**KAIBUR TASK 5**

**CICD PIPELINE**

**Project Description**

This project is a Java REST API that is deployed using a CI/CD pipeline. The pipeline includes building the code using Maven, committing the changes to Git, creating a Docker image of the application, and deploying it to a Tomcat server.

**Prerequisites**

Java 8 or higher

Maven

Git

Docker

Tomcat

Jenkins

**Setup**

1 - Clone the project repository to your local machine.

2 - Open the Jenkins dashboard and create a new pipeline job.

3 - Configure the pipeline job to use the project repository as the source code.

4 - Set up the build process by adding the following build steps:

* Run Maven to build the application.
* Commit the changes to Git.
* Create a Docker image of the application.
* Push the Docker image to a Docker registry.

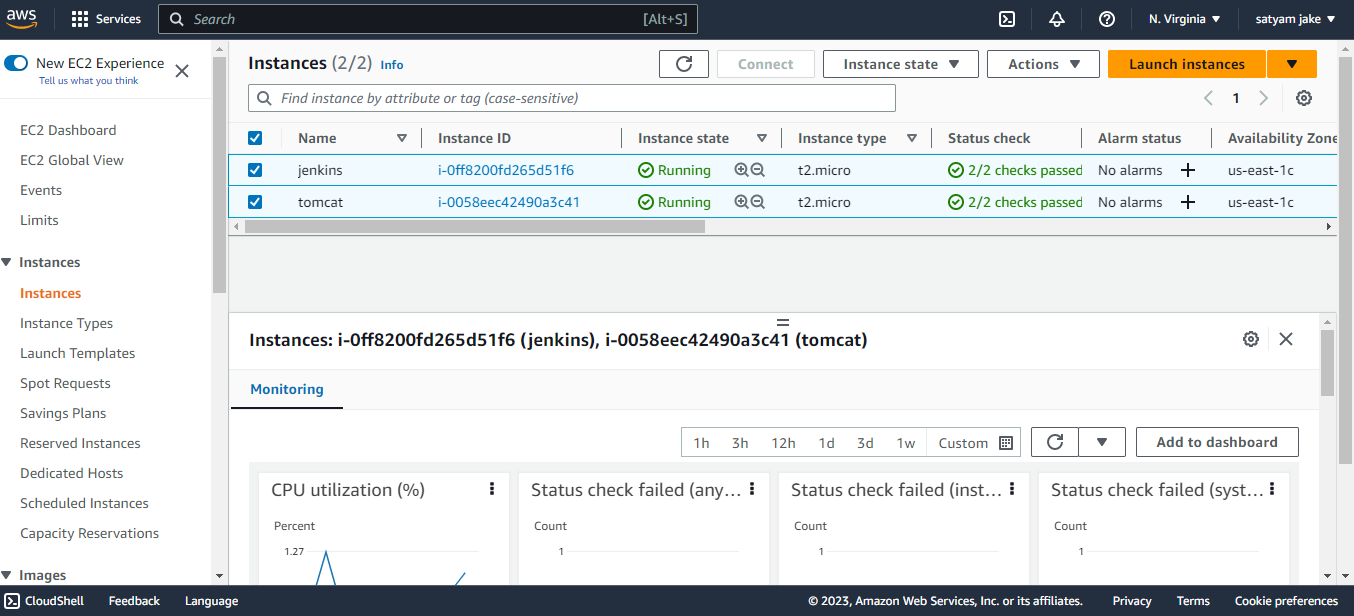
5 - Set up the deployment process by adding the following deploy steps:

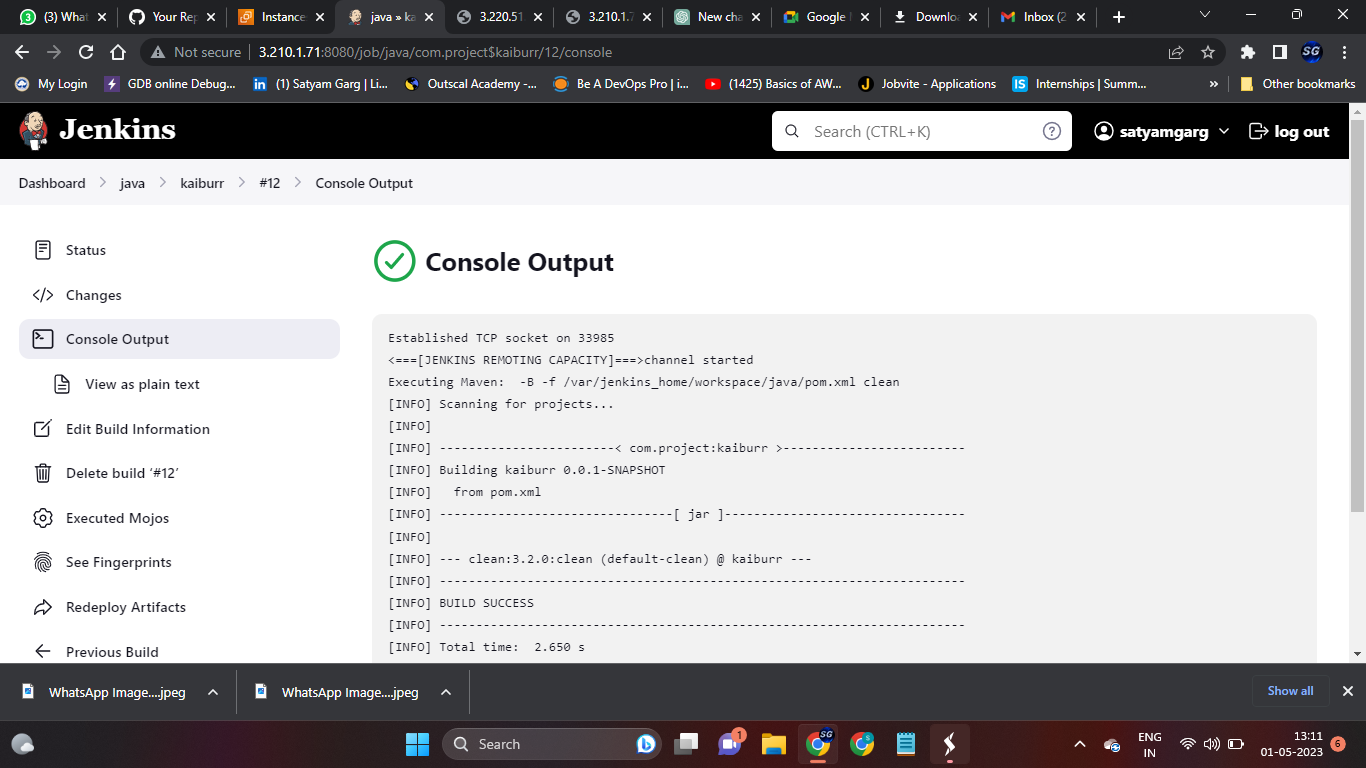
* Pull the Docker image from the Docker registry.
* Deploy the Docker container to a Tomcat server.

