Slack - Jenkins Integration:

When we are in a jenkins pipeline, we might need manual approval in some stages. As we are using slack, so we are going to use Slack API (python) to send notification.

Steps:

Let's say you have two jobs.

- 1. First job will do provisioning of resources (azure webapp) and sends notification to slack channel
- 2. Second job will do app build and deployment to azure webapp. To do so, It waits for the approver to trigger the build from slack channel by using a "slash command" explained below.

First Job:

Below is the python piece of code for slack channel which used to send notification post completion of First job.

> Run "pip3 install slackclient" to install the slackclient module before running the below code.

```
from slackclient import SlackClient
import os
slack_token = os.environ["SLACK_API_TOKEN"]
sc = SlackClient(slack token)
attach_json = [
      "text": "Please check the output and provide appropriate response",
      "fallback": "You are unable to choose a game",
      "callback id" "wopr game",
      "color" "#CC0000",
      "attachment_type": "default",
      "actions": [
        {
          "name": "Jenkinsbuild",
          "type" "button"
          "text" "Yes".
           "style": "primary",
           "value" "Yes"
           "confirm": {
             "title" "Note: Command is channel specific",
             "text": "Provide /build command in messages tab to trigger the build for Catalog App",
             "ok_text": "Okay"
```

```
}
       },
{
          "name": "Jenkinsbuild",
          "type": "button",
          "text": "No",
          "style" "danger",
          "value": "No"
       }
     ]
 }
out = sc.api_call(
"chat.postMessage",
channel="CB60D2X8D",
text=":jenkins: - JENKINS",
attachments=attach_json
print (out)
Note: SLACK_API_TOKEN is an ENV variable.
Output:
          A JENKINS
            Please check the output and provide appropriate response
```

Build Notifications are channel specific

No

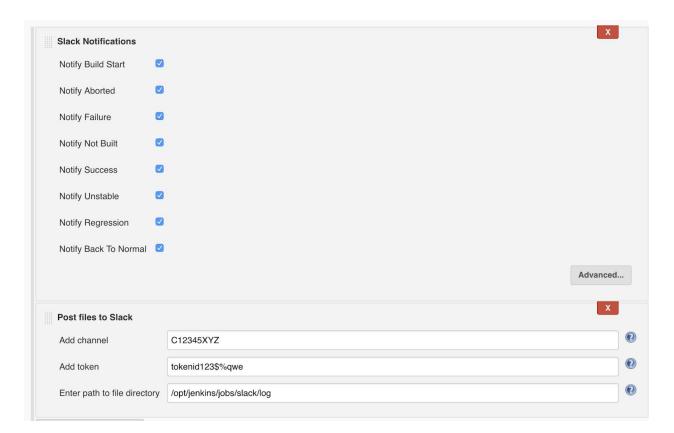
Provide /build command in messages tab to trigger the build for Catalog App



X

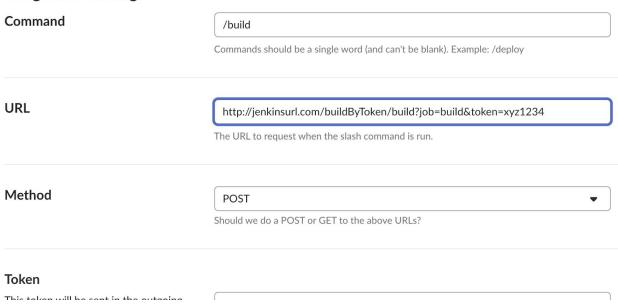
Second Job:

- > Install Build Token Root Plugin in jenkins
- > Install the slack plugins and configure the respective job to get the output and job build status to your channel.
 - a. Slack+File+Uploader+Plugin and
 - b. Slack+Plugin for Notification



- > Use the below url to trigger job remotely http://jenkinsurl.com/buildByToken/build?job=jobname&token=tokenID
- > In slack (https://app.slack.com/), Go to Slash commands App, then Slack integration page set like screenshot below

Integration Settings

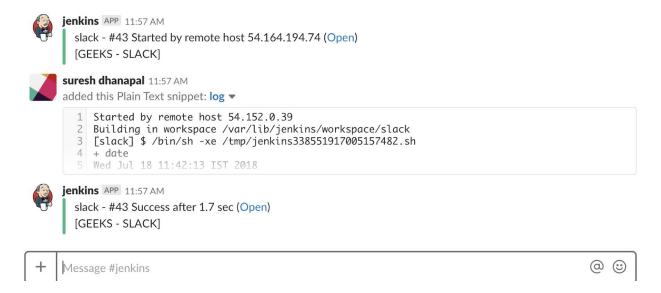


> Now you can use command /build in slack to start this jenkins job



Note: We can't pass arguments through message tab.

Jenkins Output:



Note:

To make this entire setup to work we need to make jenkins public like using Load balancer or proxy.