

- **Blue Ocean** : Blue Ocean rethinks the user experience of Jenkins. Designed from the ground up for Jenkins pipeline , but still compatible with freestyle jobs, Blue Ocean reduces clutter and increases clarity for every member of the team.
 - **Installing :**
 - Go to Manage Jenkins .
 - Then go to Manage Plug-ins.
 - Select the Available tab and add “Blue Ocean” in the filter box to search for the plugin.
 - Select the Blue Ocean.
 - Install and restart the Jenkins.
 - Open Blue Ocean UI by clicking Blue Ocean option.
- **Creating Private GitHub Repository:**
 - create a new freestyle project.
 - Under the Source Code Management , choose Git option
 - Create a private repository.
 - Paste the private repository URL in the given field.
 - Since the repository is private, credentials for Jenkins needs to be added.
 - Click on Add button, choose Jenkins as the Credential provider.
 - Enter your GitHub user-name and password. Add the credentials .
 - Then choose the added credentials in the dropdown menu that appears next to Credentials label.
 - Now Jenkins can access the private Repository.
- **Configuring the GitSCM Poll Build Trigger :**
 - choose GitHub hook trigger for GITScm polling option in Build Trigger section.
 - Now, you need to set up your GitHub repository to make requests to Jenkins webhook and the polling logic can be completed.
 - Now go to GitHub repository and then to Settings.
 - Select Integrations & services option .
 - Choose Add Service and select Jenkins(GitHub plugin).
 - To get the public URL, ngrok needs to be installed .
 - After installation ,run the command `./ngrok http 8080`, this will provide a public ip address.
 - paste it into the Jenkins Hook URL text box.
 - Click on the Active check-box and click on Add Service button to activate the service.
- **Post Built Actions – Email Notification:**
 - **Configuring e-mail id:**
 - In the homepage of Jenkins go to Manage Jenkins.

- Go to Configure system and then goto E-mail Notification
- Add the SMTP server details of the email which you want to use to send e-mails.
- Select the Advanced option
- Select Use SMTP Authentication
- and enter account user-name and password.
- Select Use SSL and provide SSL port number.
- **Adding post build action :**
 - Go to Configuration page of project
 - Click on Add post-build action and choose Email Notification from the dropdown menu.
 - Enter the e-mail id's of the recipients in Recipients field.
 - Apply and Save the changes.