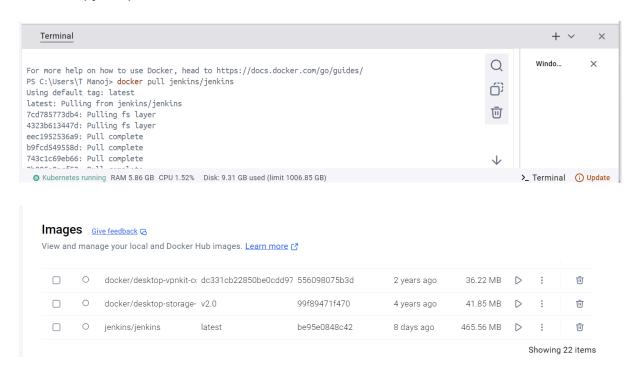
NAME: T MANOJ

EMPID: LYAKE2KHS

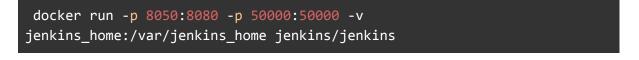
## **Setting up Jenkins with Docker**

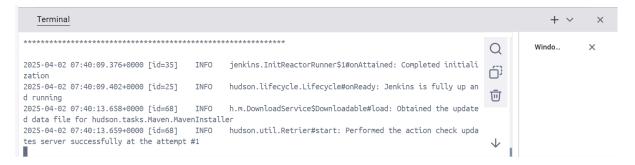
- 1. Go to hub.docker.com and open the Jenkins repository
- 2. Copy the pull command



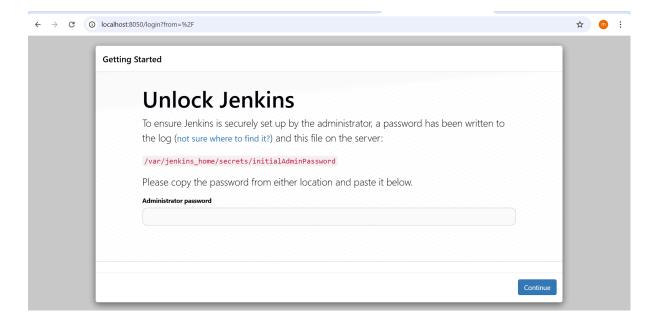
3. Run the command in your Docker desktop terminal

To create and run the Jenkins container:

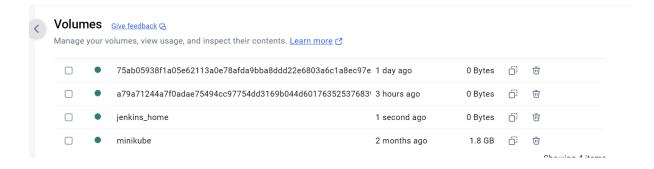


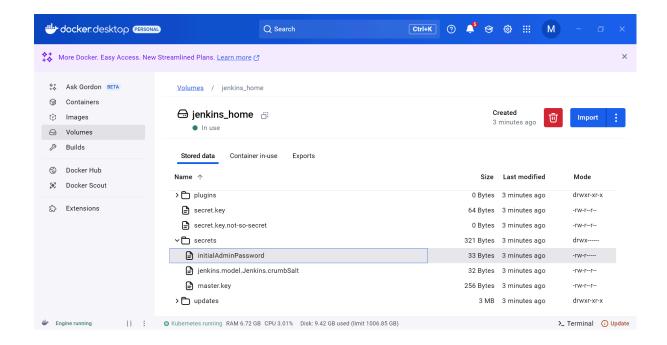


4. Open Chrome and navigate to localhost:8050



- 5. Get the initial admin password:
  - Navigate to Volume > secrets > initial admin password
  - Save the password to your local system
  - View and copy the password
  - o Paste it into Jenkins setup





## Setting up VS Code and Jenkins Pipeline

- 1. Open VS Code and install the Jenkins extension
- 2. Create a Jenkinsfile

# **Creating a Pipeline in Jenkins**

- 1. Write the pipeline script
- 2. Open a new terminal without closing the previous one
- 3. Run docker container 1s to get the container ID



