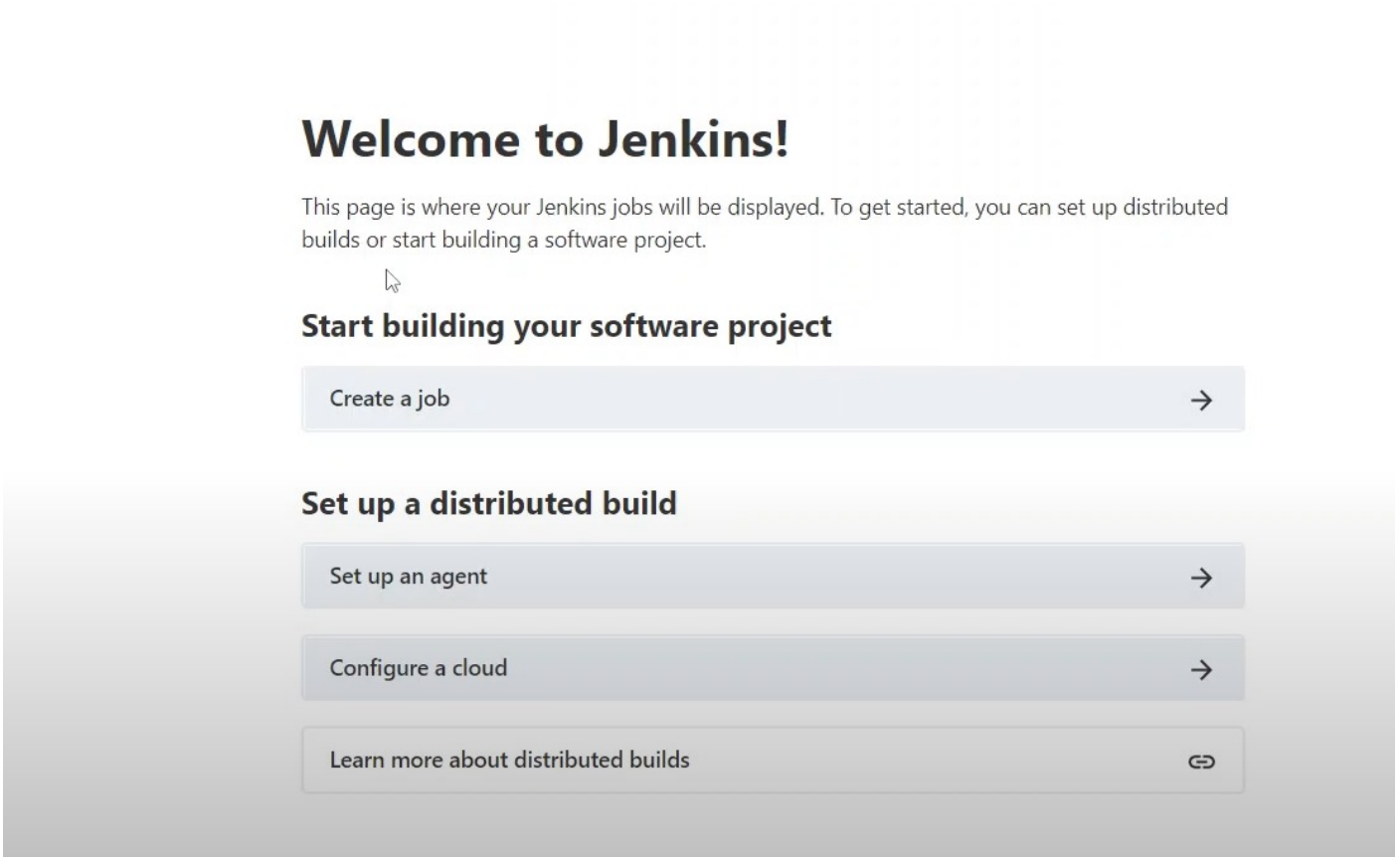
Walchand Institute of Technology, Solapur
Computer Science and Engineering
2023-24
In Semester Examination – I
DevOps

