ASSIGNMENT 2

ASSIGNMENT 2_1

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BLUE OCEAN:

Blue Ocean is a project that rethinks the user experience of Jenkins, modelling and presenting the process of software delivery by surfacing information that's important to development teams with as few clicks as possible, while still staying true to the extensibility that is core to Jenkins.

INSTALLING BLUE OCEAN:

➔ Open Jenkins and in the Jenkins Homepage goto:
  1. **Manage Jenkins**
  2. then **Manage plugins**
➔ In the Filter text box, search for **Blue Ocean**(Blue Ocean aggregation) then check in Blue Ocean plugin's check box.
➔ Then click **Install without restart** option for Blue Ocean to get installed into Jenkins.
➔ You can find the Blue Ocean option in the Jenkins Homepage after restart.

USING GITHUB PRIVATE REPOSITORY AS FREE STYLE PROJECT:

➔ First create a private repository in Github. If you are doing it for the first time and if you are a student ,you can use the student pack to make a private repository for free.
➔ In the Jenkins Homepage select **New Item** and then choose it as a _free style project_ and click **OK.**
➔ In the **Source code management** choose **GIT** option.Copy paste the URL of the private repository into the repository's URL's box in Jenkins.
➔ As the repository is private you will get an error. So click on **Add** button below the credential box , then select Jenkins from the dropdown menu and fill your Github username and password into the respective username and passwords fields.
➔ Select the newly added credentials from the dropdown menu.Then the error will be gone.

USING GIT SCM Poll:

➜ Install **ngrok** into your computer from this link
  https://ngrok.com/download.
➜ goto configurations of the project in **Build Triggers** choose **GitHub hook trigger** for **GITScm polling** option and save it.
➜ Run the **ngrok** and copy the F**orwarding for localhost: 8080** URL into the **Jenkins hook url.**
➜ Tick the **Active** checkbox if it's not ticked and click on **Add Service** button .
➜ Now GitHub should make a request to the Jenkins webhook when ever commit is made.

POST BUILD ACTIONS – EMAIL:

By using the email notification option we will be getting an email whenever our project build fails.

➜ **Configuring email:**
  • In the Jenkins Homepage select **Manage Jenkins.**
  • Selcect **Configure System.**
  • Select **Email Notification**.
  • Provide the smtp server details based on the account to which you want to recieve your mails.
  • Select the **Advanced option** which is below Default user e-mail suffix.
  • Select Use **SMTP Authentication**.
  • Provide username and password for your account.
  • Select **Use SSL** and provide the **SMTP port(**which is mostly 465**).**
  • Enter your mail id in **Test e-mail recipient** field.
  • Provide Jenkins to access for email id.
  • Select **Test Configuration**.
  • Finally click on **Apply** and the **Save**.
➜ **Post build action:**
  • goto configuration of the project.
  • click on **Add post-build action** and select **E-mail Notification** option in it.
  • Enter your email Id in Recipients and save.

After this whenever your project Build fails you will get a notification to your email id.