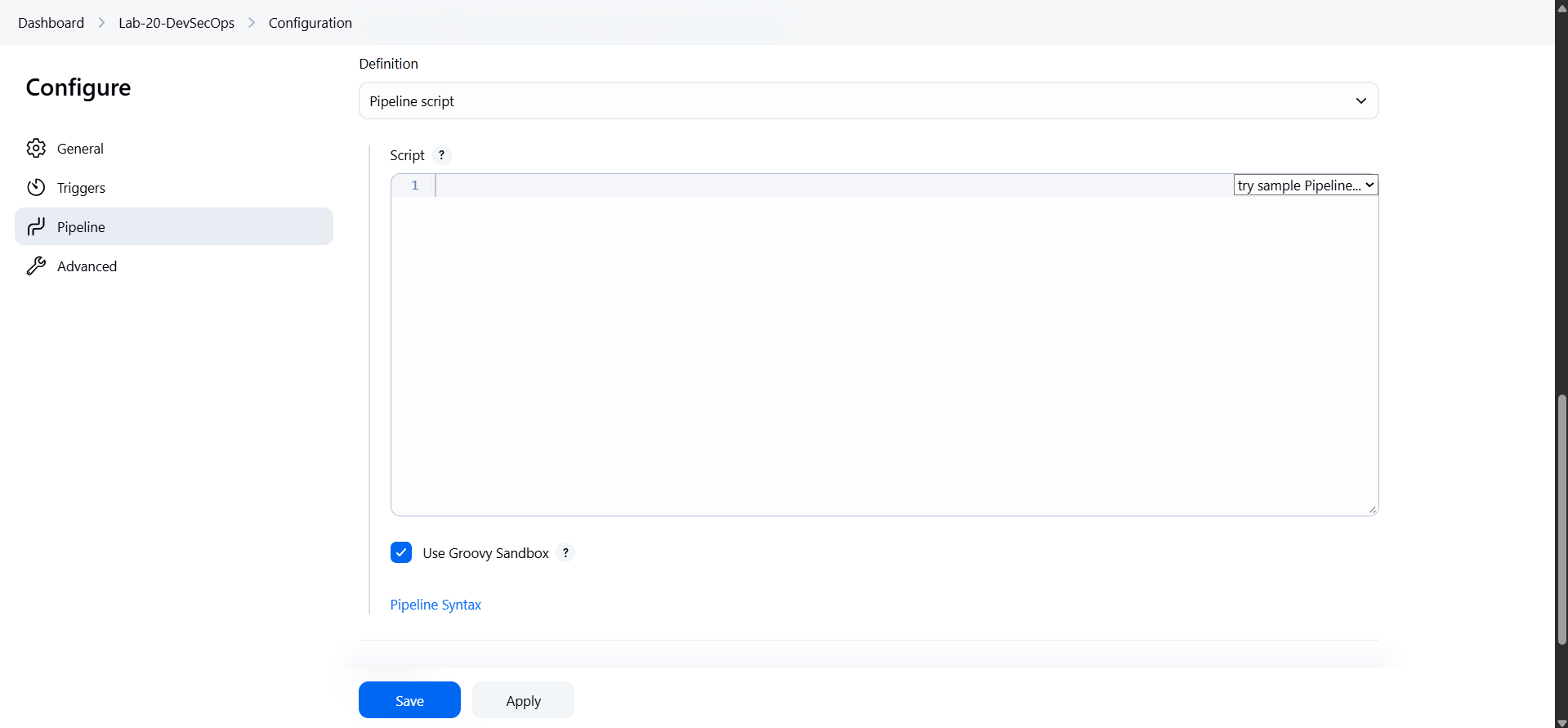
1. Click on the **New Item** option as shown in the screenshot below:



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{**

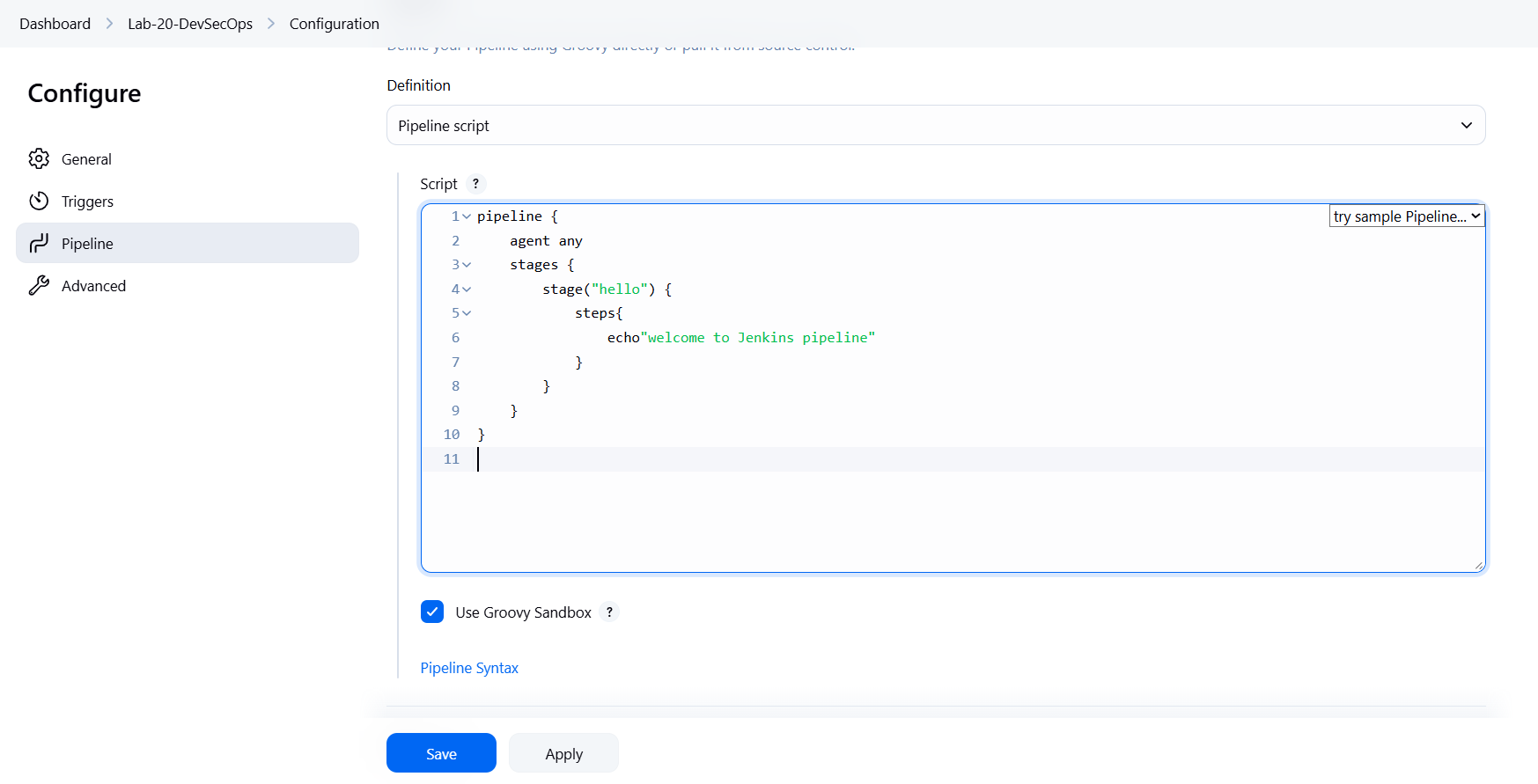
**echo"welcome to Jenkins pipeline"**

**}**

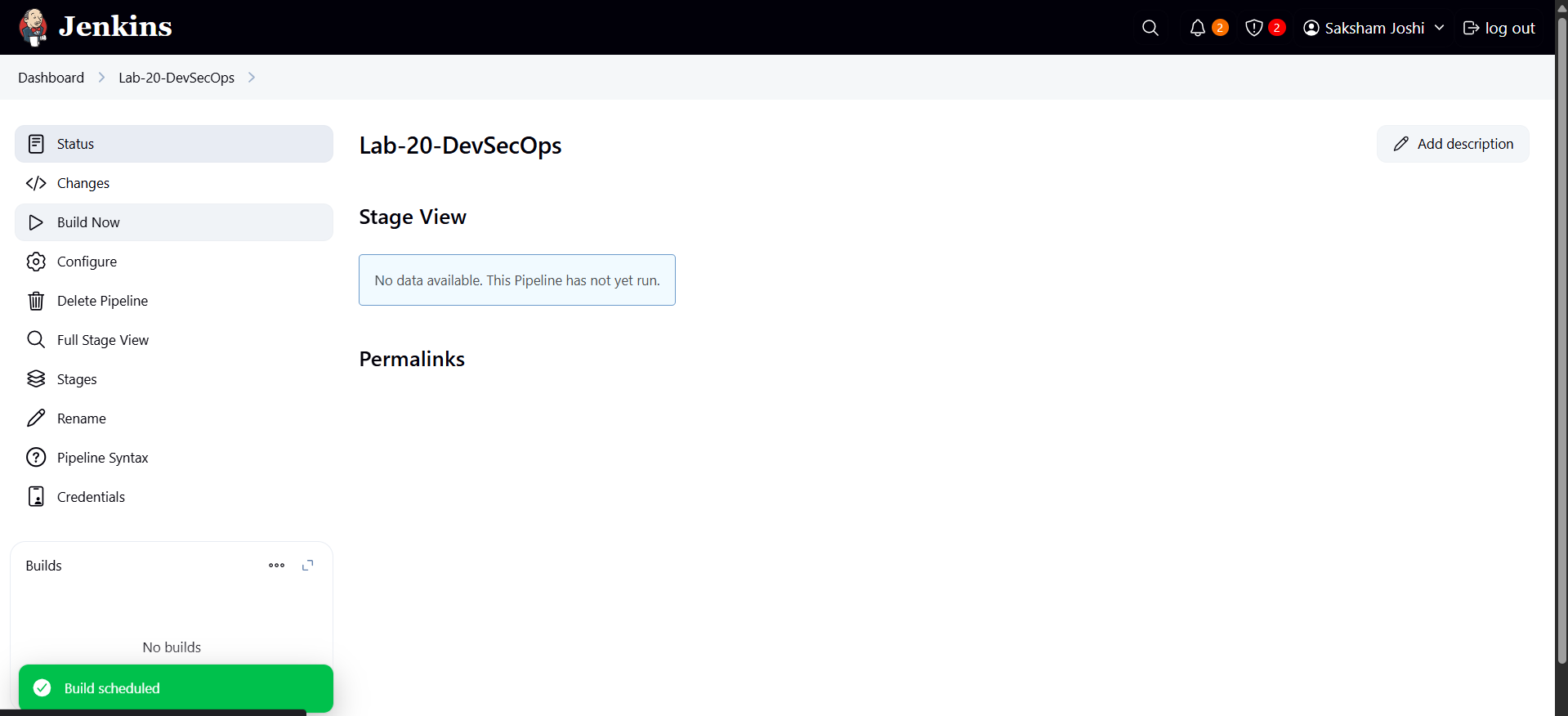
**}**

**}**

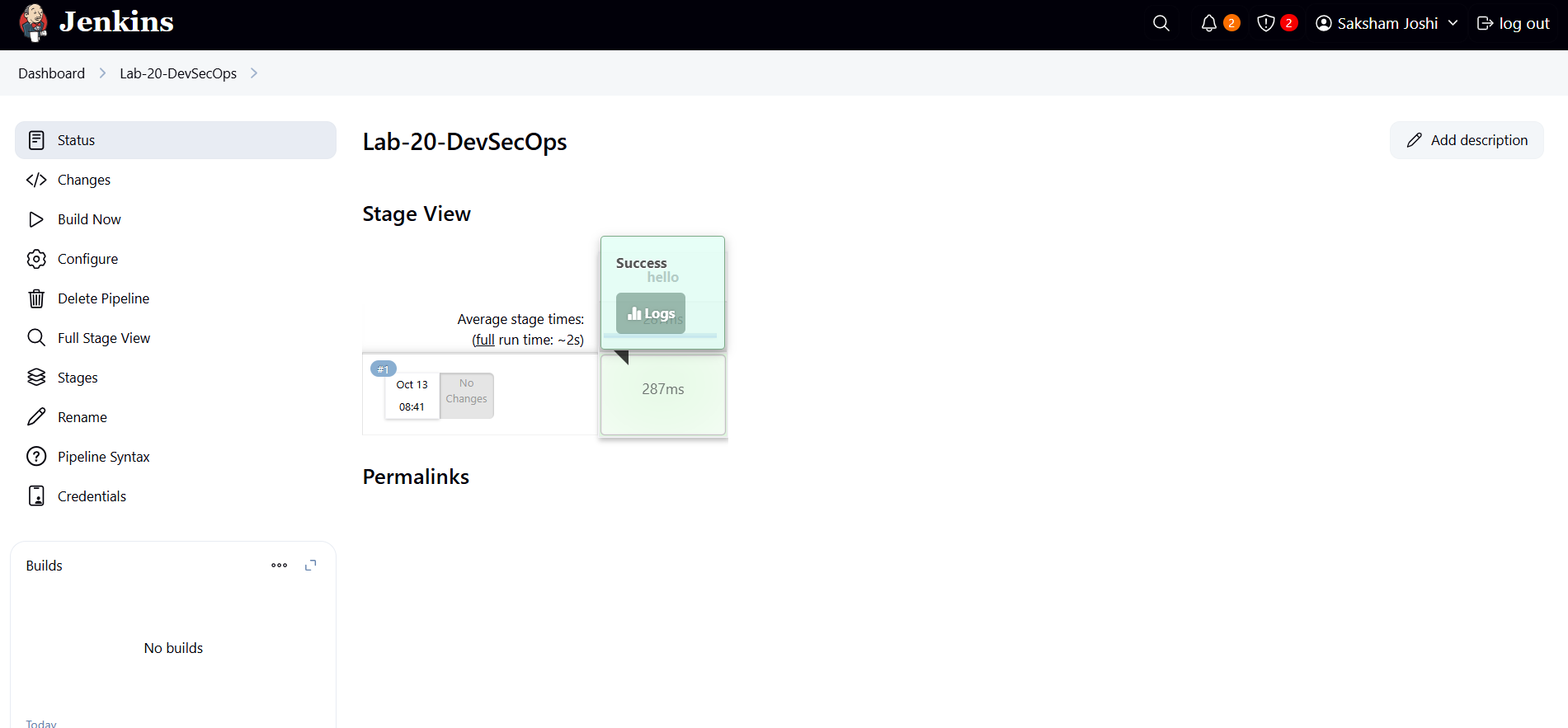
**}**



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