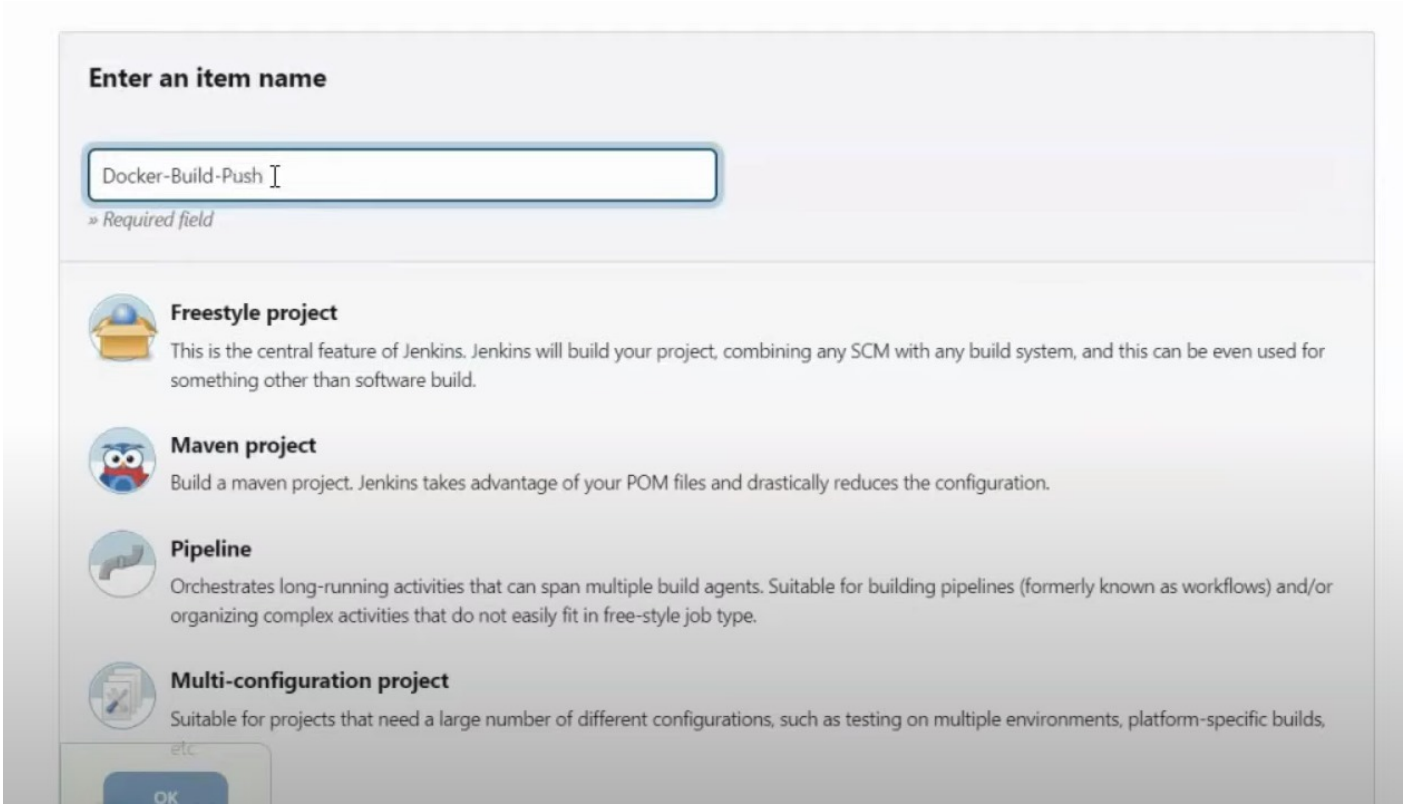
Class: BTech Div- A
Roll No : A_49

Problem Statement 1
Problem Statement:
Set up a Jenkins job that picks up an application from a GitHub repository, builds it, and runs it and dockerizes the application.

