

Lesson 05 Demo 06

Remote Triggering of a Parameterized Build

Objective: To trigger parameterized builds in Jenkins remotely to use scripts to send requests to Jenkins

Tools required: Jenkins

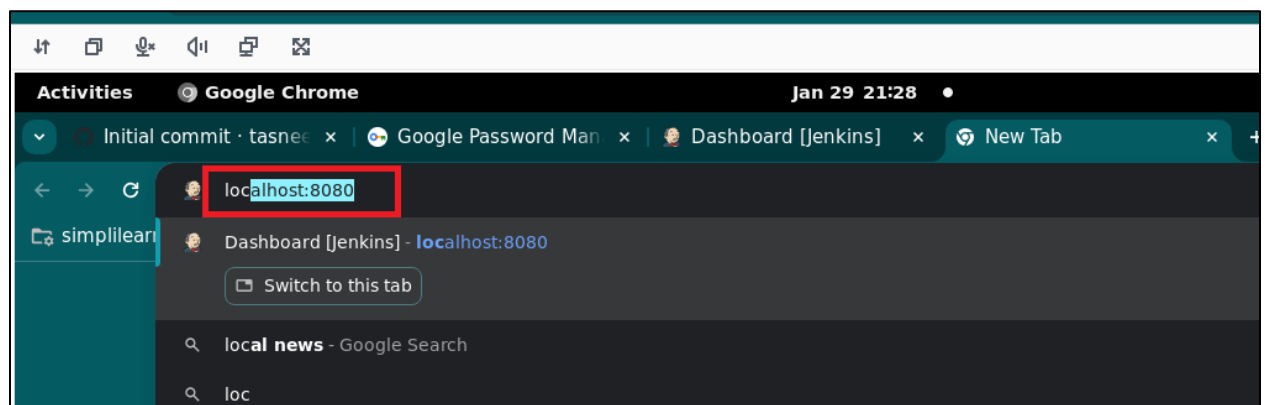
Prerequisite: Please ensure you have Jenkins installed to proceed. In case you don't have it installed, you can refer to demo 1 of lesson 5 to install Jenkins

Steps to be followed:

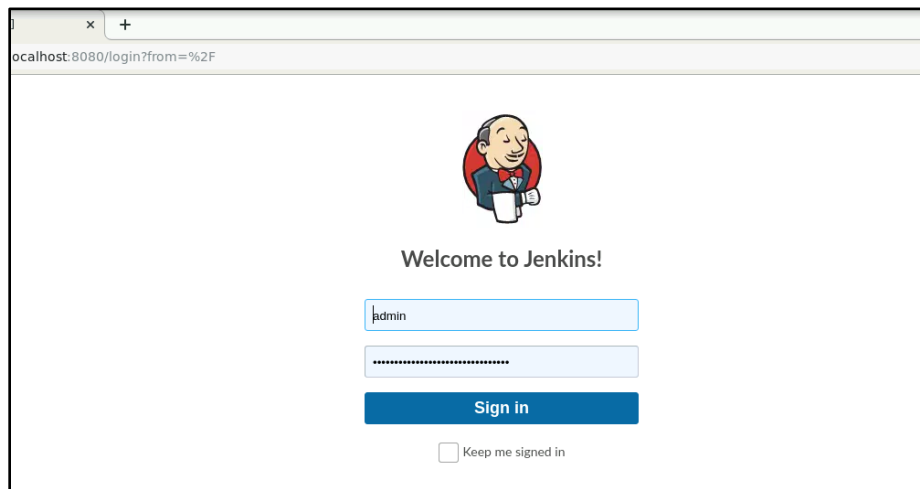
1. Configure a parameterized build in Jenkins
2. Trigger a parameterized build remotely