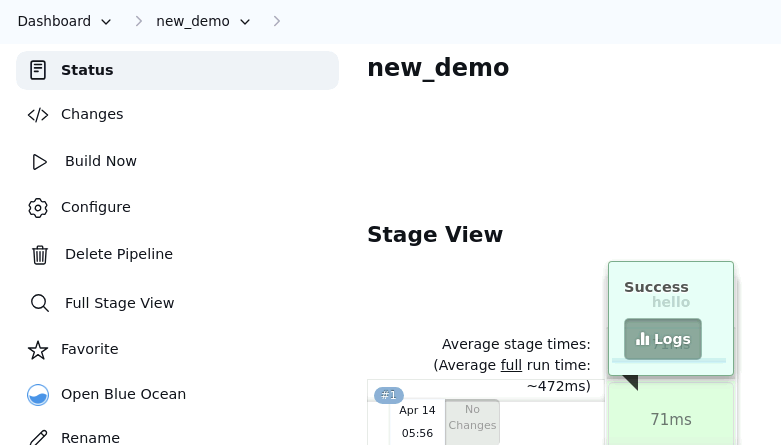


1. Hover over the milliseconds number next to the build stage name as shown in the screenshot below:

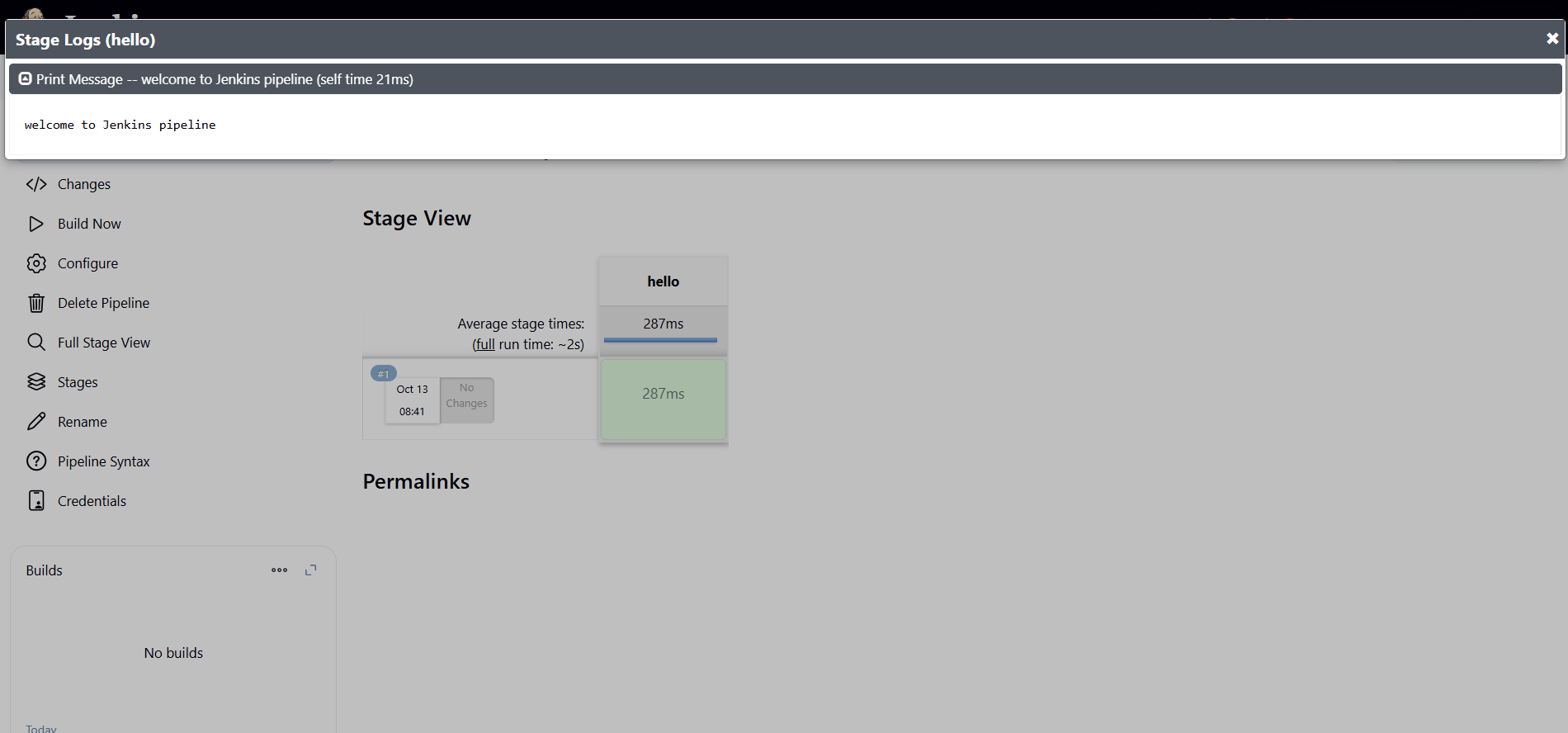


| **Note:** Ensure that you hover the cursor over the milliseconds number without clicking on it |
