# Assignment 2.1 - Jenkins

## Steps to Install Blue Ocean

- Go to manage jenkins ,the button is present to the left on jenkins dashboard.
- Then click on manage plugins.
- Click on the available tab and search for blue ocean.
- Select the Blue Ocean plugin. Click on install without restart. It will install this plugin and it is enough as it installs all the required plugins.
- After restarting the Blue ocean will activate and a button will appear on the left of jenkins dashboard.
- Blue Ocean UI will start if u click that button.

## Building a private GitHub Repository In jenkins

- Click on new item on the left of jenkins dashboard
- Create a free style project.
- While configuring the project,under Source Code Management,select GIT.
- Paste the url of repositry in repositry url and in the credintials,click on add button and select jenkins.
- Under username and password , fill ur git hub credentials.

- Select this credentials option in the drop down menu of credentials.
- Now the private repositry gets added to the project and can be used.

# Git SCM Poll

- In the configaration of a project , under Build Triggers select GitHub hook trigger for GITScm polling and click save.
- Now we have selected the poll but Git hub repo must send a request to jenkins for polling

## Adding Jenkins service to GitHub

- In git hub repo, go to settings.
- Go to Integrations & services.
- Click on Add service and choose Jenkins (GitHub plugin) from dropdown menu.
- Add http://<public-ip or URL>/github-webhook under Jenkins hook url.
- Select the Active checkbox and click on add service button.
- Now github will send a request to jenkins.

# Steps to configure email notifications

For jenkins to send the mail, first we need to add the details of smtp server and the mail account.

Steps to add the details:
- Go to the Jenkins home page and click the 'Manage Jenkins' menu option. Then, select the 'Configure System' option.

- Enter the SMTP server name under 'Email Notification'. Click the 'Advanced' button and then click the checkbox next to the 'Use SMTP Authentication' option. Now, set the following fields.

  - **SMTP server name** : smtp.gmail.com
  - **User name**: user_email_id@gmail.com
  - **Password**: 123456
  - **Use SSL** : Checked
  - **SMTP Port**: 465

- Check the email notification functionality by clicking the checkbox next to the 'Test configuration by sending Test e-mail recipient' option. Enter a valid email id and click the 'Test configuration' button to check whether the email id is valid or not.

*if you are using a gmail account you may need to change the safety setting of your account to allow less secure appps to acess gmail . Generally an error comes if you dont do this.

# Adding the post build action

- Go to your project from the jenkins dashboard
- Click on Configure which is present on the left side on the page.
- In configuration go to post build actions.
- Click on add build step and a drop down menu comes.
- Select Editable Email Notification inthat drop down menu.
- Jenkins generally provides a default settings for project Recipient list,Project reply to list ,etc.These can be changed as reqired.
- We can use the advanced setting to decide when to send the mail.