Step 1: Configure a parameterized build in Jenkins

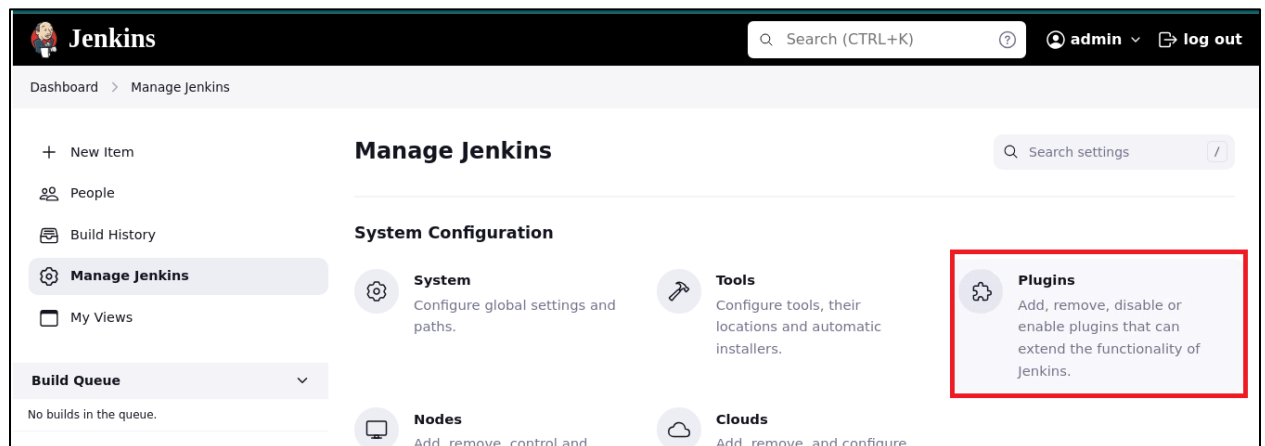
- 1.1 Open the chrome browser and navigate to **Jenkins dashboard** by typing **localhost:8080**



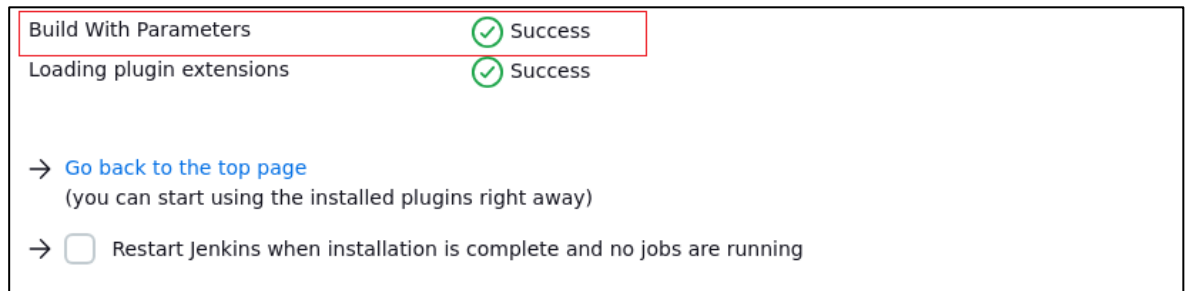
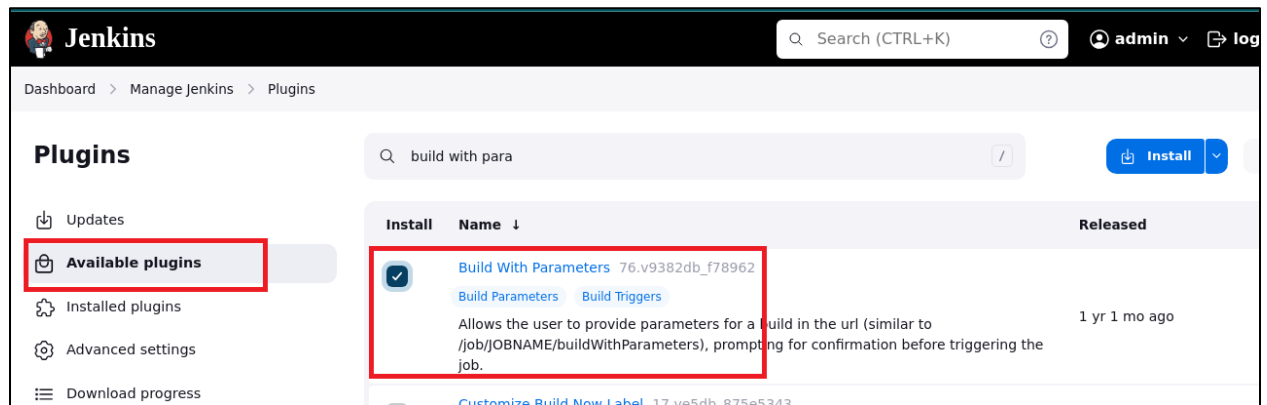
1.2 Provide the credentials and click on **Sign in**



