Explore various methods of Jenkins build failure notifications :

Jenkins has many plugins in Build Management(Build triggers, Build wrappers, Build notifiers, Deployment plugins, Build parameters, Clean-up actions, Build tools, Build reports, Artifact uploaders). Jenkins has many plugins that help you send notifications to various chats, mail groups, etc. Here are a few Build notifiers and Build reports plugins . .

Global Slack Notifier – Global slack notifier plugin

Slack Upload – A post-build uploader that uploades files to slack generated during build process

Office 365 Connector – This plugin sends Job notifications to JenkinsCl Office 365 connector

Slack Notification – Build status publisher that notifies channels on a slack team

Gerrit Verify Status Reporter – Posts test reports to Gerrit

Email Extension Template

Mail Watcher – This plugin notifies configured email recipients on various events

Mailer – Allows you to configure email notifications for build results

Mail Watcher – Notifies configured email recipients on various events

Zulip – A build status notifier that sends notifications to Zulip

Google Calendar

Twitter

Skype notifier

Growl – Sends growl notifications

Notification – Sends notification about job phases and status.

Extreme Notification – Provides endpoints to notify about most events that happens in the server, including the builds and SCM

Campfire – Build status notifier that sends notifications to Campfire rooms

HipChat – Build status publisher that notifies channels on a HipChat sever

SMS Notification – Allows user to notify the team via sms for any unstable build, using Holio API

HTML Publisher – Publishes html reports

Chatter Notifier – Post build results to chatter

and so on.

we'll see how to set up some common notifications plugins on jenkins

we'll set up **Global Slack Notifications Plugin**:

➢ **Global Configuration**

1. Configure the "Jenkins", "Manage Jenkins", "Manage plugins". Install global slack notifier.

2. Configure the "Jenkins", "Manage Jenkins", "Configure System", "Global Slack Notifier Settings".

3. Get a slack account and go to add apps to the channel to which you want jenkins to post the notifications. Install JenkinsCI app in slack. Generate the token for the channel

4. Add the base url, team subdomain, Integration token, channel name on jenkins global slack notifier settings.

5. Verify a test message is displayed in the Slack channel.
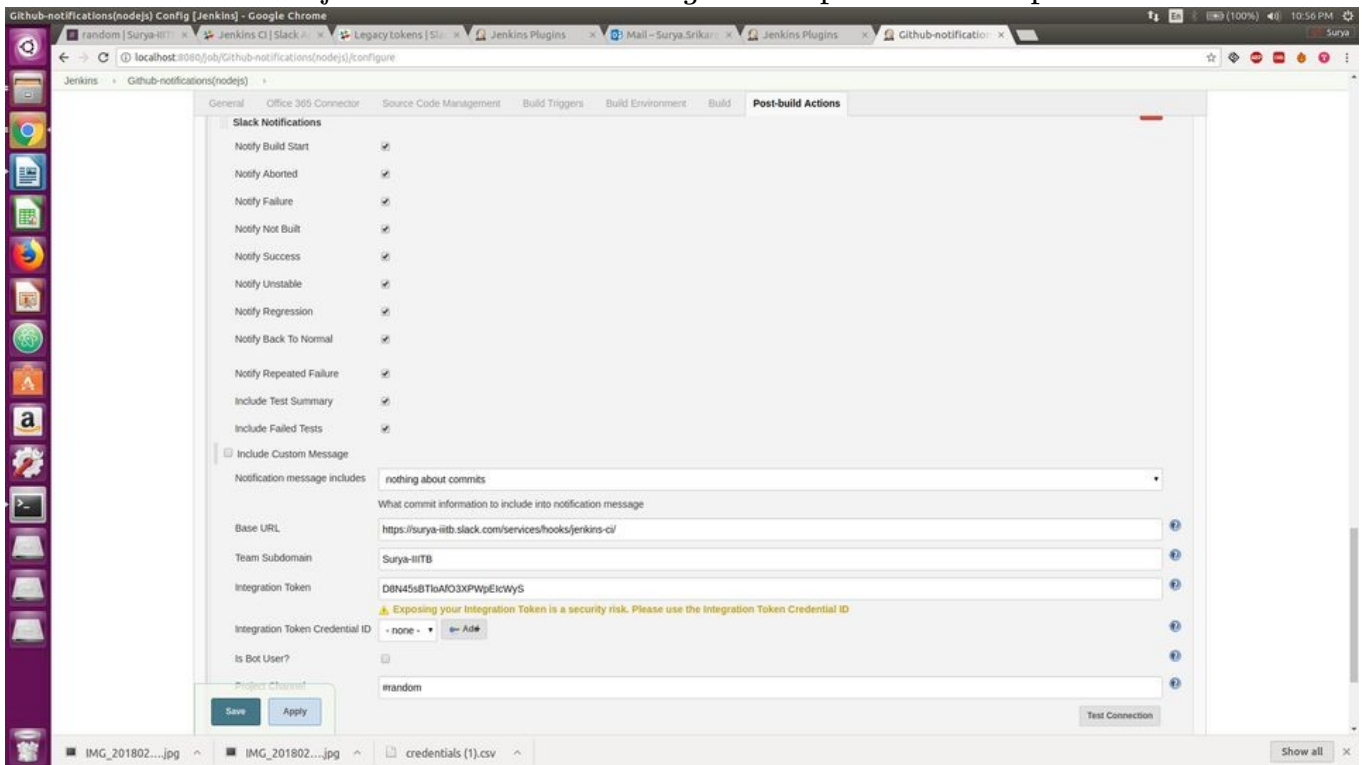
➢ **Project Configuration**

1. Configure the "Jenkins", <project>, "Configure". Add Post-build actions slack notifications(If you forget this section, the test buttons will show the channel test messages, but the build execution will not post anything to the channel).