| --- |

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

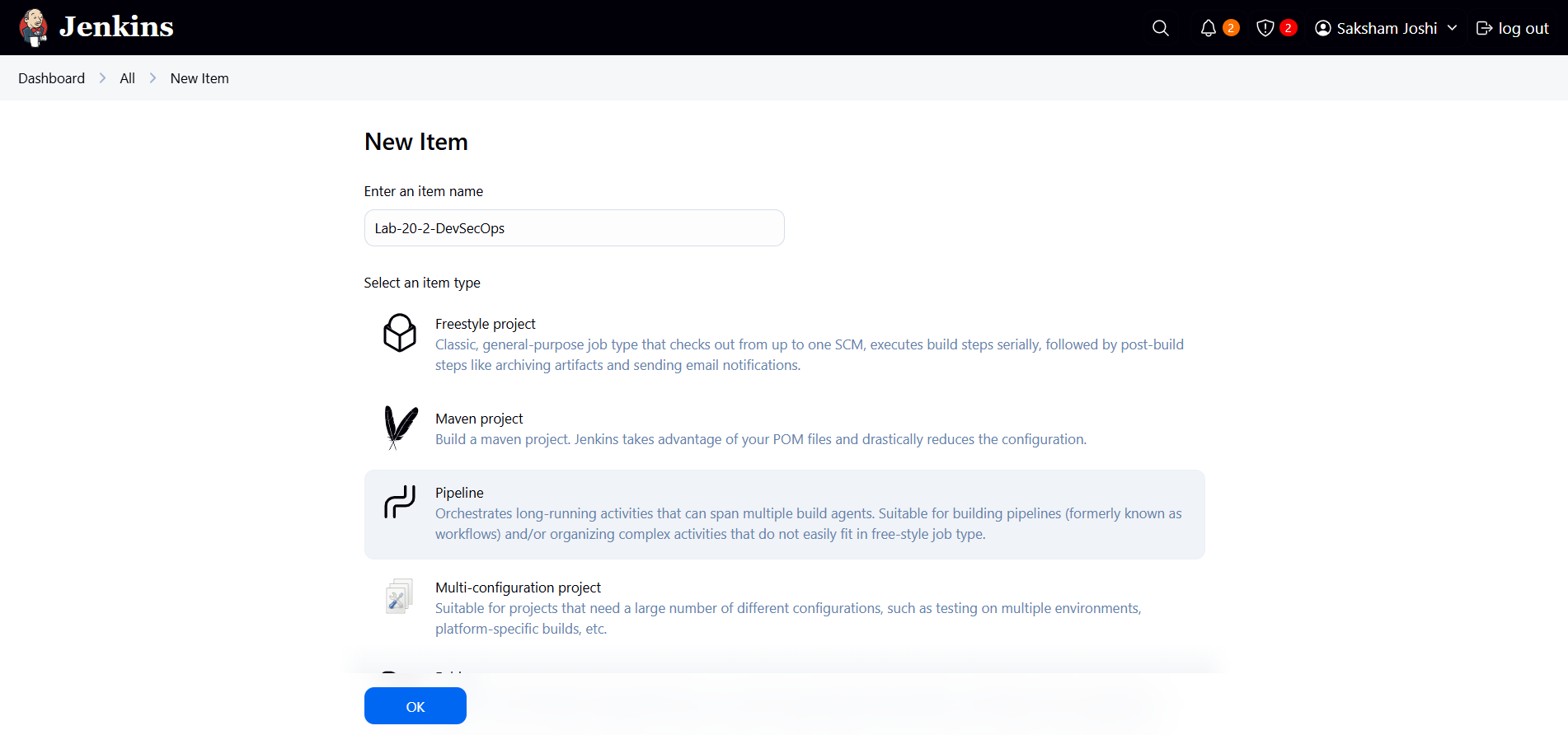
1. Check for the message in the top-left corner to confirm the successful execution of the pipeline stage as shown in the screenshot below:



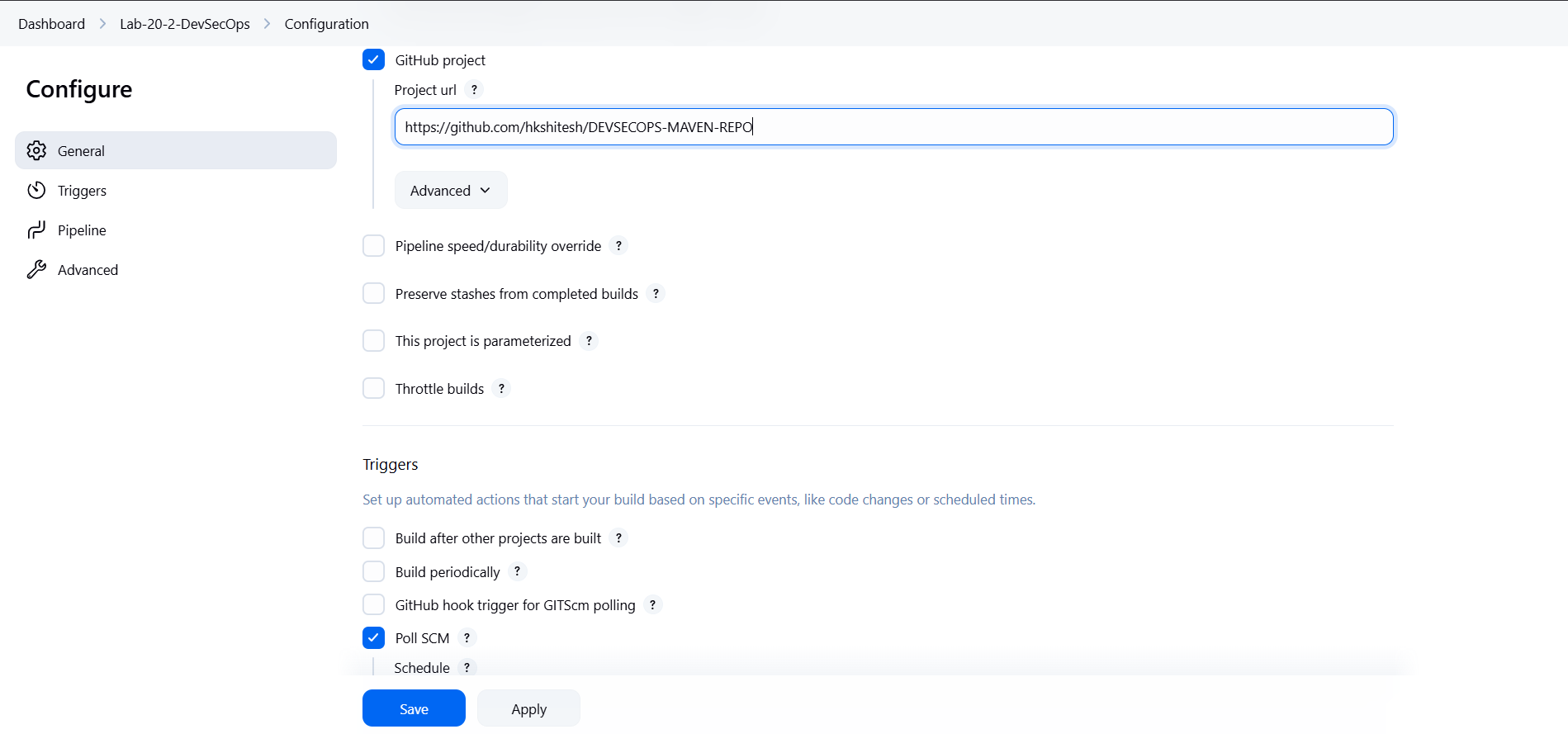
By following these steps, you have successfully created a pipeline script for automating build processes in Jenkins.

**CREATING A JENKINS PIPELINE FOR A JAVA PROJECT.**

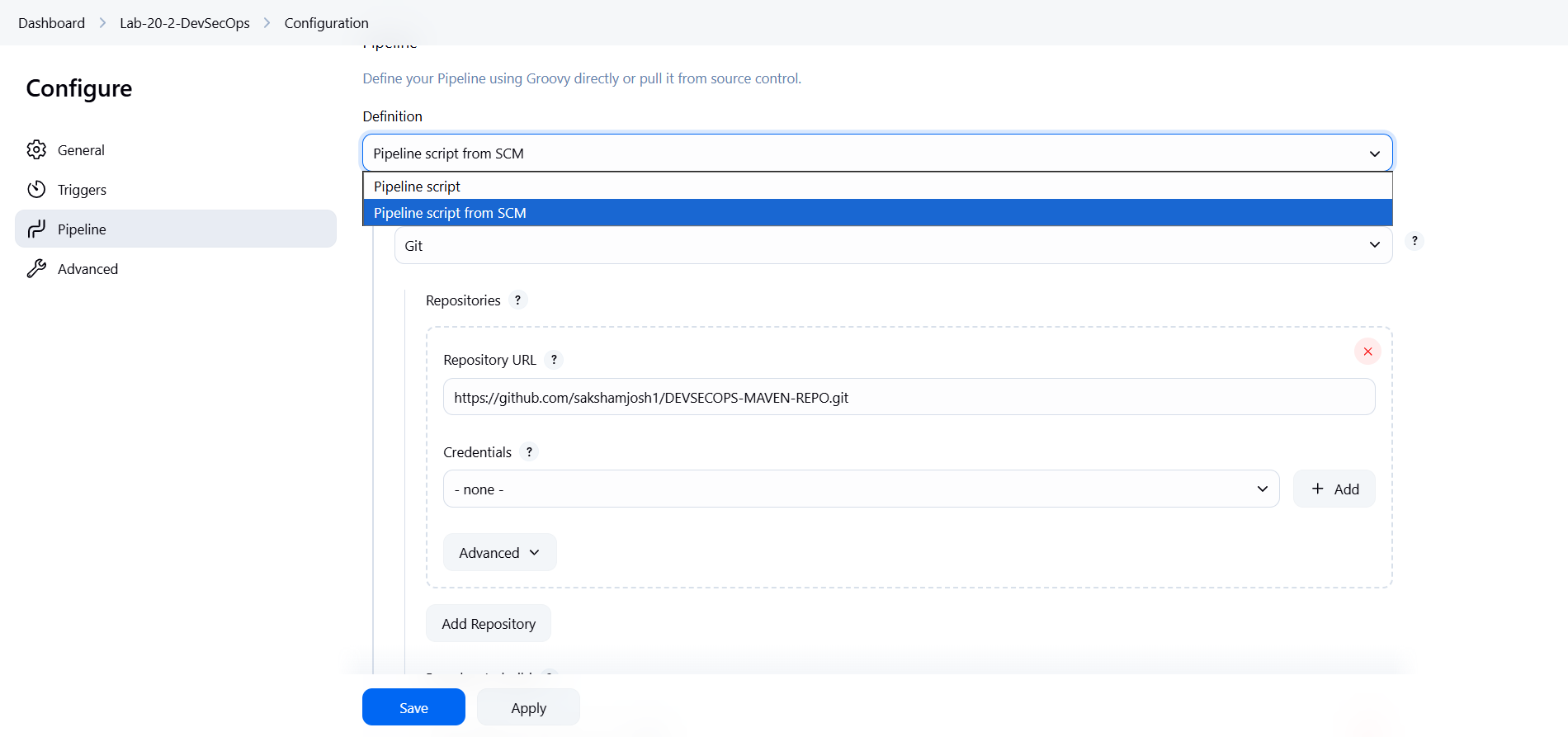
1. Creating the project by selecting the pipeline option.

****

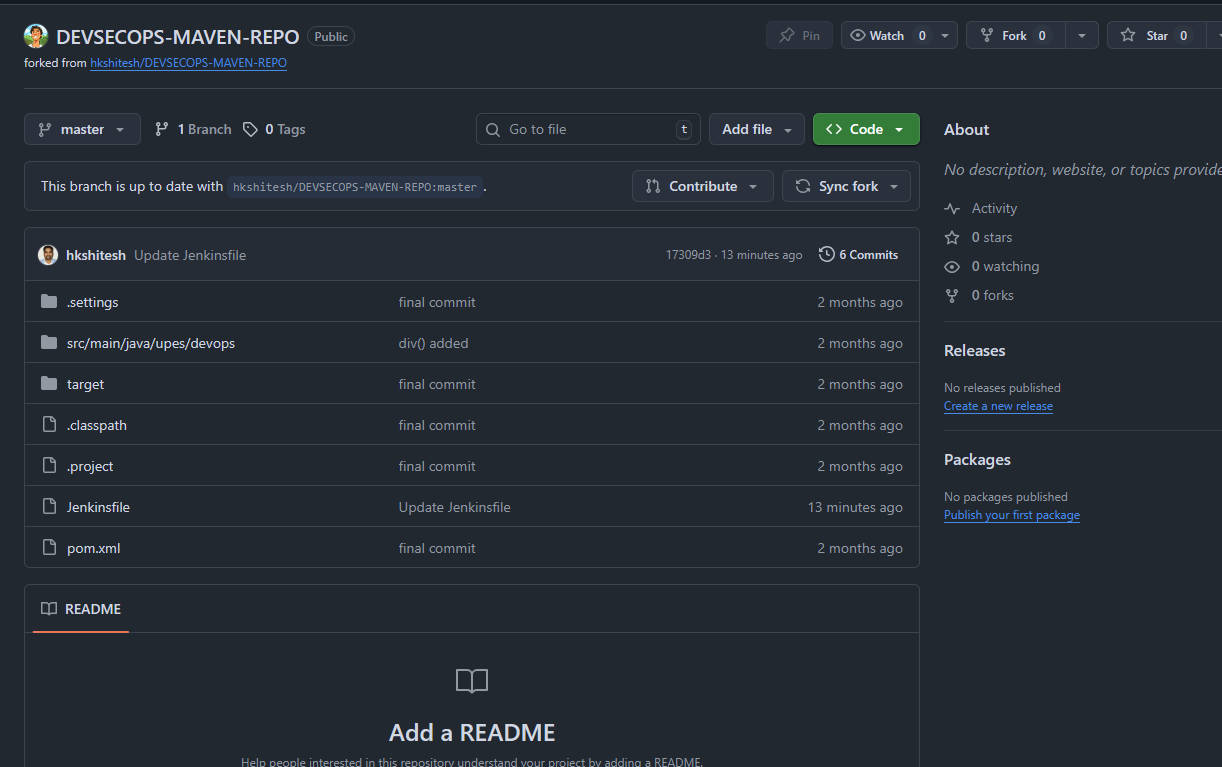
1. **Adding the GitHub project url.**

****

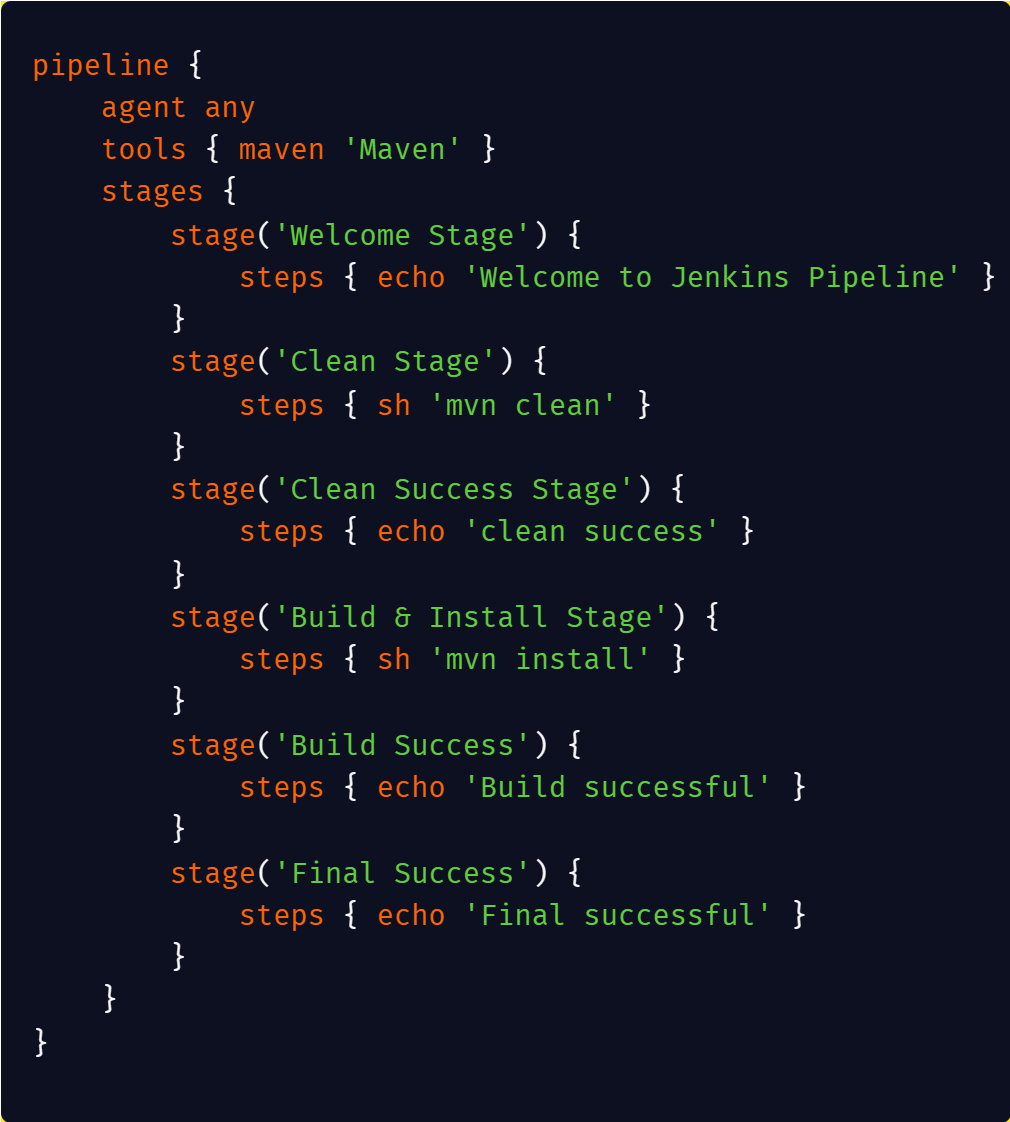
1. **Adding the pipeline script from the repository automatically.**

****

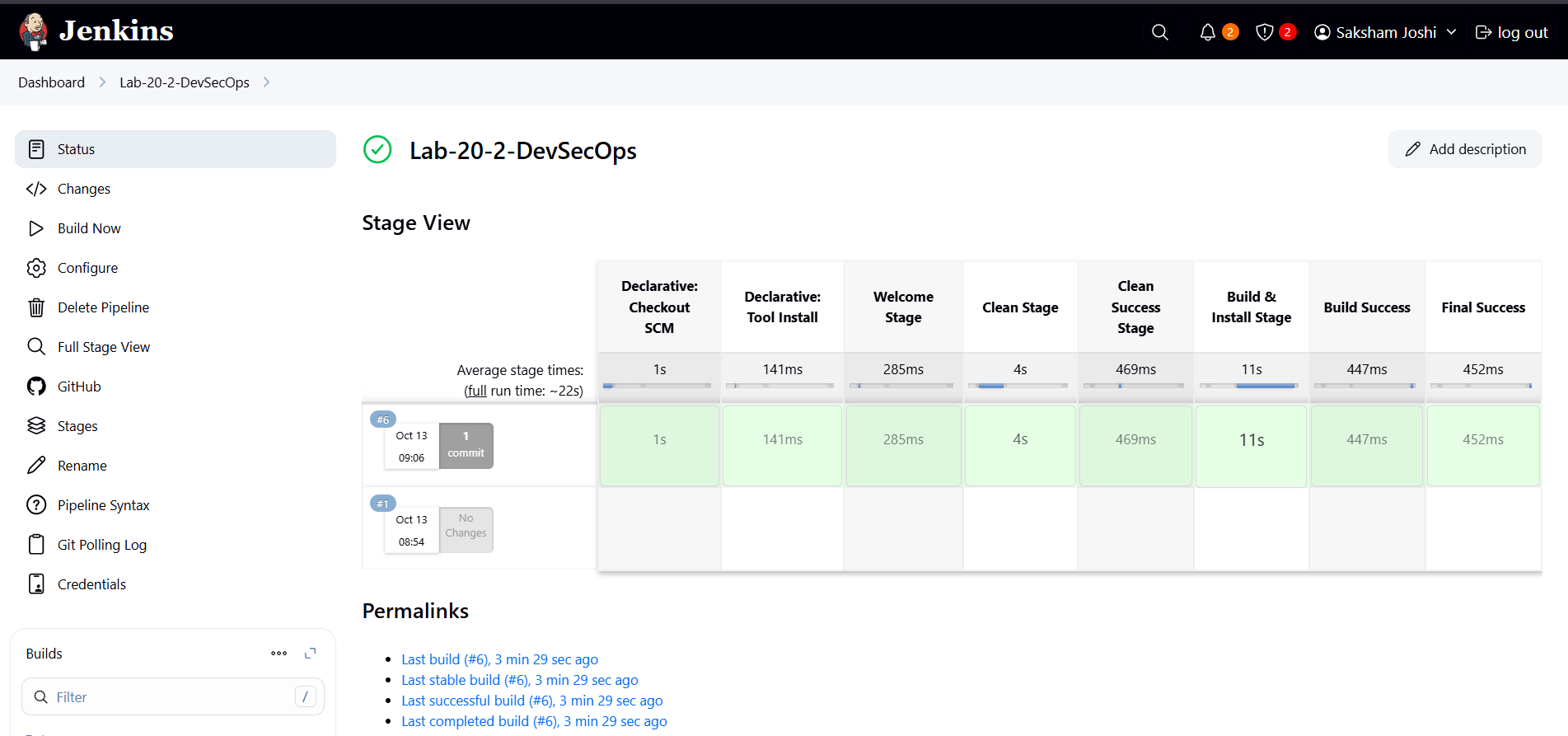
1. **Repository where Jenkinsfile is present.**

