

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

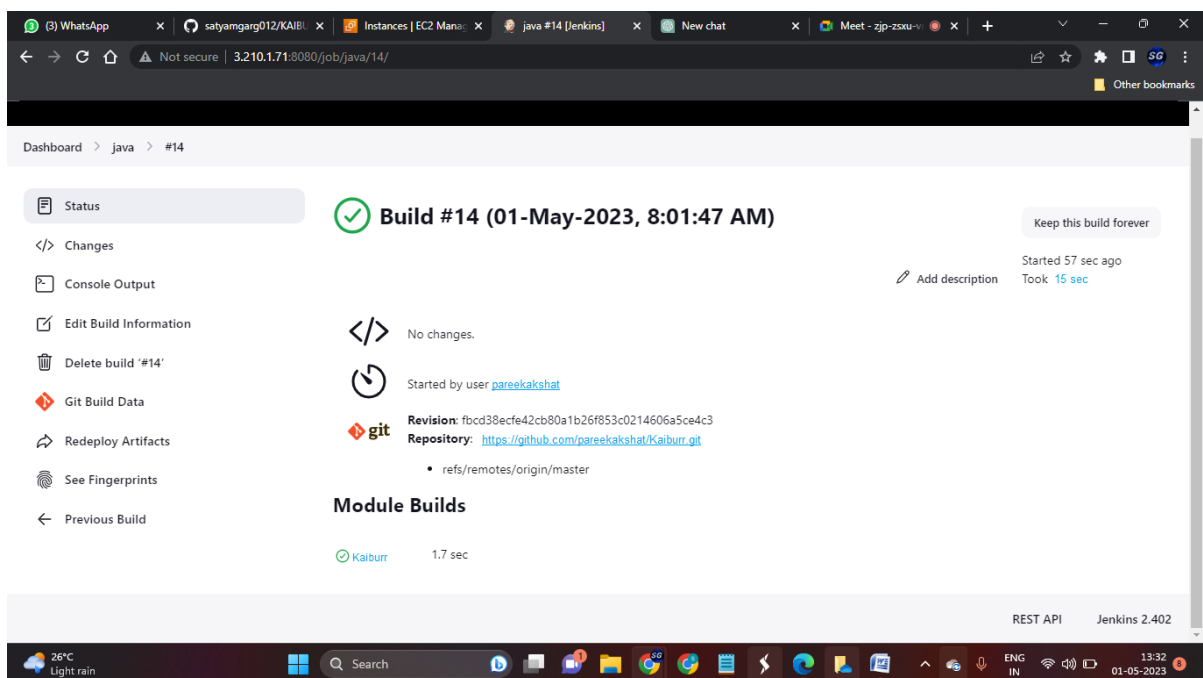
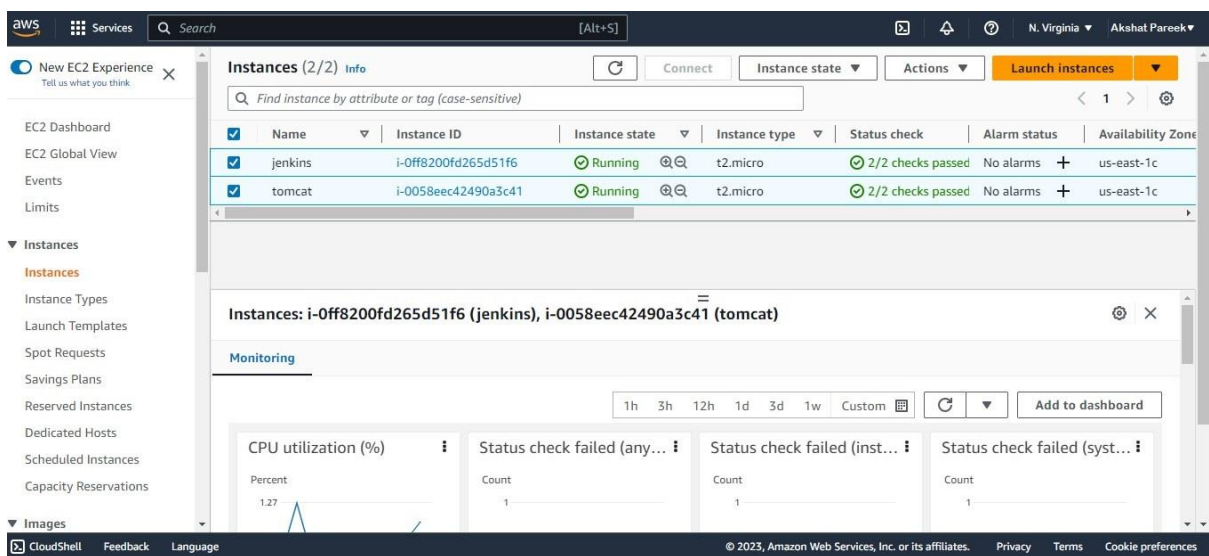
Setup

- 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



Workspace of java on Built-In Node

java /

- .git
- .mvn/wrapper
- src
- .gitignore 01-May-2023, 8:01:49 AM 395 B
- mvnw 01-May-2023, 8:01:49 AM 10.04 KB
- mvnw.cmd 01-May-2023, 8:01:49 AM 6.58 KB
- pom.xml 01-May-2023, 8:01:49 AM 1.69 KB
- README.md 01-May-2023, 8:01:49 AM 864 B

(all files in zip)

Build History trend

Filter builds

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Dashboard

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

Build Executor Status

1 idle

S	W	Name	Last Success	Last Failure	Last Duration
✓	🌤️	java	14 hr #12	15 hr #11	10 sec

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

3) What's New x Your Recent x Instance x java x 3.220.51 x 3.210.1 x New ch x Google x Downlo x Inbox x +

Not secure | 3.210.1.71:8080/job/java/com.project\$kaiburr/12/console

Other bookmarks

Jenkins

Search (CTRL+K) ? Akshat log out

Dashboard > java > kaiburr > #12 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#12'

Executed Mojos

See Fingerprints

Redeploy Artifacts

Previous Build

Console Output

Established TCP socket on 33985
<===[JENKINS REMOTING CAPACITY]===>channel started
Executing Maven: -B -f /var/jenkins_home/workspace/java/pom.xml clean
[INFO] Scanning for projects...
[INFO] -----< com.project:kaiburr >-----
[INFO] Building kaiburr 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[jar]-----
[INFO] --- clean:3.2.0:clean (default-clean) @ kaiburr ---
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.650 s

WhatsApp Image...jpeg ^ WhatsApp Image...jpeg ^ Show all x

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