

Jenkins, Git and GitHub (Continued)

Jenkins Continued:

What is Jenkins?

Jenkins is a continuous integration tool which:

- 1) keeps on polling the code in GitHub,
- 2) immediately builds/runs the latest code or schedule the builds/runs every 1 hour etc.
- 3) And mails all the team members if the build fails.

Do you have to install Jenkins at your workplace?

No need to install Jenkins on your personal machines. At your workplace, you will be directly provided with the Jenkins URL (say <http://jenkins.companyname.com>) and your username and password to log in to Jenkins.

Email Notifications:

- Allow your gmail to access less secured apps by enabling the option at the below url
<https://www.google.com/settings/security/lesssecureapps>
- Manage Jenkins > Configure System > Email Notification Settings

SMTP server : smtp.gmail.com

Default user e-mail suffix : @gmail.com

Use SMTP Authentication: select this checkbox

User Name: arun.motoori@gmail.com

Password: your gmail password

USE SSL: select this check-box

SMTP PORT: 465

Charset: UTF-8

Test Configuration: Select this checkbox and provide any gmail address and test

- Configure Project for Email settings (Project > Configure > Build Settings)
Provide email ids as arun.motoori@gmail.com, arrampriyanka2009@gmail.com
Observe that when the build fails, Jenkins will automatically send the emails to the provided email addresses.
Click on the link provided in email to find out the root cause of failure.
 - Schedule the build to be executed every minute (* * * * *)
Best Practices:
 - Build will be generally scheduled at the night say 11 PM or 1 AM etc.
 - Execute the Jenkins builds multiple times say 10 to 15 times to check whether the build is constantly stable or not.
 - Schedule the build to be executed for every code change in GitHub
 - Select 'Poll SCM' option and type * * * * * in the Schedule text area field (This will poll the code in GitHub for every minute to check any changes to the code)
 - If any changes are made, the Jenkins will build/run the code
 - In real time, we choose to schedule the build periodically and also select to build when something changes in github
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