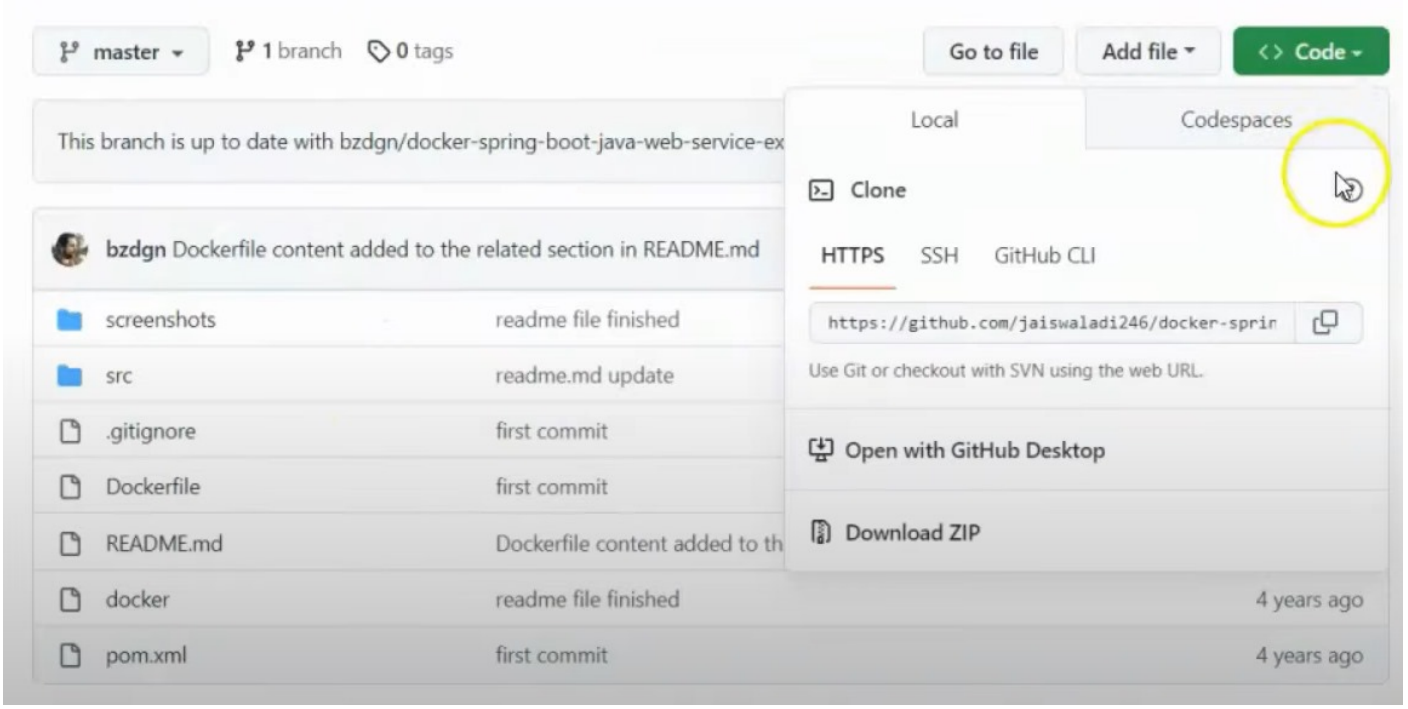
Code:
Step 1:



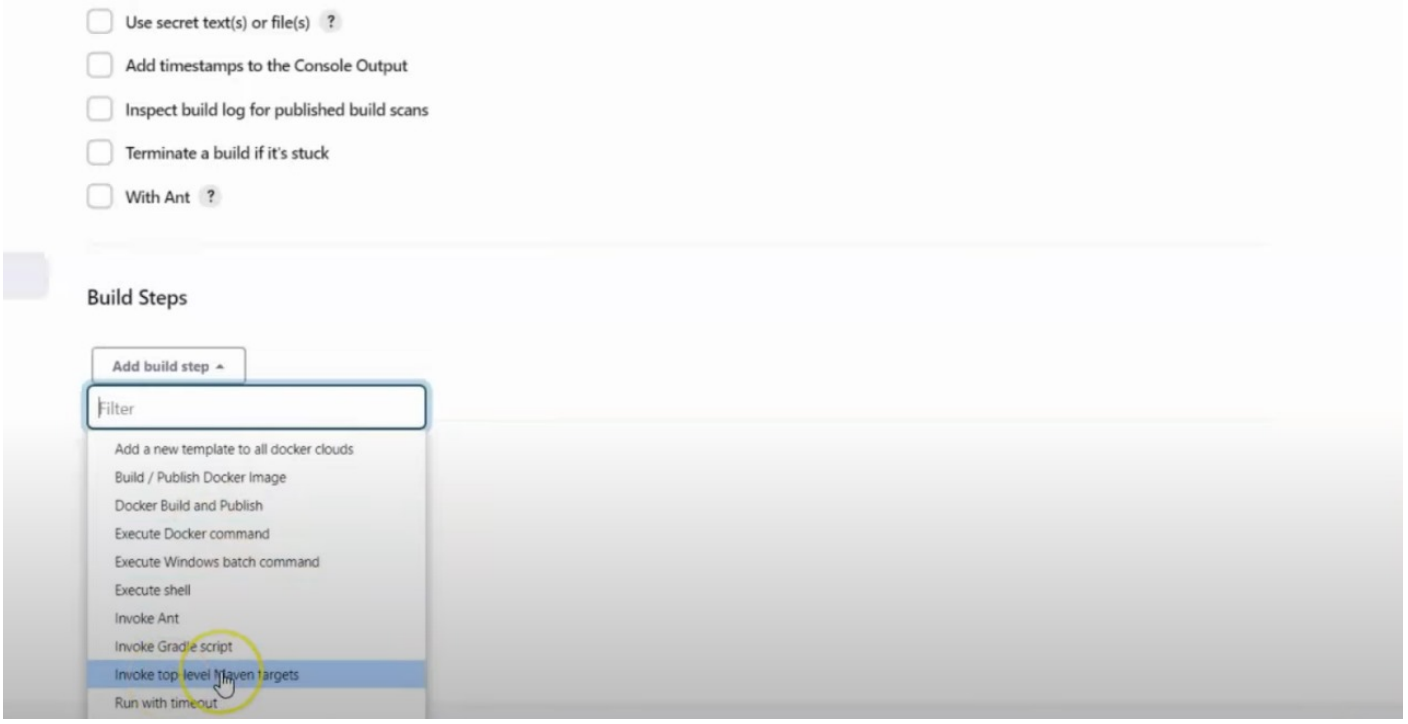
Step 2:


Enter an item name
Docker-Build-Push
» Required field
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.
Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
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.
OK