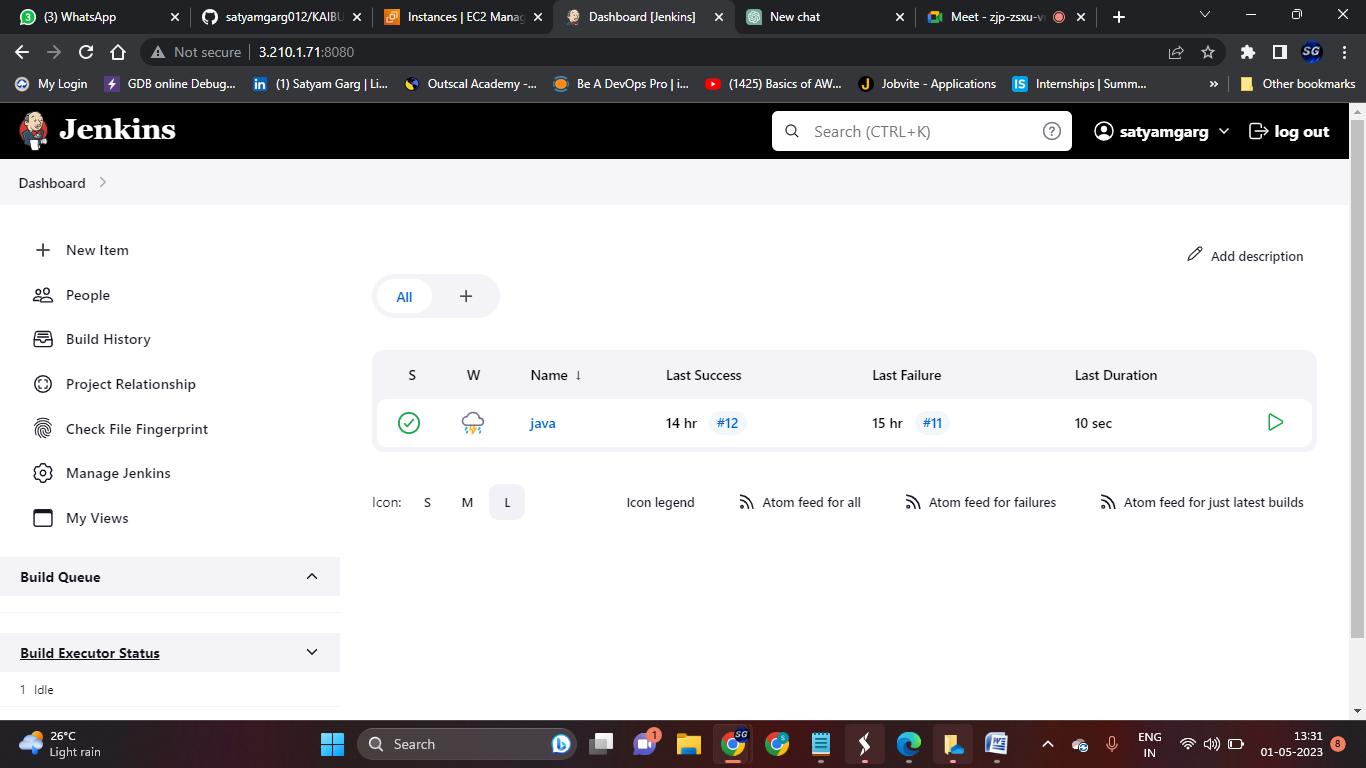
**Usage**

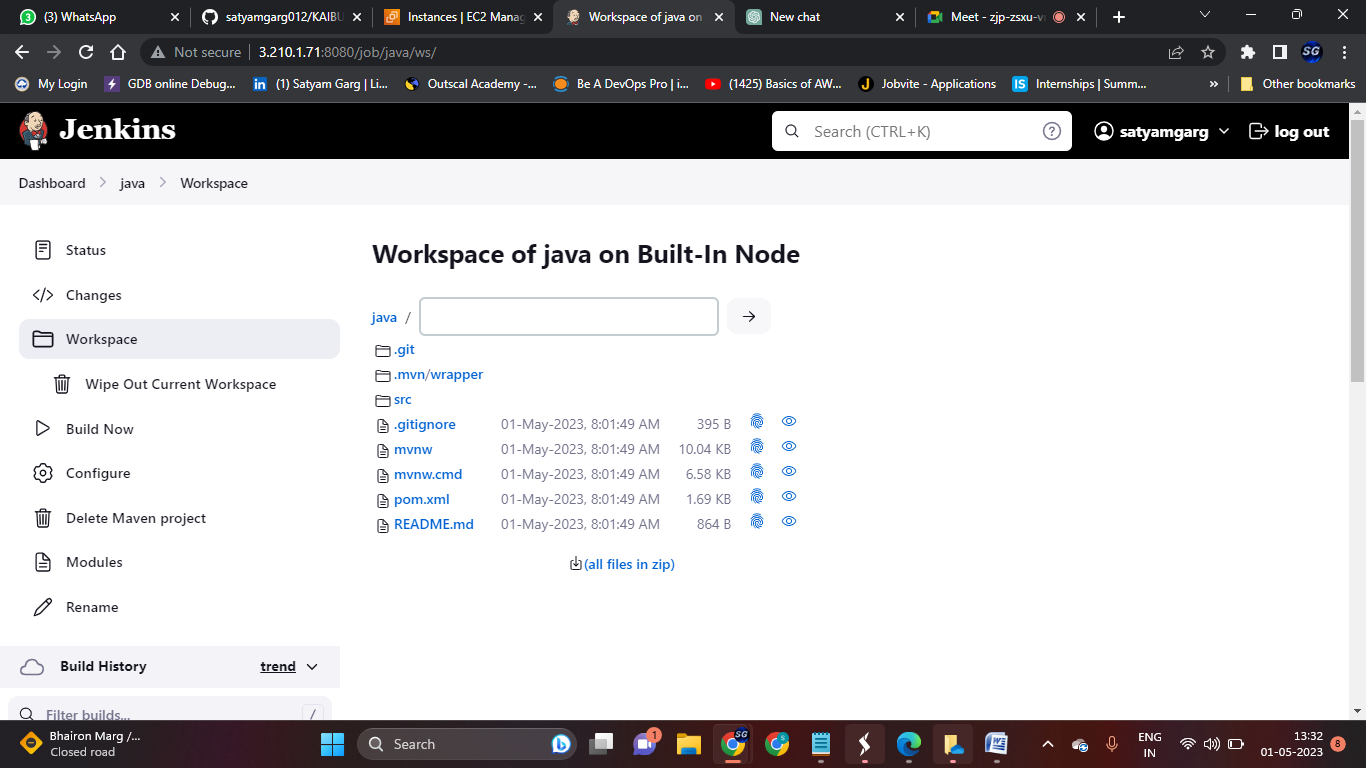
Once the pipeline is set up, any changes to the source code will automatically trigger a new build and deployment. You can monitor the progress of the pipeline and view the logs on the Jenkins dashboard.

