

## **Assignment-2**

### **Assignment-2\_1:**

#### **Blue Ocean Installation:**

- First, go to Manage Jenkins -> Manage Plugins.
- Now, search for 'blue ocean' on search tab.
- Then, select blue ocean plugin (BlueOcean Aggregator), install this with the required dependencies.
- Now, restart Jenkins and then you will have an option 'Open BlueOcean', click on it to start and use BlueOcean.

#### **Private GitHub Repository as a FreeStyle Project:**

- Now, create a private repository.
- And then start a new free-Style project.
- Under the 'Source Code Management', choose 'Git'.
- Now, add the private repo's URL to the 'Repository URL' text box.
- Since, GitHub private repository is private, you have to provide access to Jenkins.
- Click on 'Add Credentials', now choose Jenkins from dropdown menu.
- Finally, click on the added credentials next to the 'Credentials' field.
- Now Jenkins can access your private repository like any other public repositories.

#### **Git SCM Poll:**

- Configuring Build Triggers:
  - o Go to 'Configure' and scroll down to Build Triggers.
  - o Under 'Build Triggers' select 'GitHub hook trigger for GITScm polling'.
- Adding Jenkins service to GitHub:
  - o Go to the repo for which we use GitSCM polling.

- Under 'Integration and Services' in settings, select add service and search for GitHub plugin.
- Now, give your local URL at Jenkins Hook URL given by ngrok(<hook given by ngrok>/github-webhook).
- Lastly, select 'Active' and click on 'Add Service'.

## **Post Build Actions and Extended Email Notification:**

### **Configuring Email:**

- Go to 'Manage Jenkins' -> 'Configure Systems' and scroll down to the 'Extended E-mail Notification' section.
- Add the SMTP server details.
- Click on the 'Advanced' button and provide credentials
- Choose 'Use SMTP Authentication' and then enter the account username and password.
- And finally apply and save the changes.

### **Post Build Action:**

- Go to the project, scroll down to 'Post Build Actions'.
- Select 'email notifications' and provide the recipient's mail id.
- Click on 'Add post-build action' and choose 'Email Notification'.
- In the linked GitHub repo when the build is successful, it will maintain all the files.