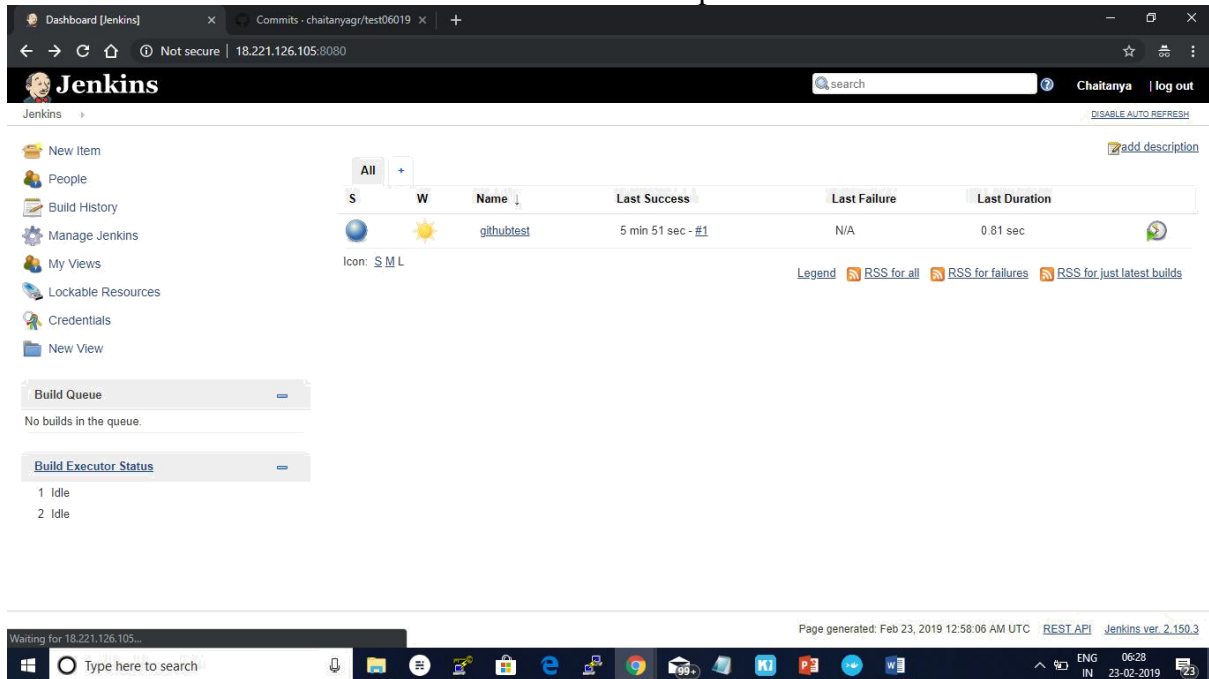


# BUILDING JOBS USING JENKINS

## 1. Access the Jenkins Dashboard in browser – ipaddress:8080

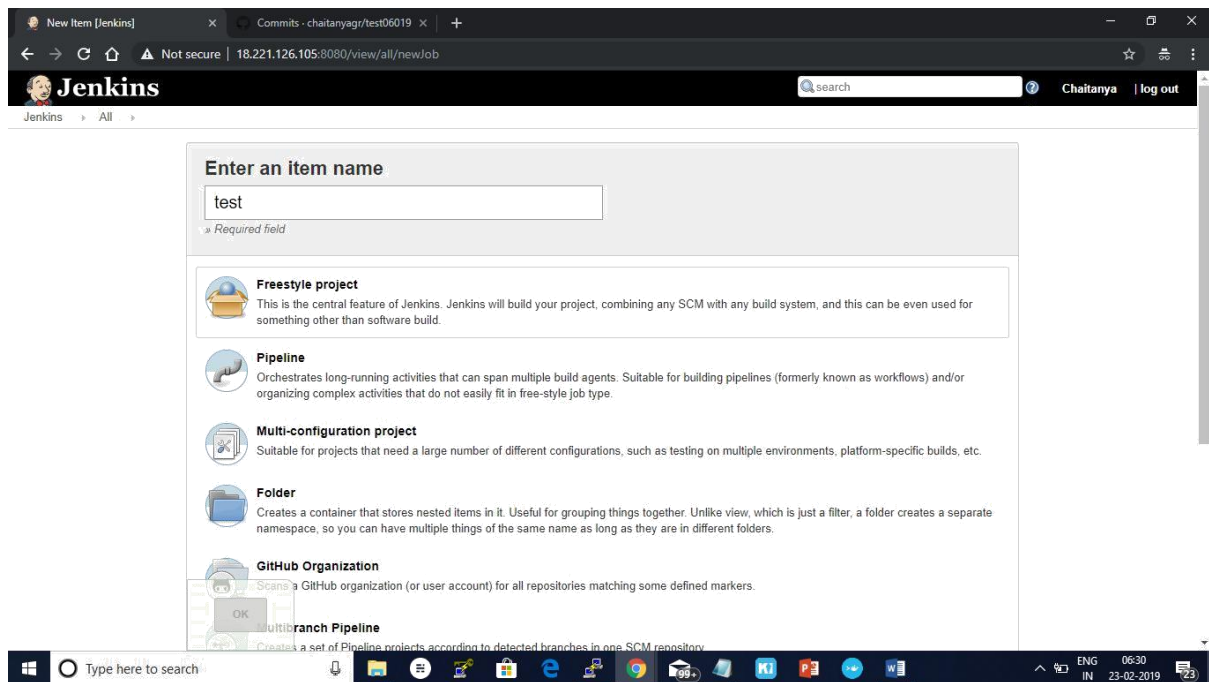


The screenshot shows the Jenkins Dashboard in a web browser. The address bar displays the URL `18.221.126.105:8080`. The Jenkins logo and name are at the top left, with a search bar and user information (Chaitanya) on the top right. A sidebar on the left contains links to various Jenkins features. The main content area shows a table of builds for the `githubtest` job.

S	W	Name	Last Success	Last Failure	Last Duration
		githubtest	5 min 51 sec - #1	N/A	0.81 sec

Below the table, there are links for `Icon: S M L` and a `Legend` section with RSS feeds for all, failures, and latest builds. At the bottom, there are sections for `Build Queue` (showing no builds) and `Build Executor Status` (showing 2 idle executors).