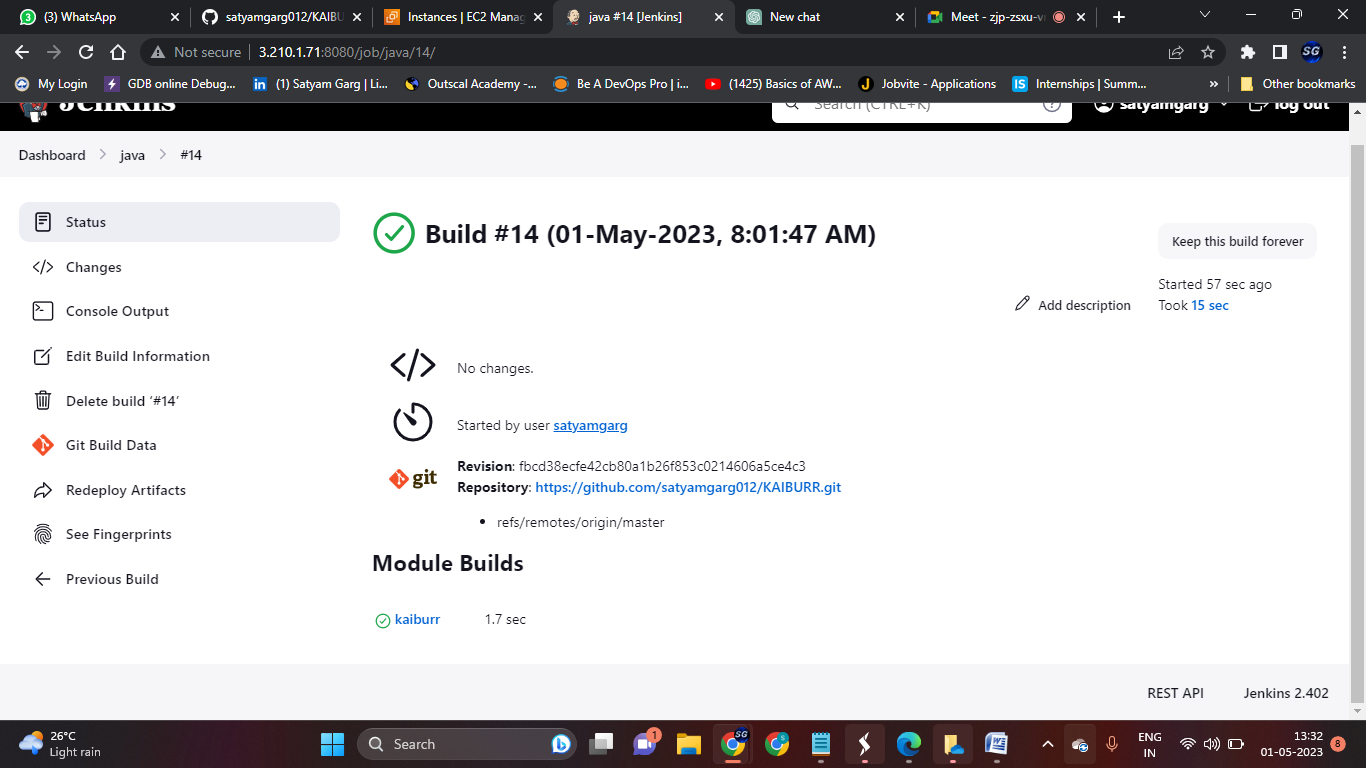
**SCREENSHOTS –**

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