1.3 Click on **Manage Jenkins** and choose **Plugins**

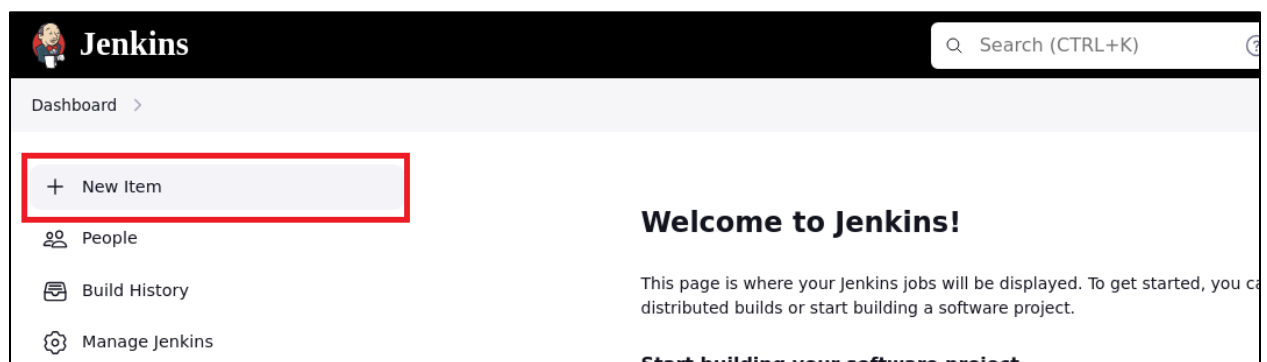


1.4 Navigate to **Available plugins** tab, search for **Build with Parameters** Plugin, select the checkbox and click on the **Install** button

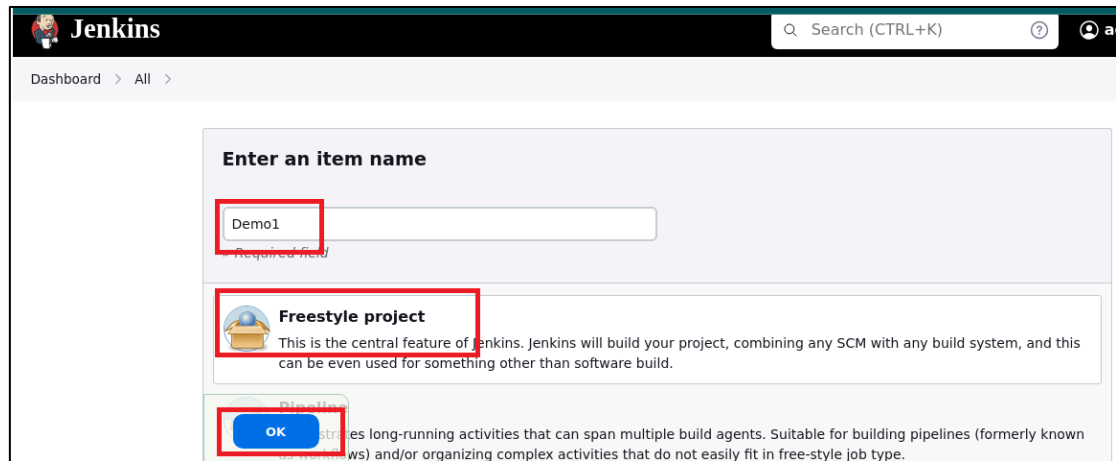


Build with parameters plugins are installed successfully.