## 2. Click on New Job -> Provide item name -> Choose Freestyle Project and click on OK



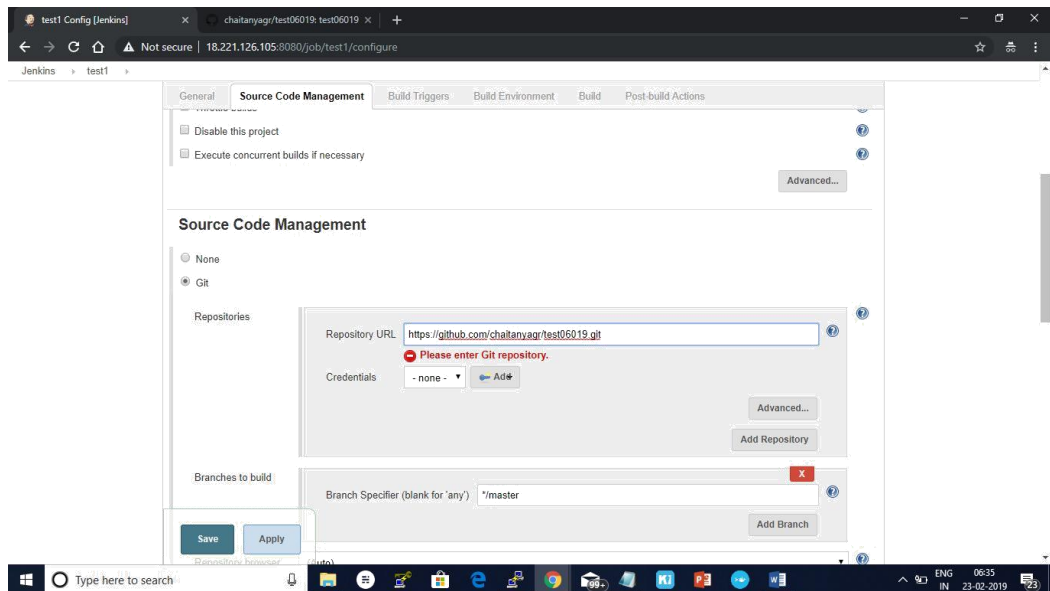
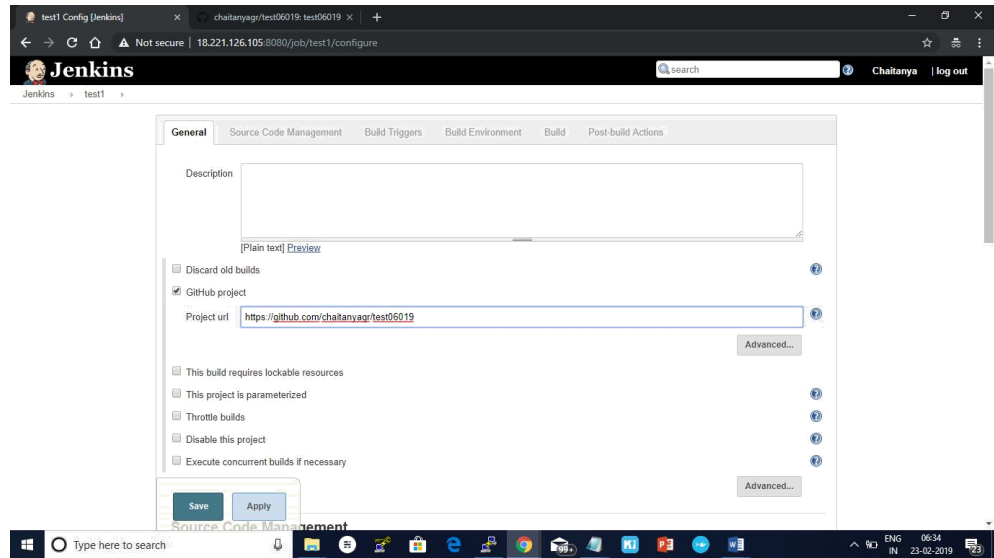
The screenshot shows the 'New Item' configuration page in Jenkins. The 'Enter an item name' field contains the text 'test'. Below this, there are several project type options, each with an icon and a description:

- 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.
- 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**: Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- Folder**: Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- GitHub Organization**: Scans a GitHub organization (or user account) for all repositories matching some defined markers.
- Multibranch Pipeline**: Creates a set of Pipeline projects according to detected branches in one SCM repository.

The 'Freestyle project' option is selected, and the 'OK' button is visible at the bottom left of the configuration area.