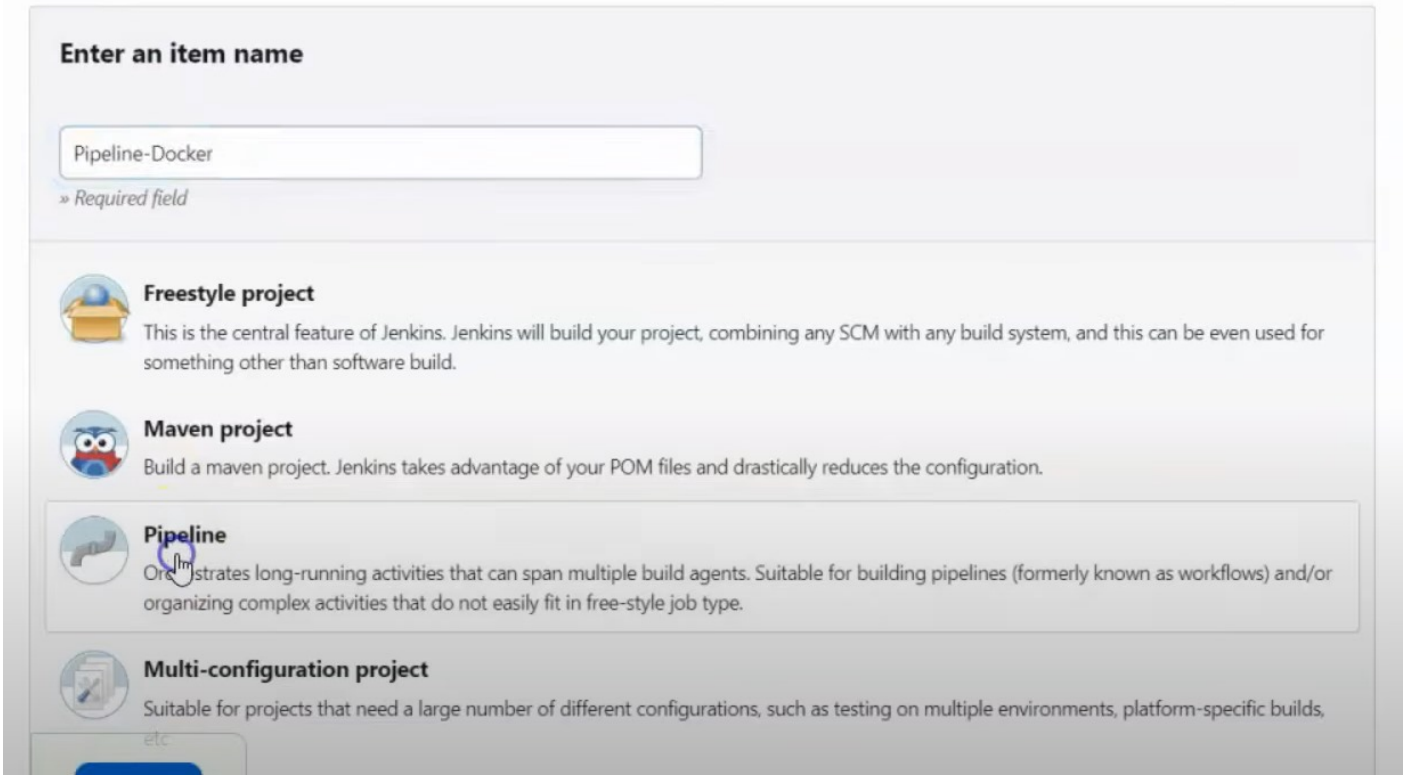
Step 3:


master
1 branch
0 tags
Go to file
Add file
Code
This branch is up to date with bzdgn/docker-spring-boot-java-web-service-ex
Local
Codespaces
Clone
HTTPS
SSH
GitHub CLI
https://github.com/jaiswaladi246/docker-sprir
Use Git or checkout with SVN using the web URL.
Open with GitHub Desktop
Download ZIP
bzdgn Dockerfile content added to the related section in README.md
screenshots readme file finished
src readme.md update
.gitignore first commit
Dockerfile first commit
README.md Dockerfile content added to th
docker readme file finished 4 years ago
pom.xml first commit 4 years ago

Step 4:


Use secret text(s) or file(s)
Add timestamps to the Console Output
Inspect build log for published build scans
Terminate a build if it's stuck
With Ant
Build Steps
Add build step
Filter
Add a new template to all docker clouds
Build / Publish Docker Image
Docker Build and Publish
Execute Docker command
Execute Windows batch command
Execute shell
Invoke Ant
Invoke Gradle script
Invoke top-level Maven targets
Run with timeout

Step 5:


Enter an item name
Pipeline-Docker
» Required field
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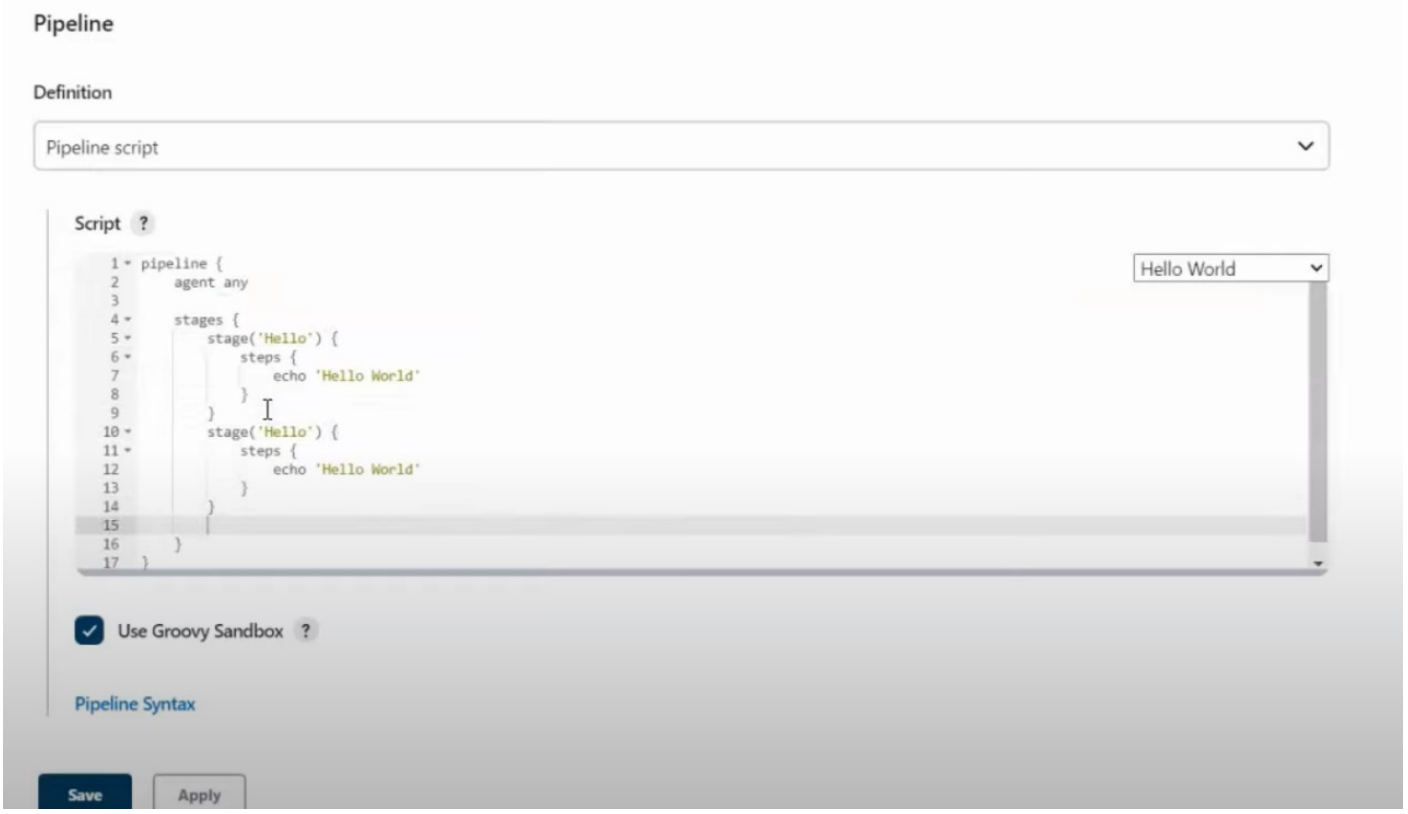
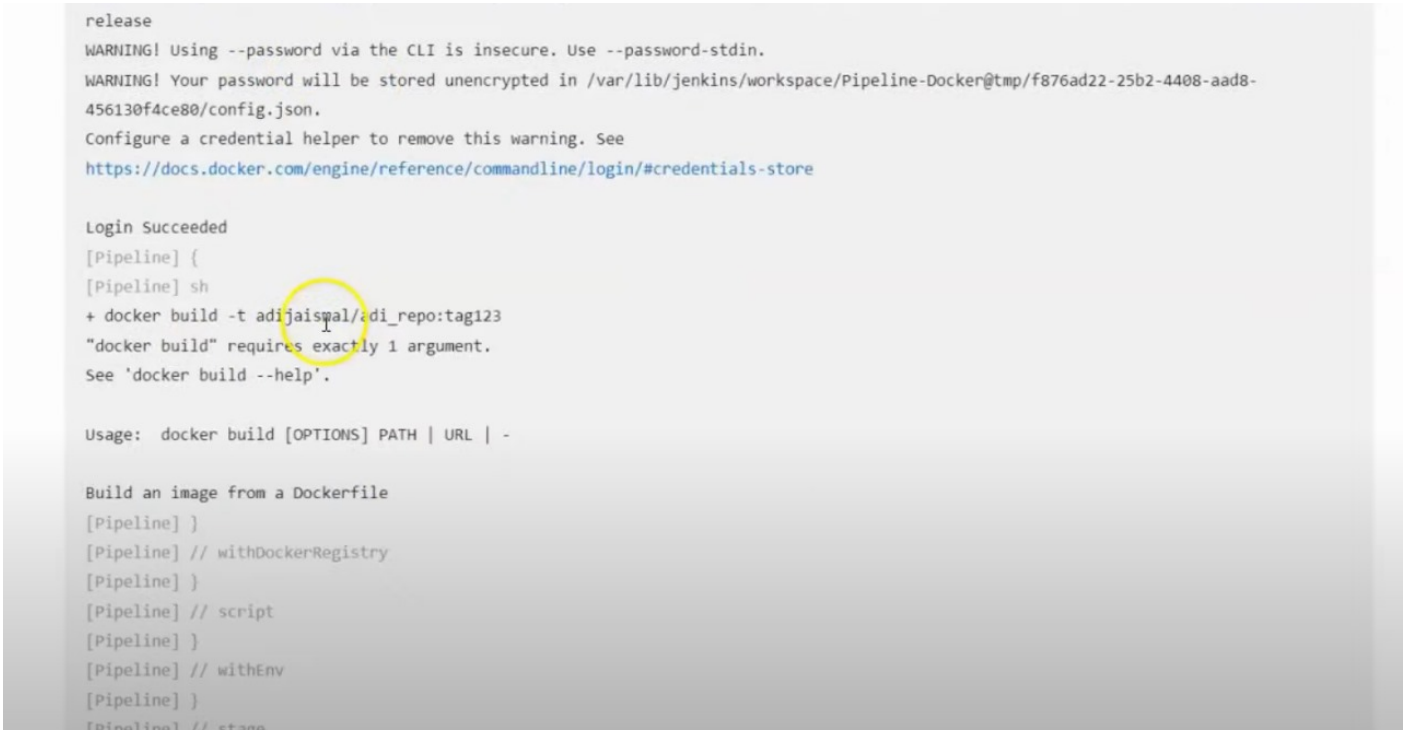
Step 6:


Pipeline
Definition
Pipeline script
Script ?
Hello World
1 pipeline {
2 agent any
3
4 stages {
5 stage('Hello') {
6 steps {
7 echo 'Hello World'
8 }
9 }
10 stage('Hello') {
11 steps {
12 echo 'Hello World'
13 }
14 }
15
16 }
17 }
Use Groovy Sandbox ?
Pipeline Syntax
Save
Apply

Step 7:


release
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/workspace/Pipeline-Docker@tmp/f876ad22-25b2-4408-aad8-456130f4ce80/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
[Pipeline] {
[Pipeline] sh
+ docker build -t adijaiswal/adi_repo:tag123
"docker build" requires exactly 1 argument.
See 'docker build --help'.
Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }