

Multistage CI/CD pipeline project using Jenkins.

← → ↻ Not secure | 52.91.123.65:8080/manage/

Dashboard > Manage Jenkins

Manage Jenkins

- + New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins**
- My Views

Build Queue
No builds in the queue.

Build Executor Status
built-in node (0 of 2 executors busy)

System Configuration

Configure System
Configure global settings and paths.

Global Tool Configuration
Configure tools, their locations and automatic installers.

Manage Plugins
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

Manage Nodes and Clouds
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Security

Configure Global Security
Secure Jenkins; define who is allowed to access/use the system.

Manage Credentials
Configure credentials

Enter dockerhub credentials

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > swapnildhande/***** (this is dockerHub credentials)

- Update**
- Delete
- Move

Update credentials

Scope ?
Global (Jenkins, nodes, items, all child items, etc)

Username ?
swapnildhande

☐ Treat username as secret ?

Password ?
Concealed Change Password


ID ?
dockerHub


Save


Create new job of pipeline option

Enter an item name

» 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.

**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,

OK

Copy github repo url

Dashboard ▾ > Nodejs-cicd-pipeline ▾ > Configuration

Configure

General

Advanced Project Options

Pipeline

Description

This is a multistage pipeline for Nodejs app

[Plain text] [Preview](#)

☐ Discard old builds ?

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☒ **GitHub project**

Project url ?

Advanced...

Select pipeline script

Dashboard ▾ > Nodejs-cicd-pipeline ▾ > Configuration

Configure

General

Advanced Project Options

Pipeline

Pipeline

Definition

Pipeline script

Pipeline script

Pipeline script from SCM

```
1 pipeline {
2   agent any
3
4   stages{
5     stage('Code'){
6       steps{
7         echo "Code stage.... coding..."
8         git url: "https://github.com/swapnildhande/node-todo-cicd", branch: "master"
9       }
10    }
11    stage('Build'){
12      steps{
13        echo "Build stage.... building"
14        sh 'docker build . -t swapnildhande/node-todo-test:latest'
15      }
16    }
17  }
```

SCRIPT code:

```
pipeline {
  agent any

  stages{
    stage('Code'){
      steps{
        echo "Code stage.... coding..."

        git url: "https://github.com/swapnildhande/node-todo-cicd", branch: "master"
      }
    }

    stage('Build'){
      steps{
        echo "Build stage.... building"

        sh 'docker build . -t swapnildhande/node-todo-test:latest'
      }
    }

    stage('Docker Push') {
      steps {
        script {
          withCredentials([usernamePassword(credentialsId: 'dockerHub', passwordVariable:
'DOCKER_HUB_PASSWORD', usernameVariable: 'DOCKER_HUB_USERNAME')]) {
            sh "docker login -u $DOCKER_HUB_USERNAME -p $DOCKER_HUB_PASSWORD"

            sh "docker push swapnildhande/node-todo-test:latest"

            echo "push successful.....!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
          }
        }
      }
    }

    stage('Test'){
```

```

    steps{
        echo "Test stage..... testing"
    }
}

stage('Deploy'){
    steps{
        echo "Deploy stage..... deploying"
        sh "docker-compose down && docker-compose up -d"
    }
}
}
}
}
}

```

Apply and save

Dashboard > Nodejs-cicd-pipeline > Configuration

Configure

- General
- Advanced Project Options
- Pipeline**

Script ?

```

27     }
28
29
30     stage('Test'){
31         steps{
32             echo "Test stage..... testing"
33         }
34     }
35
36     stage('Deploy'){
37         steps{
38             echo "Deploy stage..... deploying"
39             sh "docker-compose down && docker-compose up -d"
40         }
41     }
42 }

```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save
Apply

Click build now

Search (CTRL+K)

Swapnil Dhande

log out

Dashboard > Nodejs-cicd-pipeline >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

GitHub

Pipeline Nodejs-cicd-pipeline

This is a multistage pipeline for Nodejs app

Edit description

Disable Project

Stage View

Code

Build

Docker Push

Test

Deploy

Console output

Search (CTRL+K)

Swapnil Dhande

log out

Dashboard > Nodejs-cicd-pipeline > #11

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#11'

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Console Output

```

Started by user Swapnil Dhande
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Nodejs-cicd-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Code)
[Pipeline] echo
Code stage... coding...
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Nodejs-cicd-pipeline/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/swapnildhande/node-todo-cicd # timeout=10
Fetching upstream changes from https://github.com/swapnildhande/node-todo-cicd
> git --version # timeout=10
> git --version # 'git version 2.34.1'

```

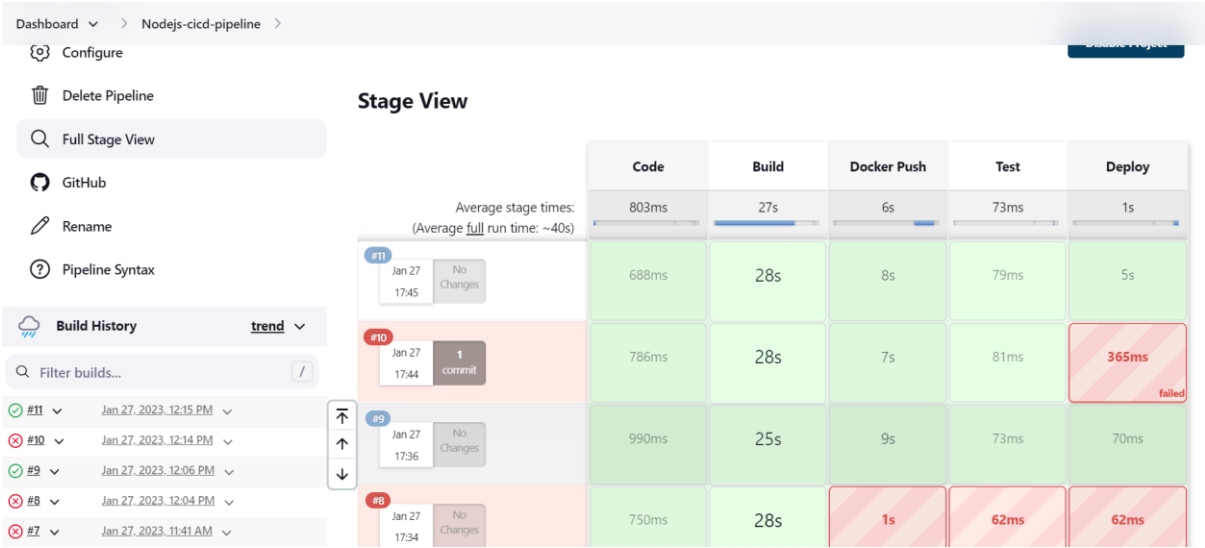
Successfully deployed

```

[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploy stage..... deploying
[Pipeline] sh
+ docker-compose down
Removing network nodejs-cicd-pipeline_default
Network nodejs-cicd-pipeline_default not found.
+ docker-compose up -d
Creating network "nodejs-cicd-pipeline_default" with the default driver
Creating nodejs-cicd-pipeline_web_1 ...
Creating nodejs-cicd-pipeline_web_1 ... done
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

Pipeline stage view



Project is running

< > ↺

⚠ Not secure | 52.91.123.65:8000/todo

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What shoud I do?