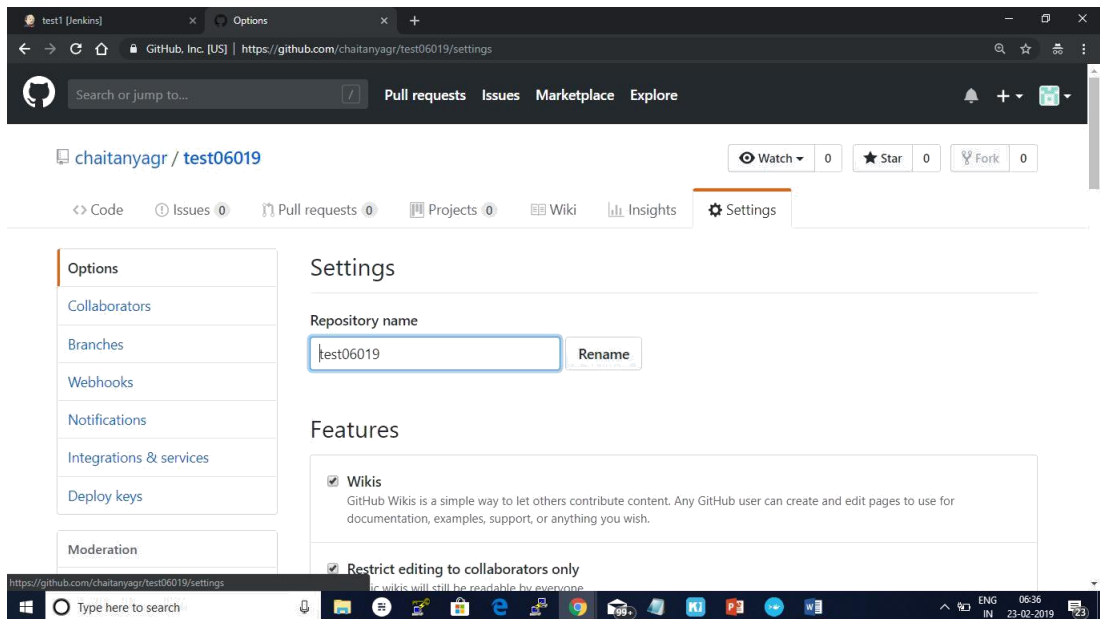
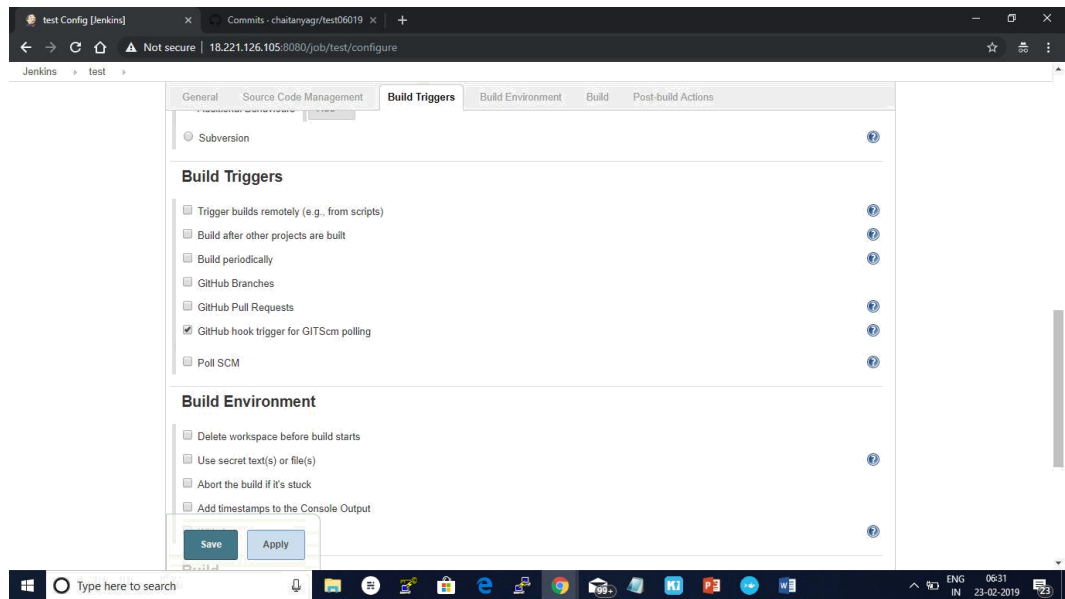
## BUILDING JOBS USING JENKINS

3. Under General Tab , check the option Github Project and enter your Public Repository Github URL.  
And under Source Code Management tab , choose Git and enter your Repository URL



## BUILDING JOBS USING JENKINS

4. Click on **Build Triggers** and choose the option **GitHub Hook Trigger for GITScm polling**, click on **Apply** and **Save**