2. Select the check boxes for the notifications desired when the build task is executed.

3. If the project has a different channel from the default perform the following steps. Click on the "Advanced..." button. Enter the "Team Domain", "Integration Token" (probably the same as the Global token), and "Project Channel" name in the indicated text fields. Do not rely on the defaults to populate any of the fields. Enter the information even if it is redundant with the Global configuration.

4. Click on the "Test Connection" button.

5. Verify a test message to the approriate slack channel.

6. Click on the "save" button to retain these changes.

➢   *Jenkins Pipeline Support*
  slackSend channel: '#jenkins-latest', color: 'good', message: 'Slack Message', teamDomain: 'beedemo', token: 'token'.

➢   Test the Configuration: Once the project has been configured run a test build and confirm the slack messages are posted as expected.

You can also post files on slack using the **Slack Upload Plugin**. Jenkins is a wonderful continuous integration system which automates your build process for you. Frequently artifacts and files are generated during the build process which one may want to share with their team. This plugin was born out of that necessity and streamlines the process of posting such files to Slack, the popular chat messenger for companies and teams. With bare minimum configuration, you get a slack uploader!
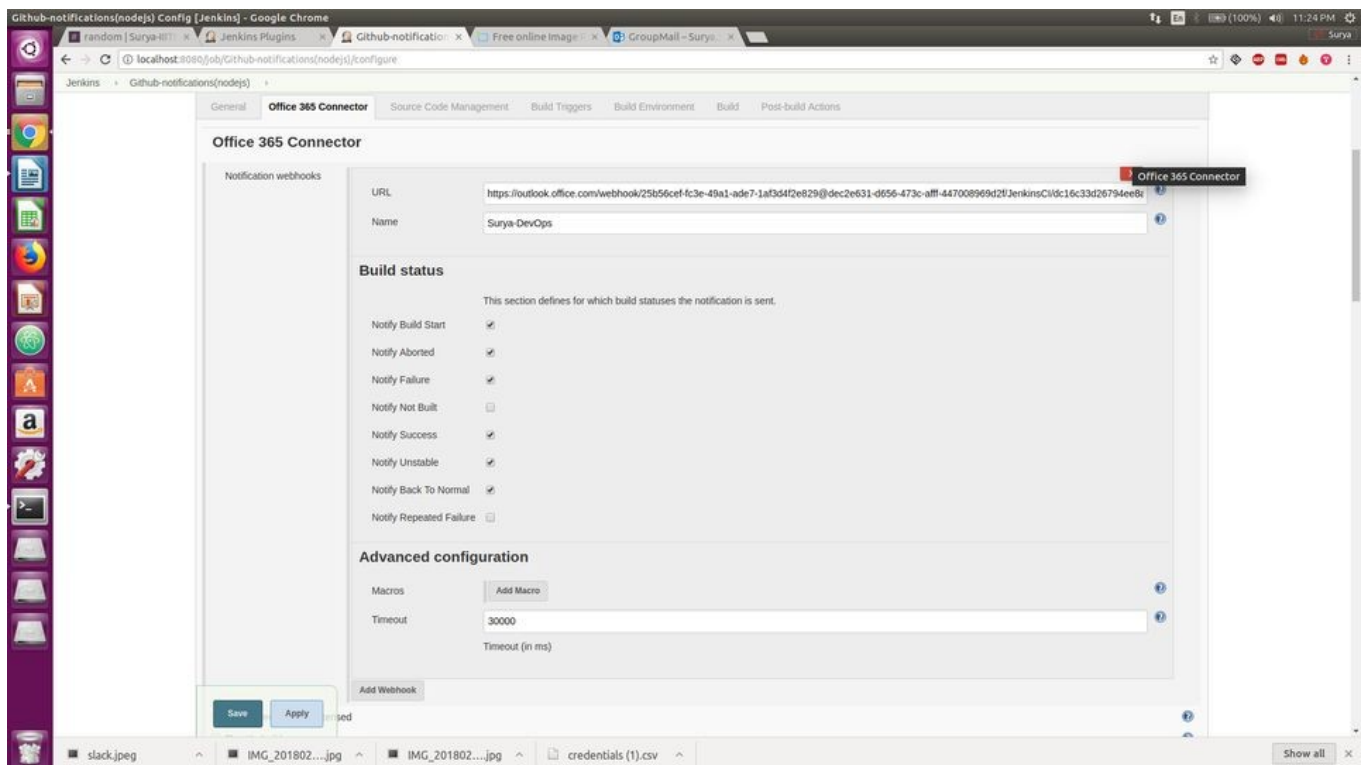
➢   Setup:
1. Create a slack account and obtain your token.
2. Install the plugin on Jenkins server.
3. Configure your jenkins job as a Post-Build action.

4. Enter the channel and the file path of the files you want to upload.

5. Start a build and watch as the magic happens.

Now we'll set up **Office 365 Connector Plugin**. First we need to have an office 365 email id. Now select the group which you want jenkins to send mail on. Manage apps for the group. Install Jenkins connector for this group. Press 'Add'. Enter a name for the jenkins connection. Save the url generated. Now go to jenkins. Manage plugins and install Office 365 connector plugin. There is no global configuration required.

➢ **Project Configuration**

1. Go to the office 365 connector section and enter url generated on office 365.

2. Enter the name of the jenkins connection channel.

3. Click advanced., check the boxes of which build statuses notification is needed.

4. Click Save. Start a build now watch as the magic happens.

Now whenever a buils is started for the project. It notifies you on slack , uploads the ouput on slack, sends an email on outlook office 365.

-- The End --

By Surya Srikar Peruri(IMT2015042)