1.5 Navigate back to the Jenkins Dashboard, click on **New Item**

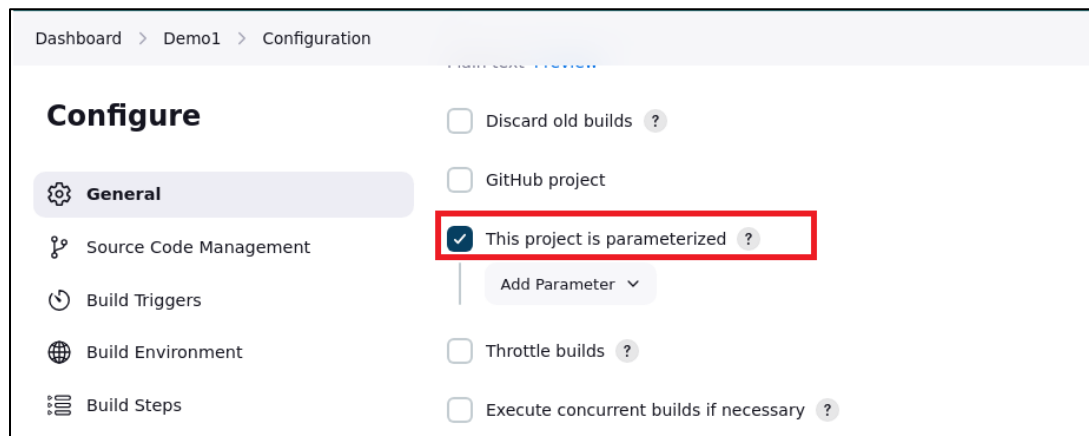


1.6 Enter an item name as **Demo1** for your project, select the **Freestyle project** as the build job type then click on **OK**



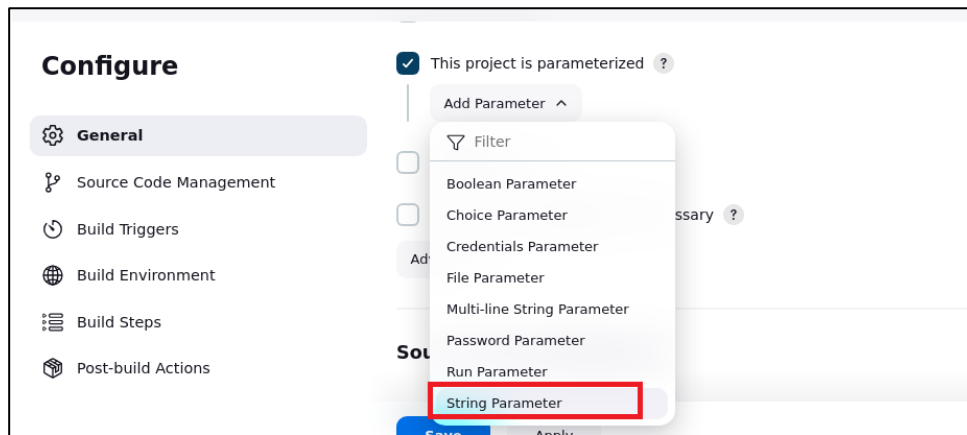
The screenshot shows the Jenkins 'Enter an item name' dialog box. The 'Item name' field contains 'Demo1'. The 'Project type' dropdown is set to 'Freestyle project'. The 'OK' button is highlighted with a red box.

1.7 On **Configure** page, click on **This project is parameterized ?**

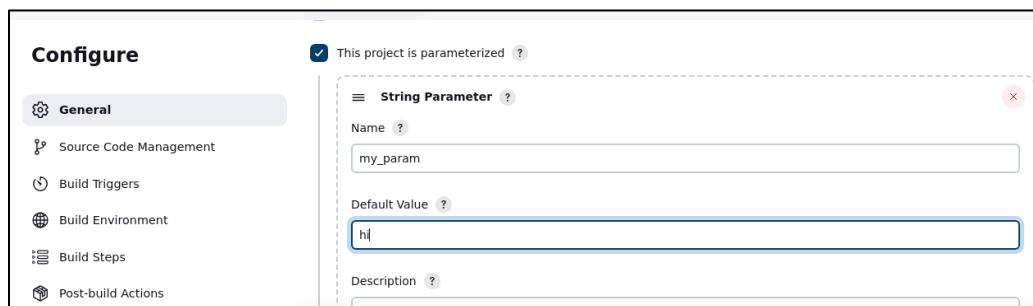


The screenshot shows the Jenkins 'Configure' page for the 'Demo1' project. The 'General' tab is selected. The checkbox 'This project is parameterized ?' is checked and highlighted with a red box. Other options include 'Discard old builds', 'GitHub project', 'Throttle builds', and 'Execute concurrent builds if necessary'.