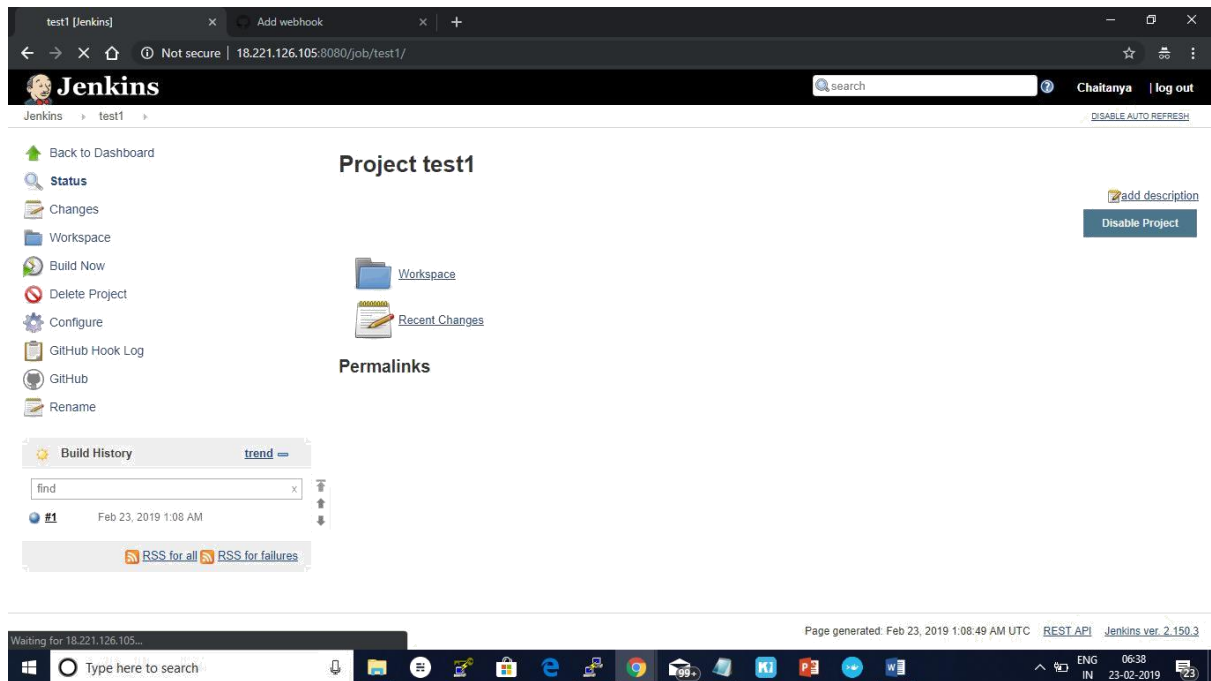


# BUILDING JOBS USING JENKINS

The screenshot shows the GitHub repository settings for 'chaitanyagr / test06019'. The 'Webhooks' tab is selected in the left sidebar. The main content area is titled 'Webhooks' and includes a description: 'Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).' Below this, a single webhook is listed with the URL 'http://18.221.126.105:8080/job/github-webhook/ (push)'. To the right of the URL are 'Edit' and 'Delete' buttons. The left sidebar contains links for 'Options', 'Collaborators', 'Branches', 'Webhooks' (highlighted), 'Notifications', 'Integrations & services', 'Deploy keys', 'Moderation', and 'Interaction limits'. The top navigation bar includes 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The bottom status bar shows the Windows taskbar with various application icons and the system clock indicating 06:36 on 23-02-2019.

The screenshot shows the 'Add webhook' form in the GitHub repository settings for 'test06019'. The 'Webhooks' tab is selected in the left sidebar. The form fields are as follows: 'Payload URL' is 'http://18.221.126.105:8080/job/github-webhook/'; 'Content type' is a dropdown menu with 'application/json' selected; 'Secret' is an empty text field. Below these fields, the question 'Which events would you like to trigger this webhook?' is followed by three radio button options: 'Just the push event.' (selected), 'Send me everything.', and 'Let me select individual events.'. At the bottom, there is a checkbox for 'Active' which is checked, with the text 'We will deliver event details when this hook is triggered.' below it. A green 'Add webhook' button is at the bottom of the form. The left sidebar contains links for 'Webhooks' (highlighted), 'Notifications', 'Integrations & services', 'Deploy keys', 'Moderation', and 'Interaction limits'. The top navigation bar includes 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The bottom status bar shows the Windows taskbar with various application icons and the system clock indicating 06:38 on 23-02-2019.

