

## Triggering Jenkins Remote Job from Slack

### Objective:

To configure Slack to trigger a remote Jenkins job. This allows for seamless integration between your team communication tool (Slack) and your CI/CD pipeline (Jenkins).

### Prerequisites:

**Jenkins Server:** Ensure Jenkins is installed and accessible.

**Slack Workspace:** A Slack workspace where you can create channels and install apps.

**Slack App:** Create a Slack app to interact with Jenkins.

**Jenkins Slack Plugin:** Install the Slack Notification Plugin on Jenkins.

### Steps:

#### Step 1: Create Slack App and Incoming Webhook

Navigate to Slack API Console and create a new app.

Under 'Incoming Webhooks', enable them and create a new webhook that posts to a specific channel.

Save the Webhook URL; you'll use this to trigger Jenkins jobs.

#### Step 2: Configure Jenkins Job for Remote Access

Open the Jenkins job you want to trigger remotely.

Navigate to 'Configure' > 'Build Triggers'.

Check 'Trigger builds remotely (e.g., from scripts)'.

Enter an authentication token.

Save changes.

#### Step 3: Install and Configure Slack Notification Plugin in Jenkins

Go to 'Manage Jenkins' > 'Manage Plugins'.

Search for 'Slack Notification Plugin' and install it.

Navigate to 'Manage Jenkins' > 'Configure System'.

In the Slack section, add your Slack workspace and the webhook URL.

#### Step 4: Create a Slack Slash Command

Go back to your Slack app settings.

Navigate to 'Slash Commands' and create a new command.

Set the 'Request URL' to trigger the Jenkins job:

`http://JENKINS_URL/job/JOB_NAME/build?token=YOUR_AUTH_TOKEN`

Replace JENKINS\_URL, JOB\_NAME, and YOUR\_AUTH\_TOKEN with the actual values.

#### Step 5: Test the Setup

Go to your Slack channel.

Type the slash command you configured.

The Jenkins job should be triggered.