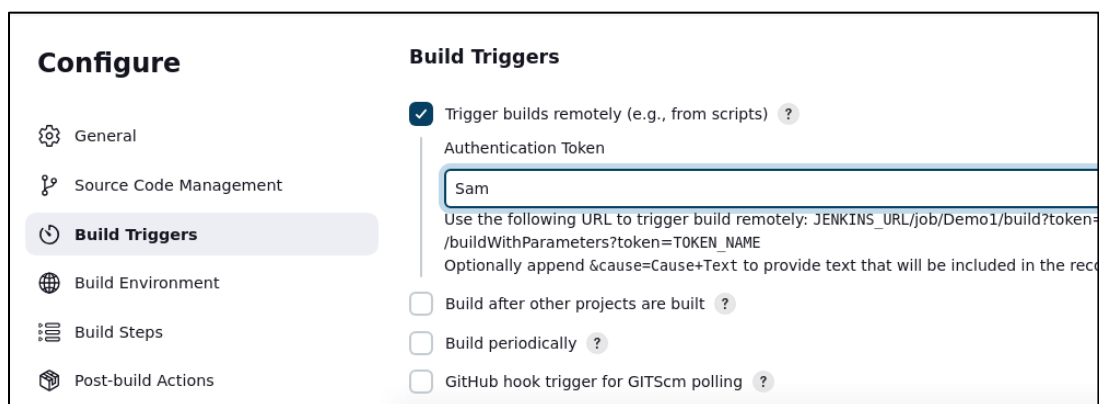
1.8 Then, click on **Add parameter** and select **String Parameter**



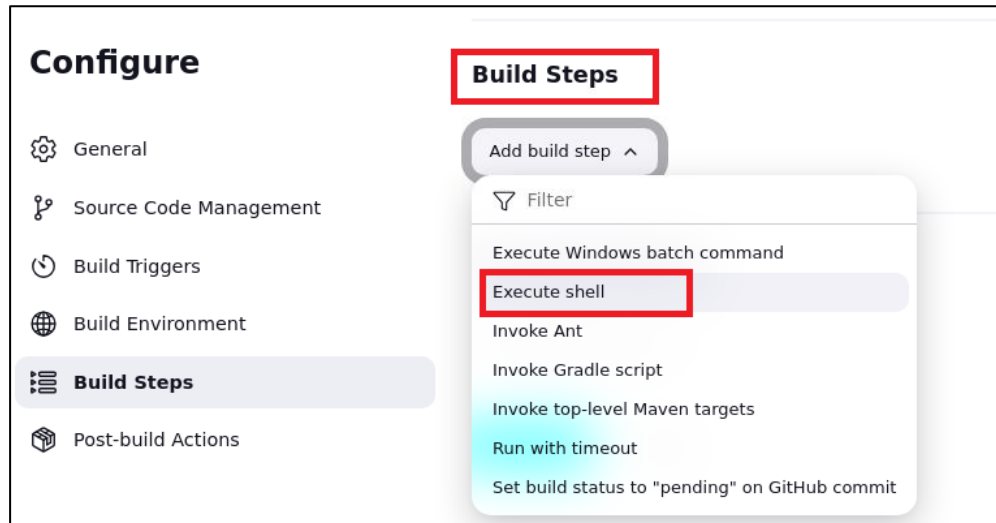
1.9 Enter the **Name** of the parameter as **my_param** and the **Default Value** as **hi**



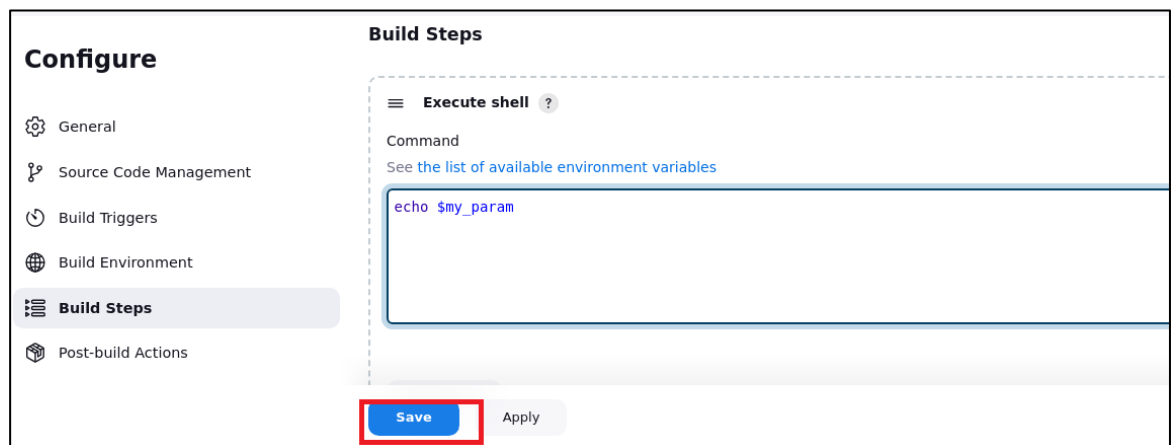
1.10 Click on **Build Triggers**, select **Trigger builds remotely**, and type **Sam** as token value



1.11 Scroll down to the **Build steps**, click on **Add build step**, and select **Execute Shell** from the drop down

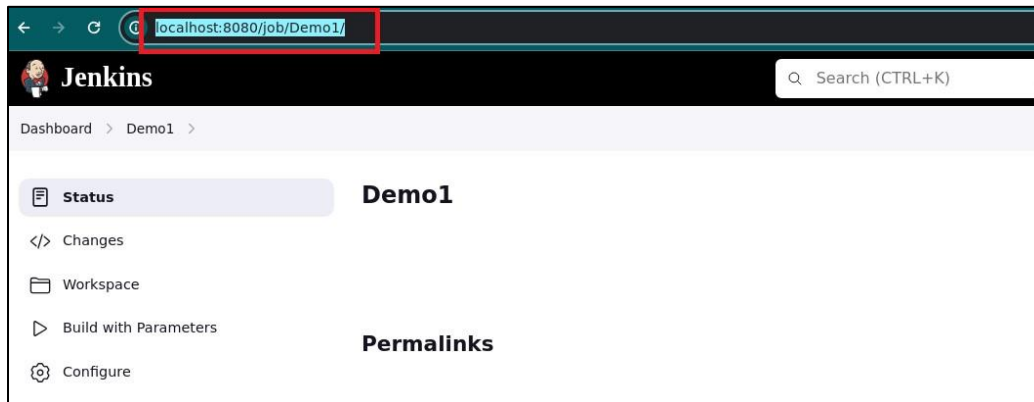


1.12 In the text input area, enter the following text, and then click on **Save**:
`echo $my_param`



Step 2: Trigger a parameterized build remotely

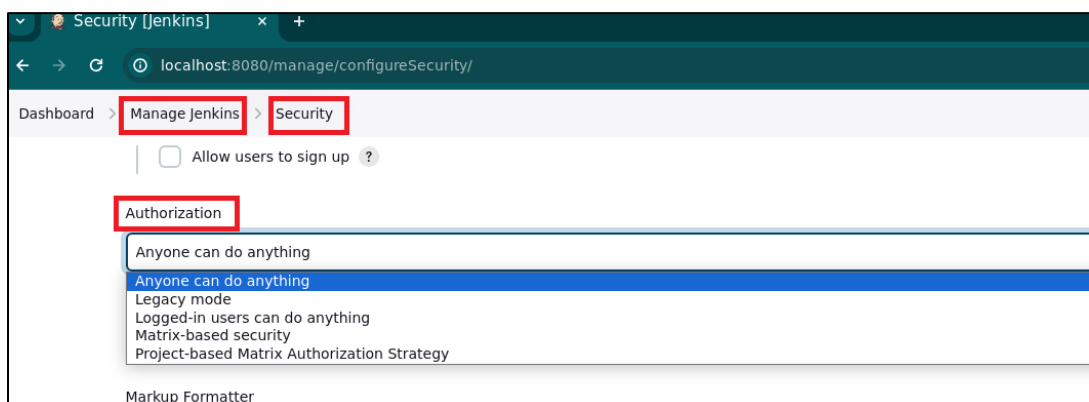
2.1 Navigate to the project **Demo1** and copy the Job URL



