

## Dockerizing Jenkins Pipeline

Step1: Cloned the source code from the source code repository to <https://github.com/iravivarma>

Step2: installed the Jenkins in Linux Ubuntu using the commands:

Installation of Java is a prerequisite

```
sudo apt update
sudo apt install openjdk-8-jdk
```

Adding the Jenkins Debian repository.

Import the GPG keys of the Jenkins repository using the following `wget` command:

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
```

add the Jenkins repository to the system with:

```
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
```

Install Jenkins.

Once the Jenkins repository is enabled, update the `apt` package list and install the latest version of Jenkins by typing:

```
sudo apt updatesudo apt install jenkins
```

## Installation of Docker through the convenience script

Step3: `curl -fsSL https://get.docker.com -o get-docker.sh`

Step4: `sh get-docker.sh`

### Working On the Project:

Step5: create a new pipeline job in Jenkins

Step 6: Go to new job->manage jenkins->build triggers->pipeline with sample script(pasted the source code which is copied from the source code repository)

Step7:Go to Manage plugins->installed nodejs plugin and go to global credentials->added the docker hub credentials to the Jenkins.

Step8: And added the Jenkins user to docker using the command `sudo usermod -aG username`

Step9: Built the job is success

The screenshot displays the Jenkins web interface for a job named 'dockerizejenkins #6'. The console output shows a successful Docker build process. The build log includes the following details:

- Build number: 6
- Digest: sha256:ccd1b13d1404c7844867ddcc83fcc0eb31a76b43defb98b67c56eb16d9e545
- Size: 3474
- Build steps: [Pipeline] }
- Environment: [Pipeline] // withDockerRegistry
- Script: [Pipeline] }
- Stage: [Pipeline] // stage
- Node: [Pipeline] // node
- End of Pipeline: [Pipeline] End of Pipeline
- Finished: SUCCESS

The Jenkins console output also shows the following details:

- Started by user `aridatta`
- Running in Durability level: MAX\_SURVIVABILITY
- Running on `jenkins` in `/var/lib/jenkins/workspace/dockerizejenkins`
- Tool: [Pipeline] tool
- Environment: [Pipeline] envVarsForTool
- Stage: [Pipeline] // stage
- WithEnv: [Pipeline] withEnv
- Stage: [Pipeline] stage
- Cloning Git: [Pipeline] (Cloning Git)
- Tool: [Pipeline] tool
- Environment: [Pipeline] envVarsForTool
- WithEnv: [Pipeline] withEnv
- Git: [Pipeline] git
- No credentials specified
- Git rev-parse --is-inside-work-tree # timeout=10
- Fetching changes from the remote Git repository
- Git config remote.origin.url https://github.com/SimplilearnDevOpsOfficial/DockerizeJenkins.git # timeout=10
- Fetching upstream changes from https://github.com/SimplilearnDevOpsOfficial/DockerizeJenkins.git
- Git version # timeout=10
- Git fetch --tags --progress https://github.com/SimplilearnDevOpsOfficial/DockerizeJenkins.git +refs/heads/\*:refs/remotes/origin/\*
- Git rev-parse refs/remotes/origin/master (commit) # timeout=10

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Applications dockerizejenkins [Jenki... [ubuntu - File Manager] [Terminal - ubuntu@ip-1... [Terminal - ubuntu@ip-1... [Terminal - ubuntu@ip-1... 11:19 Ubuntu

dockerizejenkins [Jenkins] x https://index.docker.io/v1/ x +

Not secure 172.17.0.1:8080/job/dockerizejenkins/

Jenkins > dockerizejenkins > Pipeline Syntax

Build History trend

find x

Aug 9, 2019 10:46 AM #6  
Aug 9, 2019 10:45 AM #5  
Aug 9, 2019 10:35 AM #4  
Aug 9, 2019 10:16 AM #3  
Aug 9, 2019 10:09 AM #2  
Aug 9, 2019 10:07 AM #1

RSS for all RSS for failures

Average stage times:  
(Average full run time: ~1min 18s)

	Declarative: Tool Install	Cloning Git	Build	Test	Building image	Deploy image
Aug 09 10:46	116ms	573ms	7s	946ms	3s	1min 4s
Aug 09 10:45	196ms	877ms	9s	1s	6s	891ms failed
Aug 09 10:35	388ms	1s	8s	1s	5s	891ms failed
Aug 09 10:16	152ms	489ms	8s	2s	5s	875ms failed
Aug 09 10:09	351ms	1s	8s	1s	1min 36s	2s failed
Aug 09 10:07	5s	1s	20s	1s	3s	169ms failed

13:19

Step10: checked the result in Dockerhub.com and it is success

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https://cloud.docker.com/u/rvarma123/repository/docker/rvarma123/sl-jenkins

dockerhub Explore Repositories Organizations Get Help rvarma123

Repositories rvarma123 / sl-jenkins Using 0 of 1 private repositories. Get more

General Tags Builds Timeline Collaborators Webhooks Settings

🌐 rvarma123/sl-jenkins

This repository does not have a description

🕒 Last pushed: an hour ago

Docker commands

To push a new tag to this repository.

`docker push rvarma123/sl-jenkins:tagname`

Tags

This repository contains 1 tag(s).

6 📄 an hour ago

See all

Full Description

Repository description is empty. Click [here](#) to edit.

14:16