

## **Jenkins CI/CD Pipeline – Demonstration Overview**

### **Objective:**

To demonstrate a working CI/CD pipeline using Jenkins that automates the deployment of a web application.

### Pipeline Description:

This project uses Jenkins to automatically fetch code from a GitHub repository, execute pipeline stages, and deploy the application without manual intervention whenever code changes are pushed.

### Automation Proof:

Any change made to the source code and pushed to GitHub triggers the Jenkins pipeline automatically and updates the deployed output, proving successful continuous deployment.

### Tools Used:

- Jenkins
- Git & GitHub
- HTML Web Application

### **EXISTING WEB PAGE**



### Jenkins CI/CD Pipeline Successful!

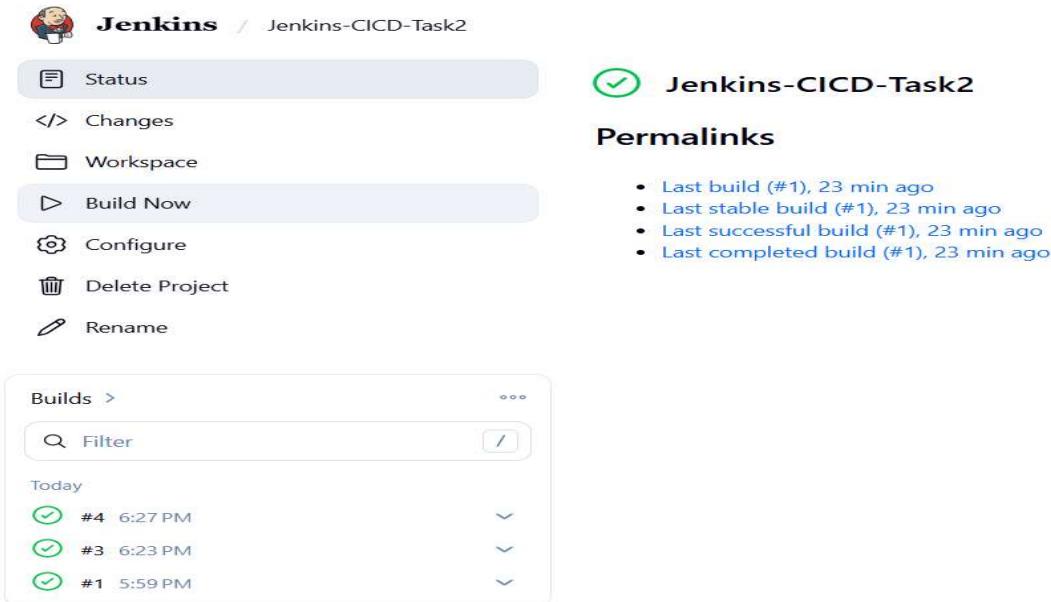
Deployed automatically using Jenkins

By Pranathi Manda

### **COMMITTED AFTER CHANGES**

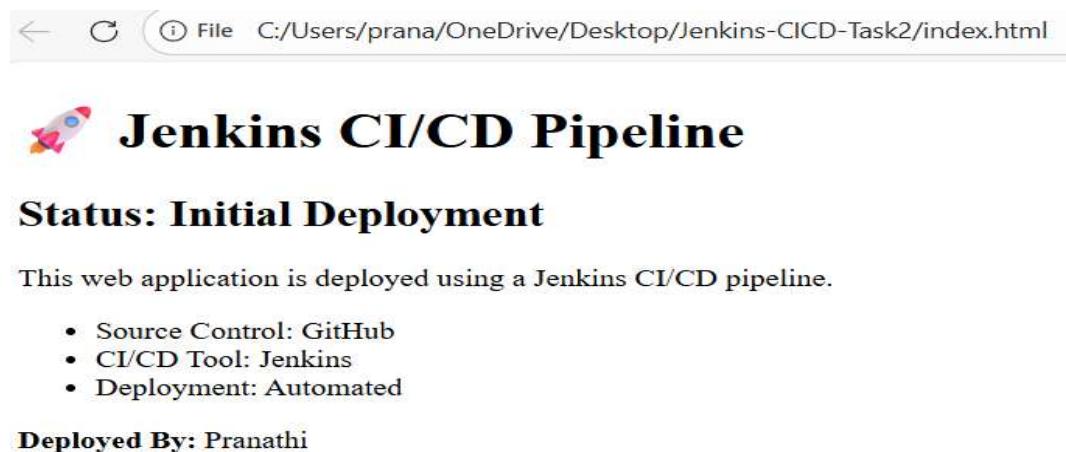
A screenshot of a terminal window titled "TERMINAL". The window shows a command-line session where the user has run "git add .", "git commit -m 'Testing for Automatic Deployment'", and "git push". The output of the "git push" command is displayed, showing the progress of object enumeration, counting, delta compression, compressing, writing, and pushing to the remote repository. The commit message "Testing for Automatic Deployment" is visible in the commit log.

## BUILD NOW IN JENKINS



The screenshot shows the Jenkins web interface for a project named "Jenkins-CI\_CD\_Task2". The left sidebar has several options: Status, Changes, Workspace, Build Now (which is highlighted with a blue bar), Configure, Delete Project, and Rename. Below the sidebar is a "Builds" section with a "Filter" input field. It lists three builds from today: #4 at 6:27 PM, #3 at 6:23 PM, and #1 at 5:59 PM. Each build entry has a dropdown arrow next to it.

## AUTOMATIC DEPLOYMENT AFTER BUILD NOW



The screenshot shows a browser window with the URL "C:/Users/prana/OneDrive/Desktop/Jenkins-CI\_CD\_Task2/index.html". The page title is "Jenkins CI/CD Pipeline". Below the title, the text "Status: Initial Deployment" is displayed. A message states, "This web application is deployed using a Jenkins CI/CD pipeline." A bulleted list follows, detailing the deployment stack: "Source Control: GitHub", "CI/CD Tool: Jenkins", and "Deployment: Automated". At the bottom, the text "Deployed By: Pranathi" is shown.

## **AGAIN TESTED**

← C ⓘ File C:/Users/prana/OneDrive/Desktop/Jenkins-CICD-Task2/index.html



# **CI/CD Automation Proof**

This content changed automatically without manual deployment.

**Triggered By:** GitHub Webhook

**CI/CD Tool:** Jenkins

**Pipeline Type:** Jenkinsfile

**Deployment Timestamp:** 30/1/2026, 7:09:33 pm

**Author:** Pranathi

## **TESTED FOR MULTIPLE TIMES TO ENSURE AUTOMATION**

The screenshot shows the Jenkins dashboard. At the top, there's a navigation bar with icons for search, refresh, and help. Below it, a button for 'Add description' is visible. On the left, there are two dropdown menus: 'Build Queue' (which says 'No builds in the queue.') and 'Build Executor Status' (which shows '0/2'). In the center, there's a table for the 'Jenkins-CICD-Task2' build. The table has columns for Status (green checkmark), Warning (yellow sun icon), Name (Jenkins-CICD-Task2), Last Success (7 min 53 sec ago), Last Failure (N/A), and Last Duration (2 sec). A green 'D' icon is at the end of the table row. At the bottom, there are icons for 'Icon: S M L' and a page number '000'.

S	W	Name ↴	Last Success	Last Failure	Last Duration
✓	☀	Jenkins-CICD-Task2	7 min 53 sec #6	N/A	2 sec