# BUILDING JOBS USING JENKINS



The screenshot shows the Jenkins web interface for a project named 'test1'. The browser address bar indicates the URL '18.221.126.105:8080/job/test1/'. The Jenkins logo and user 'Chaitanya' are visible in the top right. A sidebar on the left contains navigation links: Back to Dashboard, Status, Changes, Workspace, Build Now, Delete Project, Configure, GitHub Hook Log, GitHub, and Rename. The main content area is titled 'Project test1' and includes links for 'Workspace' and 'Recent Changes'. Below this is a 'Permalinks' section. A 'Build History' table shows a single build (#1) from Feb 23, 2019 1:08 AM. The bottom status bar indicates 'Page generated: Feb 23, 2019 1:08:49 AM UTC' and 'Jenkins ver. 2.150.3'.

test1 [Jenkins] x Add webhook x +

← → × ⌂ ⓘ Not secure | 18.221.126.105:8080/job/test1/

Jenkins search Chaitanya log out

Jenkins > test1 > [DISABLE AUTO REFRESH](#)

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

GitHub Hook Log

GitHub

Rename

Project test1

add description

Disable Project

Workspace

Recent Changes

Permalinks

Build History trend

find x

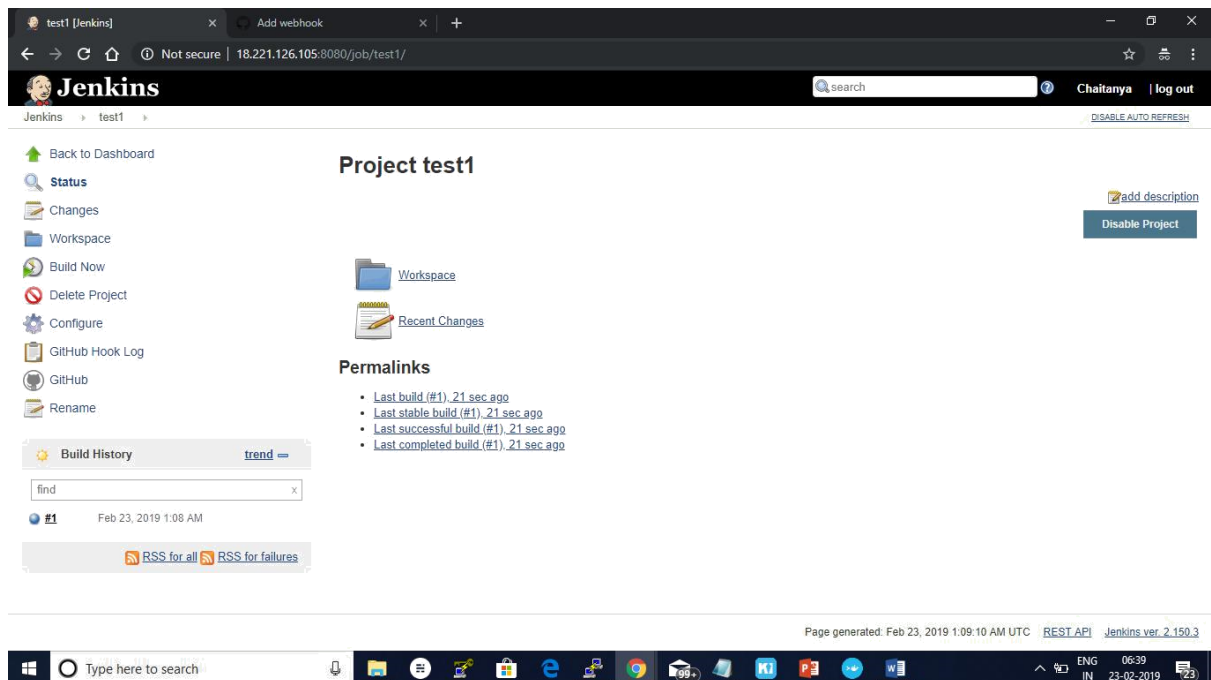
#1 Feb 23, 2019 1:08 AM

RSS for all RSS for failures

Waiting for 18.221.126.105...

Page generated: Feb 23, 2019 1:08:49 AM UTC REST API Jenkins ver. 2.150.3

Type here to search



This screenshot is similar to the first one but shows the 'Build History' table with more detail. The table has columns for build number, status, and time. It shows build #1 as 'Completed' at Feb 23, 2019 1:08 AM. The 'Permalinks' section now lists four links: 'Last build (#1), 21 sec ago', 'Last stable build (#1), 21 sec ago', 'Last successful build (#1), 21 sec ago', and 'Last completed build (#1), 21 sec ago'. The bottom status bar indicates 'Page generated: Feb 23, 2019 1:09:10 AM UTC'.

