Configuring Jenkins for branch monitoring

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## Bitbucket webhook

In order to inform Jenkins with new commits, Bitbucket hook needs to be configured.

### Bitbucket webhook

* Go to Bitbucket administration 🡪 Find new add-ons, filter for **Bitbucket Server Webhook to Jenkins** then hit install.
* Navigate to your repository and hit the Settings tab.
* In the left-side navigation, click the Hooks link.
* Click the Enabled button
* Enter the URL for your Jenkins instance and the Repository URL that you configured Jenkins to use. You can use the dropdown to get the clone URL for each supported protocol. Afterwards, feel free to change it to match your Jenkins instance.
* Click the Trigger Jenkins button to test your configuration
* If success, Jenkens will be notified with updates.

## Jenkins job configuration

First we need to assure that the Email is configured correctly to be able to send email notifications in case of failed builds as well as going back to normal.

### Email Configuration

As Jenkins admin click on *Manage Jenkins, configure system.* Update the *System Admin e-mail address* to be [**Jenkins@lhasalimited.org**](mailto:Jenkins@lhasalimited.org)(this what I guessed that it is used for email notifications).

Scroll down in the *E-mail Notification* section and update the SMTP server to be **LUKPC195.lhasalimited.org.**

You can select to test the configuration by sending test e-mail by checking the tick box beneath.

### Jenkins project job(s)

To monitor project build status we need to create two jobs:

1. One dedicated to master
2. One dedicated to builds that satisfy the branch naming convention other than master.

Both are similar in configurations except section of *Branches to build*

Below is the current configuration need to build:

1. Check Discard old builds
2. Strategy: Log Rotation
   1. Days to keep builds:3
   2. Max # of builds to keep:2
3. Source Code Management: Git
   1. Repositories
      1. Repository URL: put the project path as getting through git clone
      2. Credentials: username/password
   2. Branches to build: either \*/master or \*VXRW\* (as an example)
4. Build Triggers
   1. Poll SCM
      1. Schedule: H 3 \* \* \*
5. Build Environment Delete workspace before build starts
6. Build
   1. Invoke top-level Maven targets
      1. Maven Version: default
      2. Goals:

clean

install

* + 1. Advanced > POM: org.lhasalimited.vitic/pom.xml

1. Post-build Actions
   1. Email Notification
      1. Recipients: add each email separated by space.
   2. Editable Email Notification to provide more details about the failed build.
2. Save