

Assignment 2_1

JENKINS

Blue Ocean:

Blue Ocean is a new User Interface (UI) and User Experience (UX) for **Jenkins**, designed to make **Jenkins** UI

more efficient by reducing clutter and increasing the clarity.

Following are the steps to install Blue ocean:

- Go to Manage Jenkins→ Manage Plug-ins.
- Select the “Available” tab and add “Blue Ocean” in the filter box to search for the plugin.
- Select the Blue Ocean (BlueOcean Aggregator) plug-in. Install it and restart Jenkins.
- Choose Blue Ocean option from the left menu to use Blue Ocean UI.

Private GitHub Repository:

- Create a new freestyle project.
- Select Git in Source Code Management.
- Add the private repository's URL in the URL text box.
- Add the credentials of the repository.
- Chose Jenkins as the credential provider.
- Chose the preferred authentication method and provide the credentials.
- I chose Username with Password method.
- Chose the newly created credentials in the drop down box.

Git SCM Poll:

- Under the Build Triggers Section, select “GitHub hook trigger for GITScm polling” option.
- Complete other build options as per the requirement.
- Now, you need to set up your GitHub repository, so that it makes requests to Jenkins webhook
- and the polling logic can be completed.
- Go to the settings of your GitHub repository.
- Choose “Integration and Services” option.
- Click on Add Service and select Jenkins (GitHub plug-in) from the drop down menu.
- Now, you will be asked to enter “Jenkins Hook URL”. This is the public URL of Jenkins server which you are running.
- To get the public URL, install ngrok and run the command `./ngrok http 8080`, this will provide a public ip address. Copy paste it into the Jenkins Hook URL text box.
- Activate the service by ticking the Active check-box and click on Add Service button.

Post build actions:

Notifications will be sent after every build action as extended email notification is used.

Configuring email:

We need to first provide the SMTP credentials, so that Jenkins can send mails

- Go to the Extended E-mail Notification section in Manage Jenkins > Configure Systems .
- Add the SMTP server details.
- Click on the Advanced button and select Use SMTP Authentication.
- Enter the account username and password.
- Select Use SSL and specify the SMTP port
- Select 'Allow sending to unregistered users' to send mail to non-Jenkins users.
- Go to Post-build Actions section in the Configuration page of project.
- Click on Add post-build action.
- Choose Email Notification and now the post build action is complete.