test1 [Jenkins] x Add webhook x +

← → × ⌂ ⓘ Not secure | 18.221.126.105:8080/job/test1/

Jenkins search Chaitanya log out

Jenkins > test1 > [DISABLE AUTO REFRESH](#)

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

GitHub Hook Log

GitHub

Rename

Project test1

add description

Disable Project

Workspace

Recent Changes

Permalinks

- Last build (#1), 21 sec ago
- Last stable build (#1), 21 sec ago
- Last successful build (#1), 21 sec ago
- Last completed build (#1), 21 sec ago

Build History trend

find x

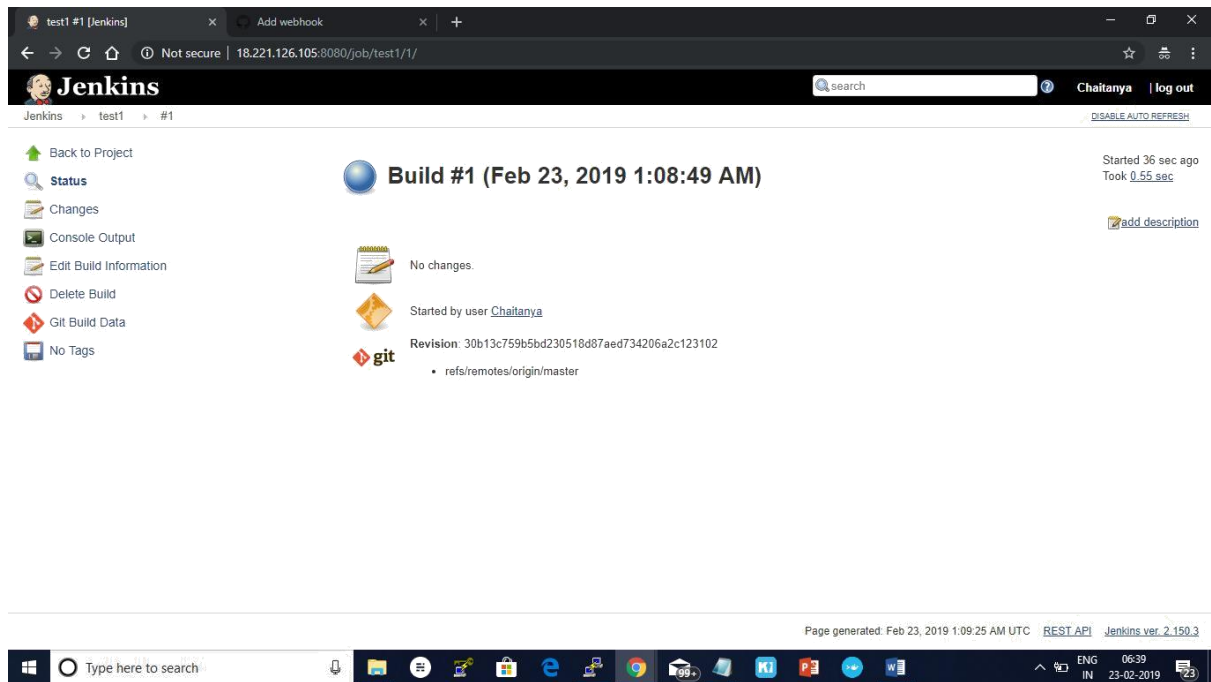
#1 Feb 23, 2019 1:08 AM

RSS for all RSS for failures

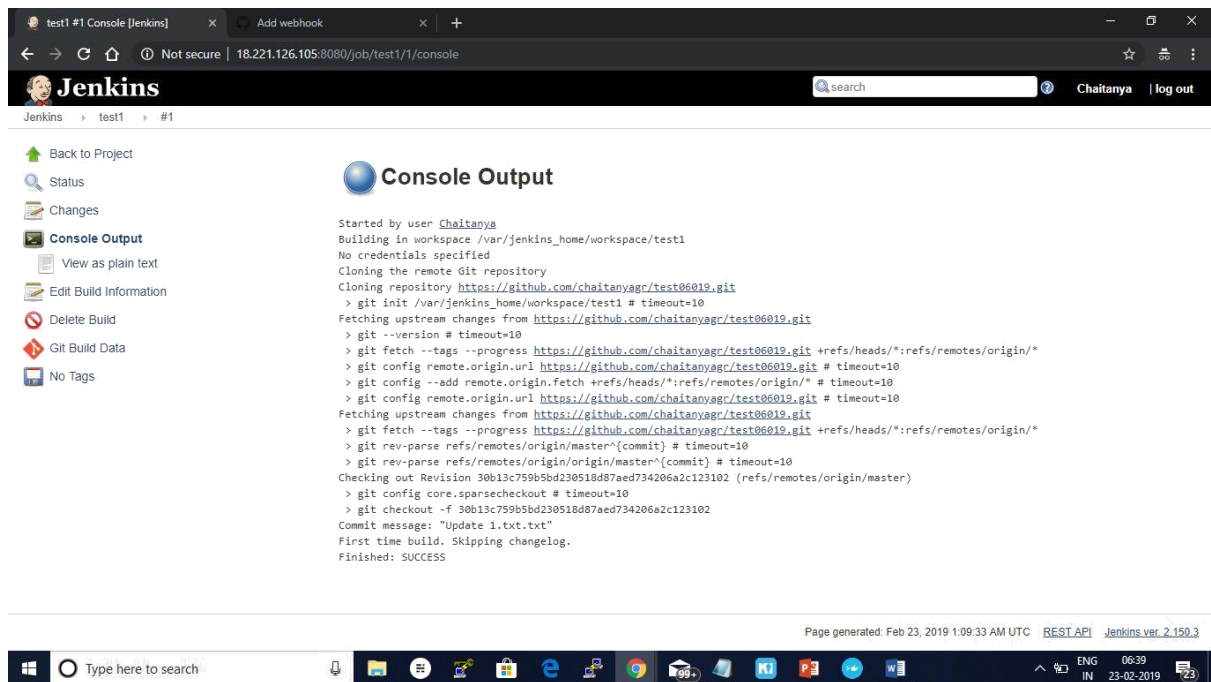
Page generated: Feb 23, 2019 1:09:10 AM UTC REST API Jenkins ver. 2.150.3

Type here to search

# BUILDING JOBS USING JENKINS



This screenshot shows the Jenkins web interface for a build named 'test1 #1'. The browser address bar indicates the URL is 18.221.126.105:8080/job/test1/1/. The Jenkins header includes a search bar and the user 'Chaitanya' with a 'log out' link. On the left sidebar, navigation links include 'Back to Project', 'Status', 'Changes', 'Console Output', 'Edit Build Information', 'Delete Build', 'Git Build Data', and 'No Tags'. The main content area displays 'Build #1 (Feb 23, 2019 1:08:49 AM)' with a status icon. It shows 'No changes' and 'Started by user Chaitanya'. The revision is '30b13c759b5bd230518d87aed734206a2c123102' from the 'refs/remotes/origin/master' branch. Metadata on the right indicates the build 'Started 36 sec ago' and 'Took 0.55 sec'. A 'DISABLE AUTO REFRESH' link and an 'add description' button are also present. The footer shows the page was generated on Feb 23, 2019 at 1:09:25 AM UTC, with links for 'REST API' and 'Jenkins ver. 2.150.3'. The Windows taskbar at the bottom shows various application icons and the system clock at 06:39 on 23-02-2019.



This screenshot shows the 'Console Output' page for the same Jenkins build. The browser address bar shows the URL 18.221.126.105:8080/job/test1/1/console. The left sidebar highlights 'Console Output' and includes a 'View as plain text' link. The main content area shows the build's execution log, starting with 'Started by user Chaitanya' and 'Building in workspace /var/jenkins\_home/workspace/test1'. The log details the cloning of a Git repository from 'https://github.com/chaitanyagr/test06019.git', the execution of 'git init', and the fetching of upstream changes. It also shows the configuration of the remote origin and the checkout of the revision '30b13c759b5bd230518d87aed734206a2c123102'. The log concludes with 'Commit message: "Update 1.txt.txt"', 'First time build. Skipping changelog.', and 'Finished: SUCCESS'. The footer and Windows taskbar are identical to the previous screenshot.