Lab: Continuous **Integration with GitHub using GitHub Plugin and Webhook**

Pre-Requisites: -

1. *Git Repository with the code to be deployed should be available. The git repo to be used in training: https://github.com/LovesCloud/jenkinsgithubintegrationdemo. Please* fork the repo in your GitHub account.

Steps:

1. Open Jenkins on browser
2. Configure GitHub webhook, follow the steps mentioned in **Configure GitHub Webhook for Jenkins**
3. Click on **New Item** on Jenkins Dashboard
4. Enter **Name** such as <yourname>_gitwebhookintegration
5. Select **Freestyle project**
6. Click **OK**
7. Under Source Code Management section, Select **Git** radio button
   a. Enter Repository URL - <Your forked repo>
   (Note: Please use your own repo, forked as part of pre-requisite of this lab. Take its
   URL from the address bar of browser where your GitHub Repo is opened.)

8. Under Build Triggers section, Select **GitHub hook trigger for GITScm polling** checkbox
9. Click **Save**
10. On GitHub end, if you are the owner of the git repo, edit a file and commit the changes.
11. Open the Jenkins and observe that the build is triggered automatically as soon as you committed the file in GitHub in your repo.
12. Click on the latest triggered build number
13. View the Console Output

The complete log of the steps involved in successful building of job are displayed.

Configure GitHub Webhook for Jenkins
1. Open GitHub
2. Navigate to Git Repo;
3. Navigate to Settings of repository
4. Click Webhook
5. Click Add Webhook
6. Enter Payload URL-http://<Public IP of Jenkins Server>:8080/github-webhook/
7. Click Save Webhook