

CICD EXPERIMENT – 2

Jenkins integration with GitHub

1. Start the Jenkins service using “java -jar Jenkins.war” in command prompt
2. Go to “localhost:8080” in a web browser
3. Click “New Item” option in Jenkins dashboard. Enter the item name and select freestyle project

Enter an item name

Integrate_Git
» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

Activate
Go to Settings

4. Now go to source code management tab and enter the URL of the github repository you want to integrate with and hit save button

General **Source Code Management** Build Triggers Build Environment Build Post-build Actions

Source Code Management

☐ None
☒ Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Activate
Go to Settings

5. Select build now option available and go to console output to check the output.



The screenshot shows the Jenkins web interface. At the top, there's a black header with the Jenkins logo and name. Below it, a breadcrumb trail reads 'Jenkins > imakshat > #3'. On the left sidebar, there are four menu items: 'Back to Project' (with a green arrow icon), 'Status' (with a magnifying glass icon), 'Changes' (with a document icon), and 'Console Output' (with a terminal icon and a blue highlight bar). The main content area is titled 'Console Output' with a blue sphere icon. The text in the console output reads: 'Started by user Akshat Kaushik', 'Obtained JenkinsFile from git https://github.com/akash2237778/CICD_2020.git', 'Running in Durability level: MAX_SURVIVABILITY', '[Pipeline] Start of Pipeline', '[Pipeline] node', and 'Running on Jenkins in /home/imakshat/.jenkins/workspace/imakshat'.

Jenkins

Jenkins > imakshat > #3

- Back to Project
- Status
- Changes
- Console Output**

Console Output

Started by user Akshat Kaushik
Obtained JenkinsFile from git https://github.com/akash2237778/CICD_2020.git
Running in Durability level: MAX_SURVIVABILITY
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /home/imakshat/.jenkins/workspace/imakshat