2.2 Open the terminal and execute the below command:

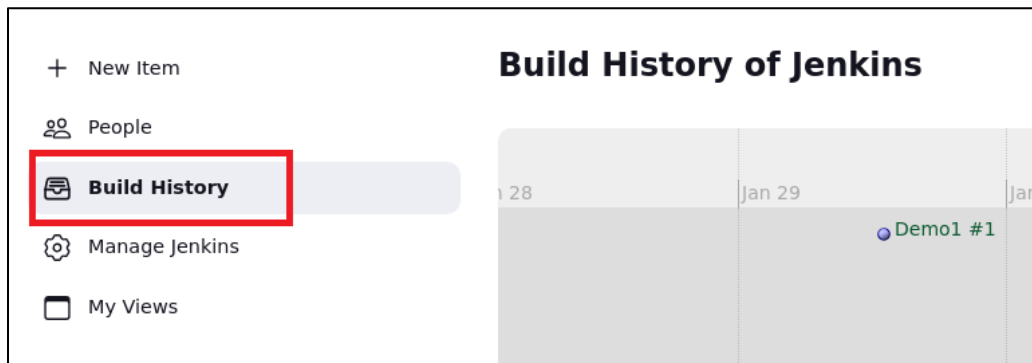
curl -X GET <YourJenkinsJobUrl>/buildWithParameters?token=Sam

```
labsuser@ip-172-31-41-222:~$ curl -X GET http://localhost:8080/job/Demo1/buildWithParameters?token=Sam
labsuser@ip-172-31-41-222:~$
```

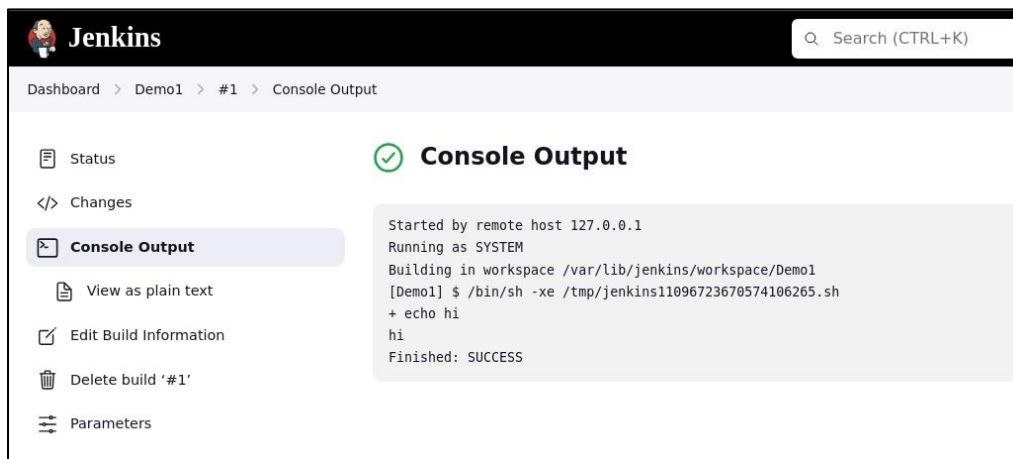


Note: In case you get an authentication error, navigate to Manage Jenkins, click on Security and look for Authorization, select Anyone can do anything, and apply. It should be configured as shown above.

2.3 Navigate back to Jenkins Dashboard and click on the **Build History** option to view the build results



2.4 Click on the **Console Output** to view the build logs



The parameter value is being displayed in the console output.

By following these steps, you have successfully triggered Jenkins builds with parameters remotely.