How to - Integrate multi branch pipeline in jenkins

How to setup Jenkins Multi branch Pipeline jobs:

Prerequisite

- 1. Jenkins (2.x version)
- 2. Jenkins Multibranch Pipeline is installed.

The Multi branch Pipeline allows you to automatically create a pipeline for each branch on your repository with the help of Jenkinsfile.

Jenkinsfile is stored along with your source code inside a Source Code Management (SCM) eg. GitHub, BitBucket, etc.

The Workflow Multi branch feature (provided by the workflow plugin) provides the following key abilities:

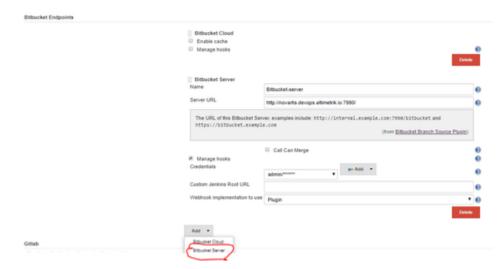
- 1. Automatic Workflow job creation in Jenkins per new branch in the repo.
- 2. Build specific to that child-branch and its unique scm change and build history.

The Multibranch Pipeline project type enables you to implement different Jenkinsfiles for different branches of the same project. In a Multibranch Pipeline project, Jenkins automatically discovers, manages and executes Pipelines for branches which contain a Jenkinsfile in source control.

Creating a Multi branch Pipeline job:

Configure Jenkins:

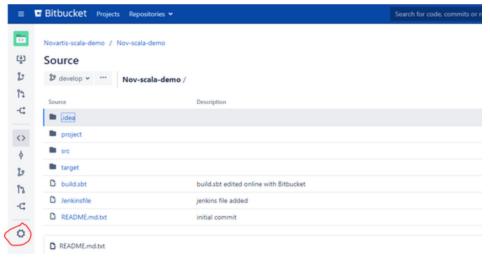
1. Open Manage Jenkins -> Configure System Bitbucket Endpoints



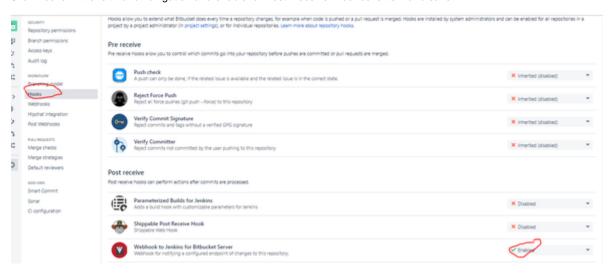
- 2. Add server in Bit bucket endpoint section.
- 3. The add-on Post Webhooks for Bitbucket can be installed to work with any version of Bitbucket Branch Source or Bitbucket Server.

Set up in the repository settings

Go to the repository's settings.



Click Hooks in the left-hand navigation and enable for Post-Receive Webhooks item and save.

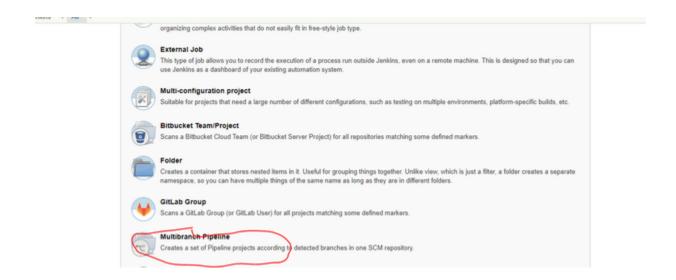


then give Jenkins instance URL.

wennook to Jenkins for Bitbucket Server

lenkins instanc	e(s) Add another Jenkins instance
Jenkins URL	http://novartis.devops.altimetrik.io:808
	URL to the Jenkins instance. Example: https://jenkins.example.com
Jenkins Endpoint	Bitbucket Source Plugin ▼
	Select notification type for Jenkins instance. Git and Bibbucket Source plugins are supported.
General setting	\$
	Skip SSL Certificate Validation When connecting to Jenkins, allow all certificates to be accepted, including self-signed certs Omit the Trigger Build Button Do not display the Trigger Build Button on the pull request overview page
Configuration check	Trigger Jenkins
	Test the configured connection with Jenkins.

Step 1: Create a new item or job, click multi branch pipeline



Step 2: Select branch source option, click on add source and select Bitbucket option.



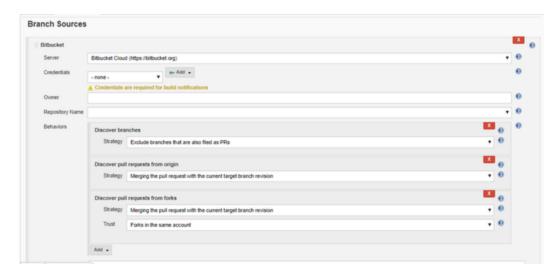
Step 3: Add the details

Server - The server to connect to. The list of servers is configured in the Manage Jenkins » Configure Jenkins » Bitbucket Endpoints screen. The list of servers can include both Bitbucket Cloud as well as Bitbucket Server instances.

Credentials: Credentials used to scan branches

Owner : Specify the name of the Bitbucket Team or Bitbucket User Account.If using Bitbucket server ,Use project key.

Repository name: The repository to scan.



Step 4 :select discover option option and select All branches



Step 4 : Under Build configuration give the jenkinsfile path



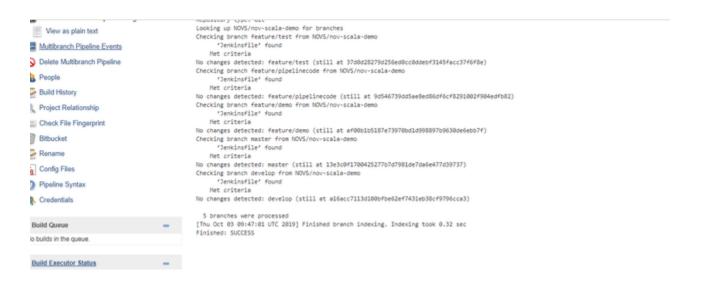
Commit sample jenkinsfile in repository.

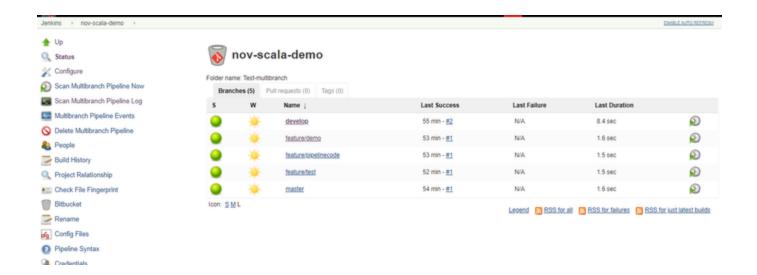
Scan the project for every 1 minute.

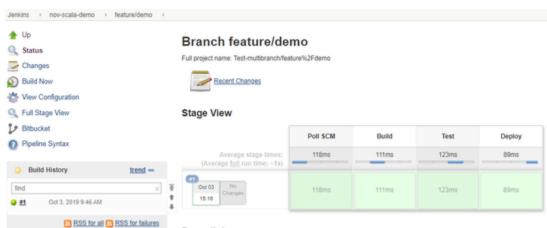


Once done it will scan all branches available in the repository.

Output log.







- Permalinks
 - Last build (#1), 58 min.agg
 Last stable build (#1), 58 min.agg