****

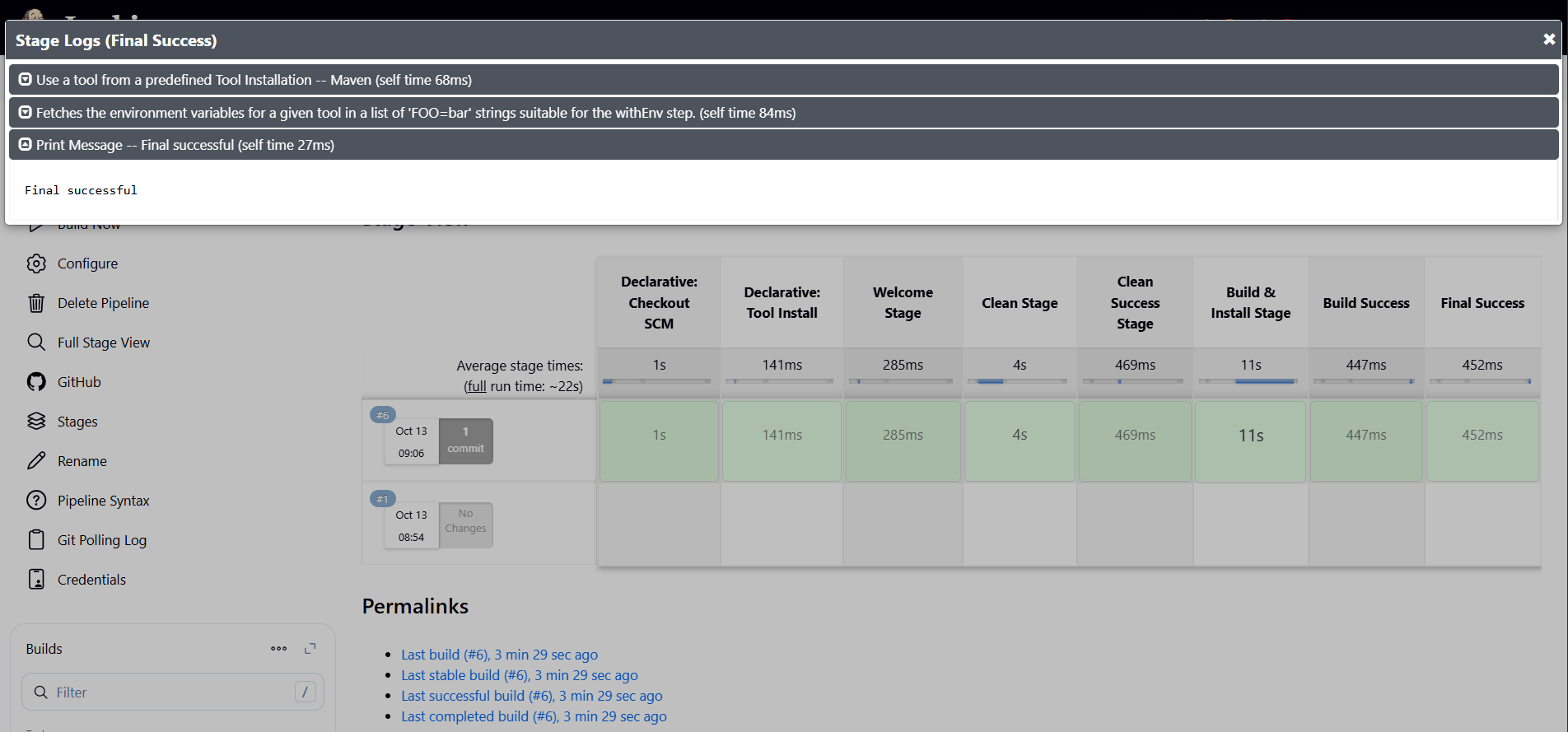
1. **Pipeline Script:**

****

1. **Build Successful**

****

1. **Final Successful message**

****