4. Access the container: docker exec -it -u root [containerID] /bin/bash



5. Update and install Maven (build tool)

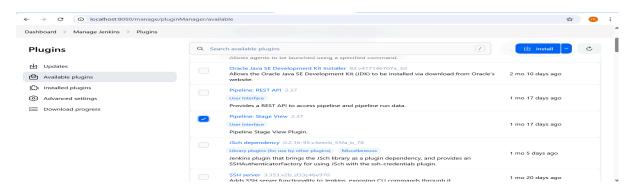


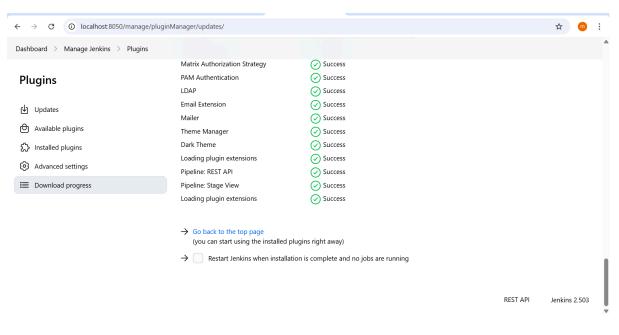


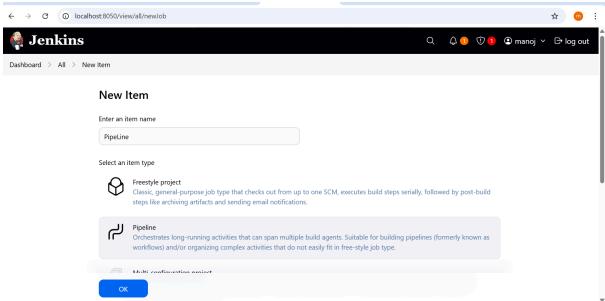
6. Exit the container

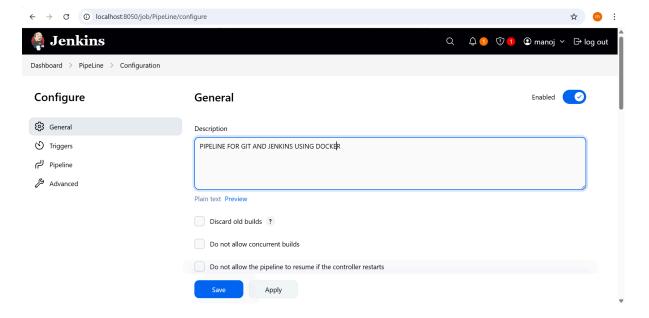
## Setting up the Jenkins Job

1. Install the "Pipeline: Stage View" plugin



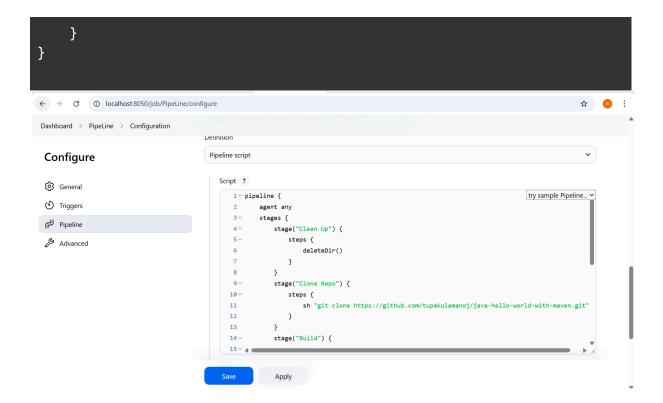






2. Create a job with this pipeline script:

```
pipeline {
   agent any
   stages {
        stage("Clean Up") {
            steps {
                deleteDir()
        stage("Clone Repo") {
            steps {
                sh "git clone
https://github.com/tupakulamanoj/java-hello-world-with-maven.git"
        stage("Build") {
            steps {
                dir("java-hello-world-with-maven") {
                    sh "mvn clean install"
            }
        stage("Test") {
            steps {
                dir("java-hello-world-with-maven") {
                    sh "mvn test"
            }
```



#### 3. Run and view the pipeline execution

