

Assignment 2_1

Blue Ocean Set up

- Search for blue ocean in the Available tab in Manage Plugins and select it.
- Blue Ocean will be activated on restarting Jenkins.

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.
- Jenkins can now access your private repository

Git SCM Poll

Set build triggers to GitHub hook trigger for GITScm polling in the configuration page of the project.

Adding Jenkins webhook to GitHub

- Go to Settings in the Github Repository.
- Choose Webhooks
- Add `http://<public-ip>/github-webhook` under Jenkins hook url.

Get Public IP (Using ngrok)

- Get the Public IP of your localhost:8080 using ngrok.
- Download ngrok as a npm package.
- Type `ngrok http 8080` (8080 here is the Jenkins port) and then we get a public IP of the form `http://<public-ip>.ngrok.io`.

Post Build Actions

I used the Extended Email Notification. The notifications will be sent after every build action.

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.