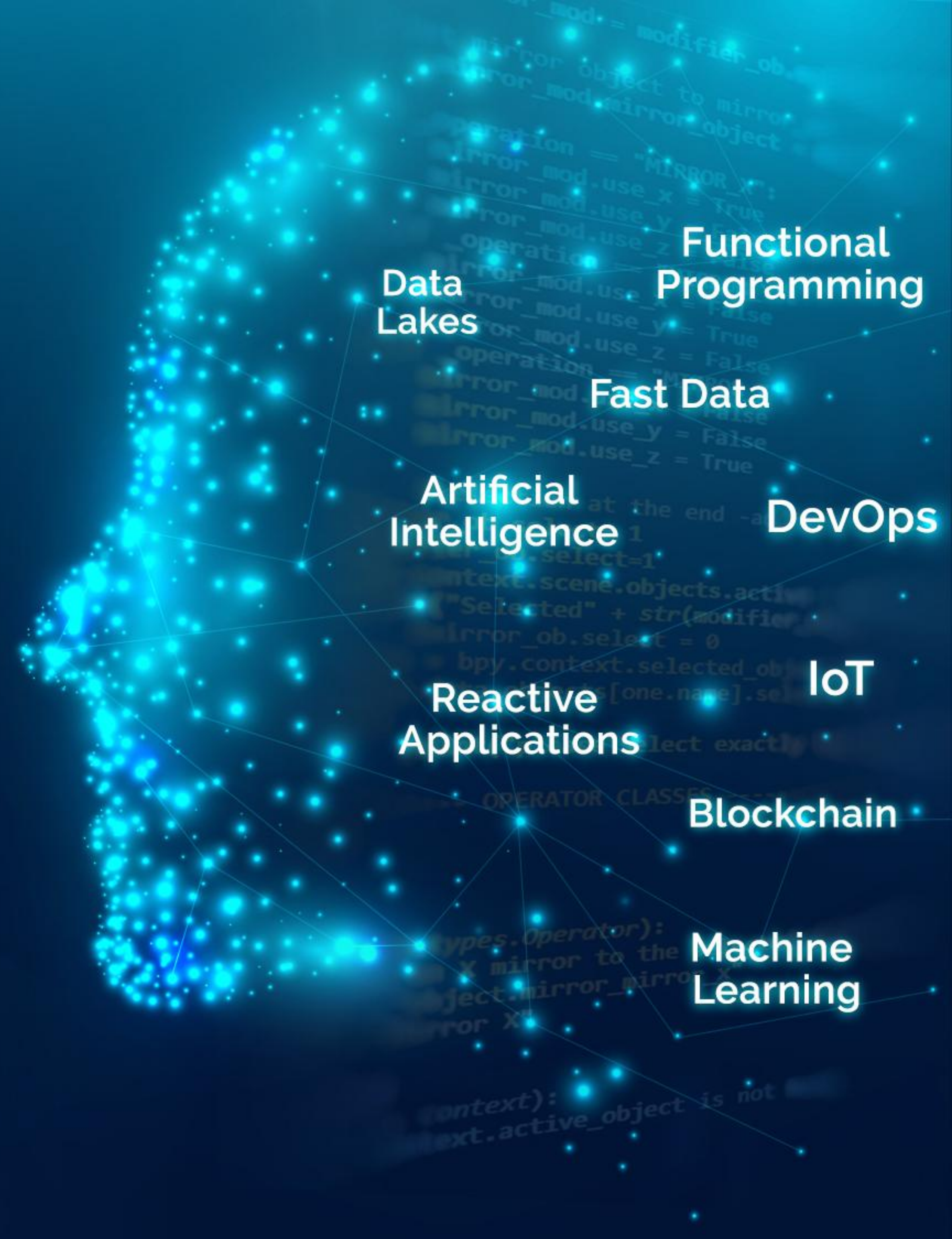


# Jenkins & Docker Assignment

Presented By: Lokesh Kumar





# Agenda

1. YourCreate a Jenkins pipeline to deploy application present at:  
<https://github.com/knoldus/node-hello>
2. Required command to run the application and the ports being used are present in the Github repository.
3. The application should be containerized and should be running on docker.
4. The image has to be pushed on DockerHub and should be pulled for running.
5. The ports of the application should be open for communication and accept connection on the host machine.
6. Use any type of Jenkins project.
7. Implement use of **Global Tools Configuration** to use NodeJS effectively
8. Requirements:
  - a. Jenkins should be set up on a Cloud **Virtual Machine** and not from the local system
  - b. Any commits to the '**main**' branch should trigger the job on Jenkins and start the build process
  - c. Use Github webhooks to trigger builds
  - d. The first part of the Jenkins job should be creating the **package**
  - e. The second part of the Jenkins job will be to send the package to another VM and run it there
9. The **validations** can be performed by hitting endpoints: <VM\_IP>:3000 or <VM\_IP>:3001

step 1: created an AWS instance

Activities Google Chrome Aug 19 14:27

Knold x Word x Me x Recor x jenkins x Knold x Me | T x Instar x My Dr x 3.17.1 x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:

Apps Gmail YouTube Google Meet Recording Rep... Home | Dashb... Akka Actors:... Classwork for... Account List -... Reading list

aws Services Search for services, features, marketplace products, and docs [Alt+S] Lokesh\_Kumar Ohio Support

New EC2 Experience Tell us what you think

EC2 Dashboard  
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Tags  
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▼ Instances  
Instances New  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances New  
Dedicated Hosts  
Capacity Reservations

▼ Images  
AMIs

Instances (1) Info

Filter Instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	Jenkins-Instance	i-0232c2a6241e881bc	Running	t2.micro	2/2 checks passed	No alarms	us-east-2

Select an instance above

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step 2 : connecting terminal with AWS instance

```
ubuntu@ip-172-31-16-52: ~  
knoldus@knoldus-Vostro-15-3568:~$ ls -l demo-pair.pem  
ls: cannot access 'demo-pair.pem': No such file or directory  
knoldus@knoldus-Vostro-15-3568:~$ cd Downloads  
knoldus@knoldus-Vostro-15-3568:~/Downloads$ ls -l demo-pair.pem  
-r----- 1 knoldus knoldus 1704 Aug 19 13:15 demo-pair.pem  
knoldus@knoldus-Vostro-15-3568:~/Downloads$ ssh -i "demo-pair.pem" ubuntu@ec2-3  
-17-191-30.us-east-2.compute.amazonaws.com  
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Thu Aug 19 08:20:35 UTC 2021  
  
De  
System load:  0.0          Processes:            95  
Usage of /:   14.9% of 7.69GB Users logged in:     1  
Memory usage: 20%         IP address for eth0: 172.31.16.52  
Swap usage:   0%  
  
0 packages can be updated.  
0 of these updates are security updates.
```



## Step 3: Installing JDK

```
ubuntu@ip-172-31-16-52: ~  
See "man sudo_root" for details.  
ubuntu@ip-172-31-16-52:~$ whoami  
ubuntu  
ubuntu@ip-172-31-16-52:~$ java  
  
Command 'java' not found, but can be installed with:  
  
sudo apt install default-jre  
sudo apt install openjdk-11-jre-headless  
sudo apt install openjdk-8-jre-headless  
  
ubuntu@ip-172-31-16-52:~$ sudo apt install openjdk-11-jre-headless  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  ca-certificates-java fontconfig-config fonts-dejavu-core java-common  
  libasound2 libasound2-data libavahi-client3 libavahi-common-data  
  libavahi-common3 libcups2 libfontconfig1 libgraphite2-3 libharfbuzz0b  
  libjpeg-turbo8 libjpeg8 liblcms2-2 libnspr4 libnss3 libpcsclite1 libxi6  
  libxrender1 libxtst6 x11-common  
Suggested packages:  
  default-jre libasound2-plugins alsa-utils cups-common liblcms2-utils psscd
```



## Step 4: Updating sudo

```
ubuntu@ip-172-31-16-52: ~  
sing?  
ubuntu@ip-172-31-16-52:~$ sudo apt update  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease  
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [8  
8.7 kB]  
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease  
[74.6 kB]  
Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]  
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packa  
ges [8570 kB]  
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation  
-en [4941 kB]  
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Pac  
kages [151 kB]  
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translati  
on-en [108 kB]  
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 P  
ackages [2191 kB]  
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Transl  
ation-en [430 kB]  
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted  
amd64 Packages [443 kB]  
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted  
Translation-en [59.9 kB]
```

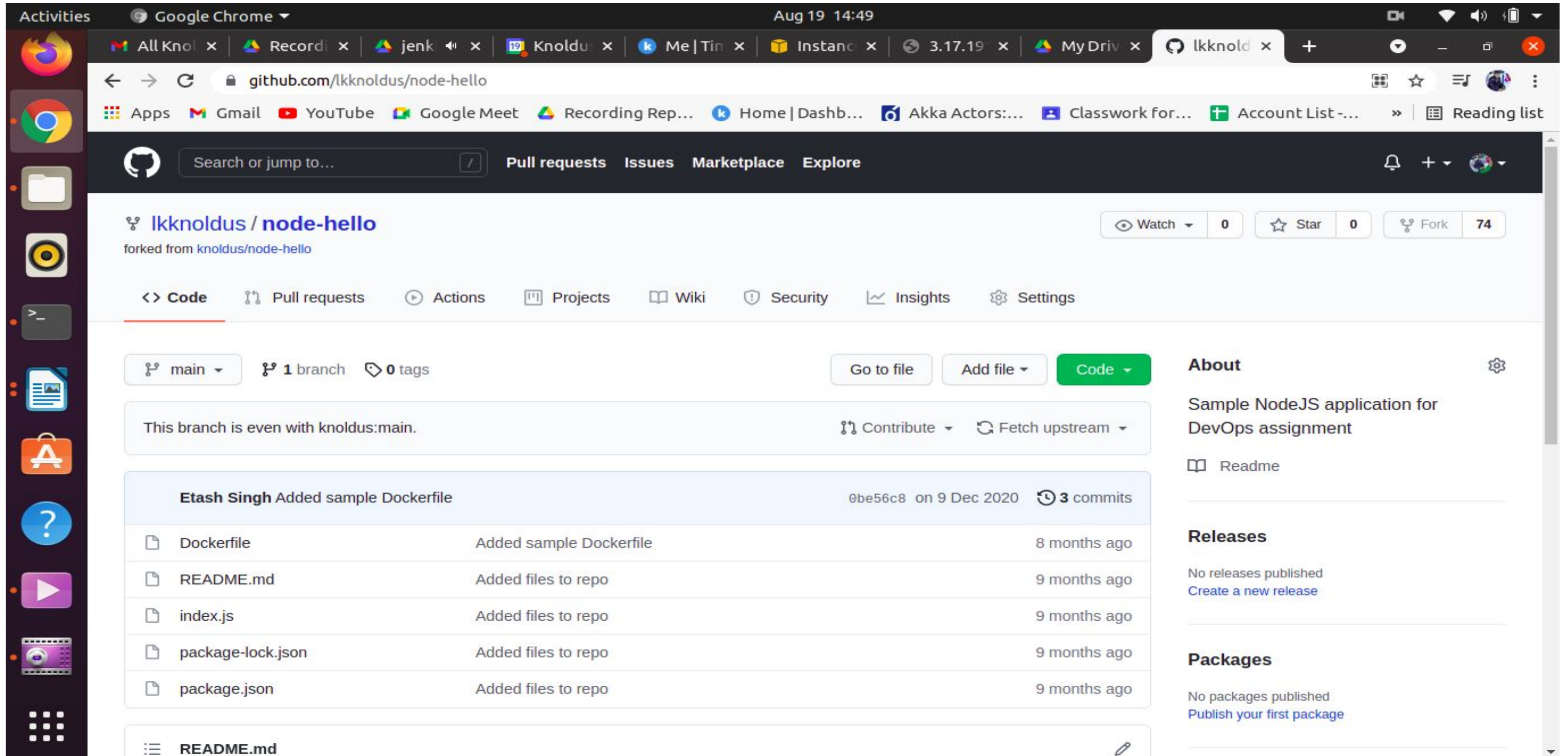


## Step 5: Jenkins Installation

```
ubuntu@ip-172-31-16-52: ~  
done.  
done.  
ubuntu@ip-172-31-16-52:~$ java -version  
openjdk version "11.0.11" 2021-04-20  
OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.18.04)  
OpenJDK 64-Bit Server VM (build 11.0.11+9-Ubuntu-0ubuntu2.18.04, mixed mode, sha  
ring)  
ubuntu@ip-172-31-16-52:~$ jenkins  
jenkins: command not found  
ubuntu@ip-172-31-16-52:~$ wget https://get.jenkins.io/war/2.303/jenkins.war  
--2021-08-19 08:28:46-- https://get.jenkins.io/war/2.303/jenkins.war  
Resolving get.jenkins.io (get.jenkins.io)... 52.167.253.43  
Connecting to get.jenkins.io (get.jenkins.io)|52.167.253.43|:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: https://ftp-nyc.osuosl.org/pub/jenkins/war/2.303/jenkins.war [followin  
g]  
--2021-08-19 08:28:47-- https://ftp-nyc.osuosl.org/pub/jenkins/war/2.303/jenkin  
s.war  
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:20  
0:237::2  
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... conn  
ected.  
HTTP request sent, awaiting response... 200 OK  
Length: 72289550 (69M) [application/x-java-archive]  
Saving to: 'jenkins.war'
```



## Step 6: Fork the node-hello repository



Activities Google Chrome Aug 19 14:49

github.com/lkknoldus/node-hello

Apps Gmail YouTube Google Meet Recording Rep... Home | Dashb... Akka Actors:... Classwork for... Account List -... Reading list

Search or jump to... Pull requests Issues Marketplace Explore

lkknoldus / node-hello  
forked from knoldus/node-hello

Watch 0 Star 0 Fork 74

<> Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

This branch is even with knoldus:main. Contribute Fetch upstream

Etash Singh Added sample Dockerfile		0be56c8 on 9 Dec 2020 3 commits
Dockerfile	Added sample Dockerfile	8 months ago
README.md	Added files to repo	9 months ago
index.js	Added files to repo	9 months ago
package-lock.json	Added files to repo	9 months ago
package.json	Added files to repo	9 months ago

README.md

About  
Sample NodeJS application for DevOps assignment  
Readme

Releases  
No releases published  
Create a new release

Packages  
No packages published  
Publish your first package



## STep 7: changing permissions

```
ubuntu@ip-172-31-16-52: ~  
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:20  
0:237::2  
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... conn  
ected.  
HTTP request sent, awaiting response... 200 OK  
Length: 72289550 (69M) [application/x-java-archive]  
Saving to: 'jenkins.war.1'  
  
jenkins.war.1      100%[=====>] 68.94M  5.32MB/s   in 13s  
  
2021-08-19 09:23:59 (5.29 MB/s) - 'jenkins.war.1' saved [72289550/72289550]  
  
ubuntu@ip-172-31-16-52:~$ jenkins  
jenkins: command not found  
ubuntu@ip-172-31-16-52:~$ ls  
jenkins.war  jenkins.war.1  
ubuntu@ip-172-31-16-52:~$ chmod +x jenkins.war  
ubuntu@ip-172-31-16-52:~$ ls  
jenkins.war  jenkins.war.1  
ubuntu@ip-172-31-16-52:~$ ls -l  
total 141192  
-rwxrwxr-x 1 ubuntu ubuntu 72289550 Jul 22 12:54 jenkins.war  
-rw-rw-r-- 1 ubuntu ubuntu 72289550 Jul 22 12:54 jenkins.war.1  
ubuntu@ip-172-31-16-52:~$
```

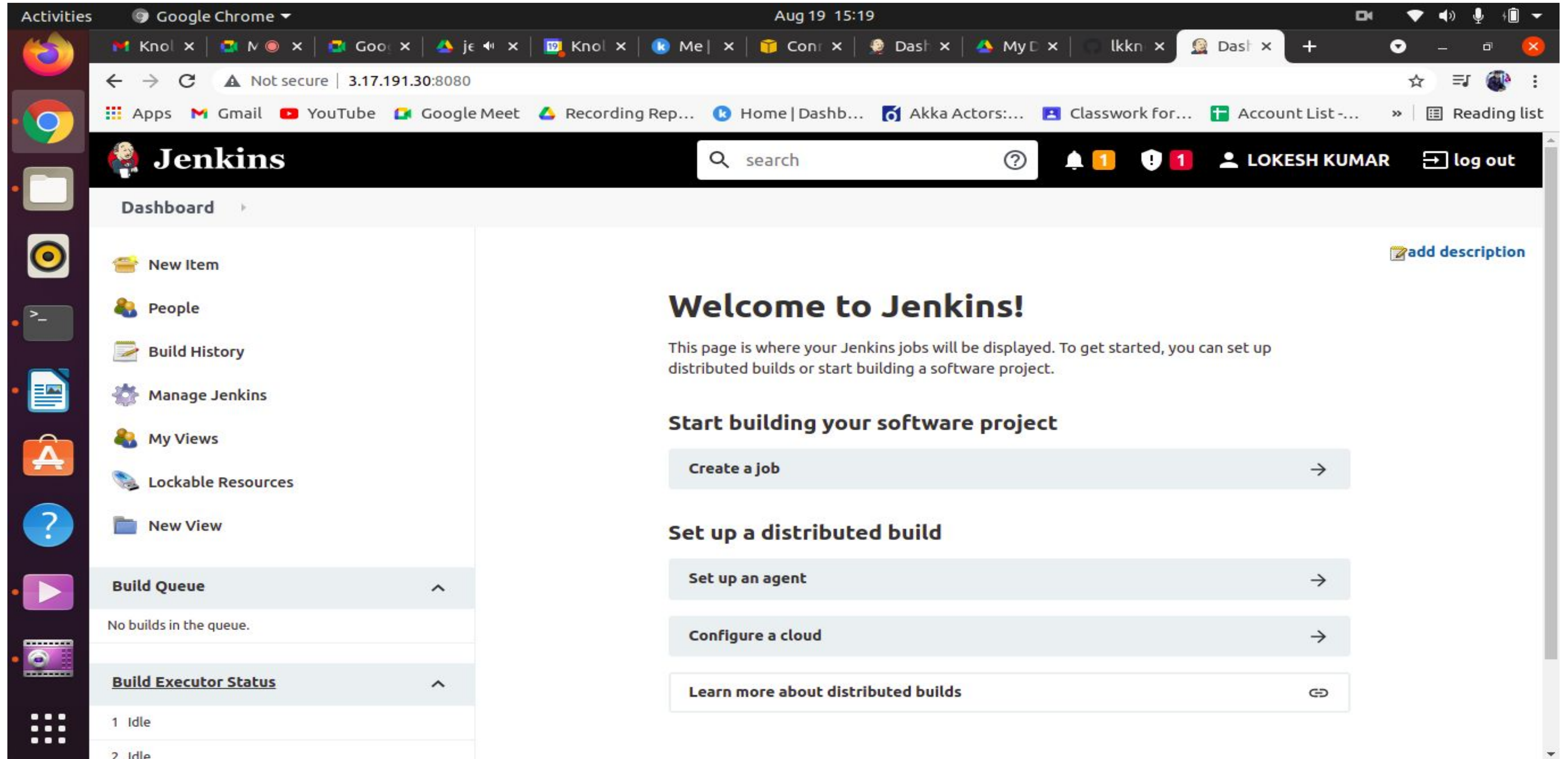


## Step 8: Checking the jenkins status

```
Untitled 2 - LibreOffice Writer
ubuntu@ip-172-31-16-52: ~
8e35fdf259f04b649a4cad21b6ffcc27
This may also be found at: /home/ubuntu/.jenkins/secrets/initialAdminPassword
*****
*****
*****
ubuntu@ip-172-31-16-52:~$ 2021-08-19 09:35:49.874+0000 [id=28] INFO jenkins.
InitReactorRunner$1#onAttained: Completed initialization
2021-08-19 09:35:49.893+0000 [id=22] INFO hudson.WebAppMain$3#run: Jenkins
is fully up and running
ubuntu@ip-172-31-16-52:~$ ps aux | grep jenkins
ubuntu 15774 27.5 24.0 2425696 241404 pts/2 sl 09:35 0:18 java -jar jenkins.war
ubuntu 15835 0.0 0.1 14860 1008 pts/2 S+ 09:36 0:00 grep --color=auto jenkins
ubuntu@ip-172-31-16-52:~$
```



## Step 9: Starting with Jenkins



Activities Google Chrome Aug 19 15:19

Kno x M x Goo x j€ x 19 Kno x k Me x Conr x Dast x MyD x lkkn x Dast x

← → ↻ Not secure | 3.17.191.30:8080

Apps Gmail YouTube Google Meet Recording Rep... Home | Dashb... Akka Actors:... Classwork for... Account List -... Reading list

**Jenkins** search ? 1 1 LOKESH KUMAR log out

**Dashboard**

- New Item
- People
- Build History
- Manage Jenkins
- My Views
- Lockable Resources
- New View

**Build Queue** ^

No builds in the queue.

**Build Executor Status** ^

1 Idle

2 Idle

**Welcome to Jenkins!**

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

**Start building your software project**

Create a job →

**Set up a distributed build**

Set up an agent →

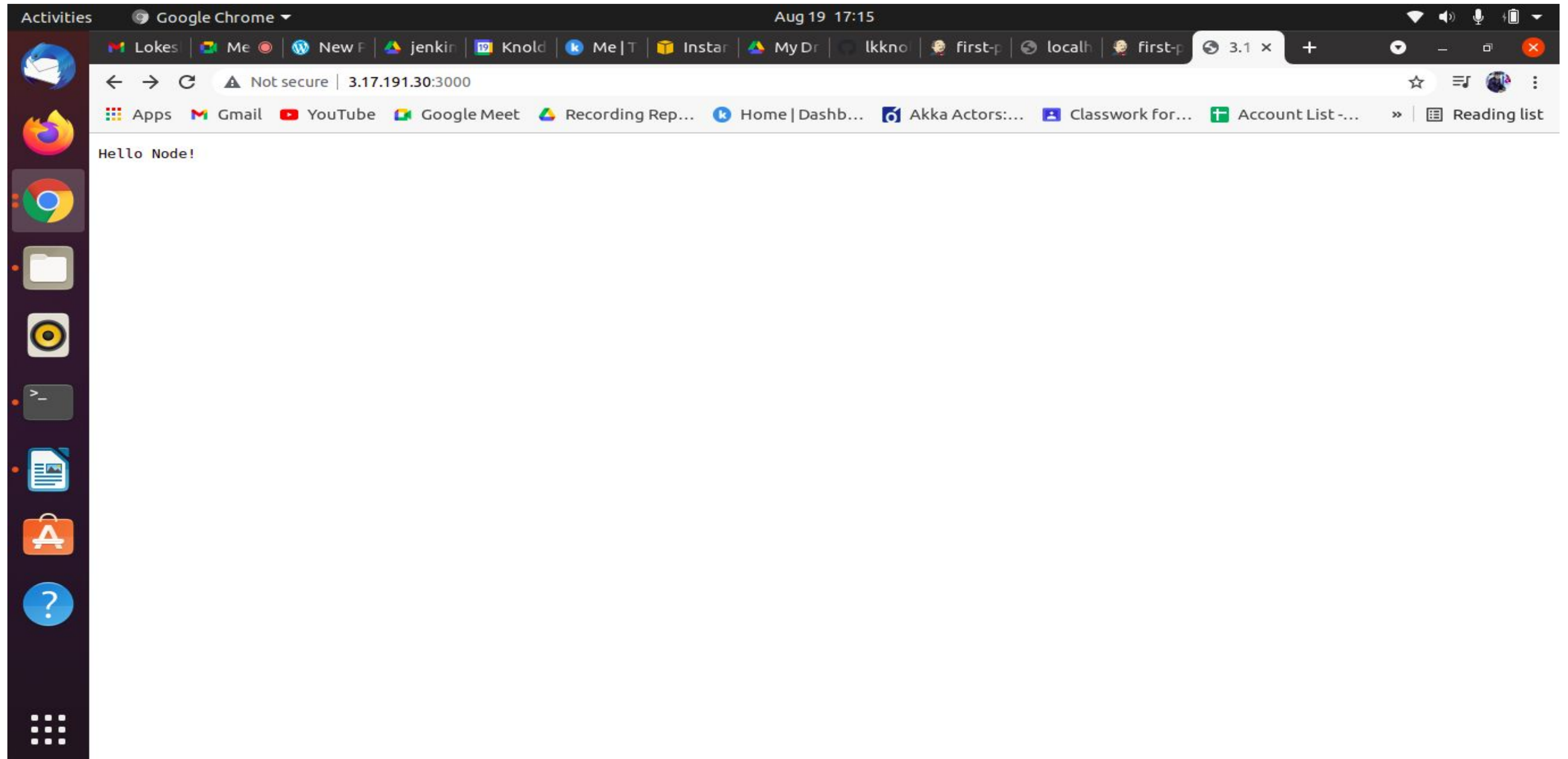
Configure a cloud →

Learn more about distributed builds ↗

add description

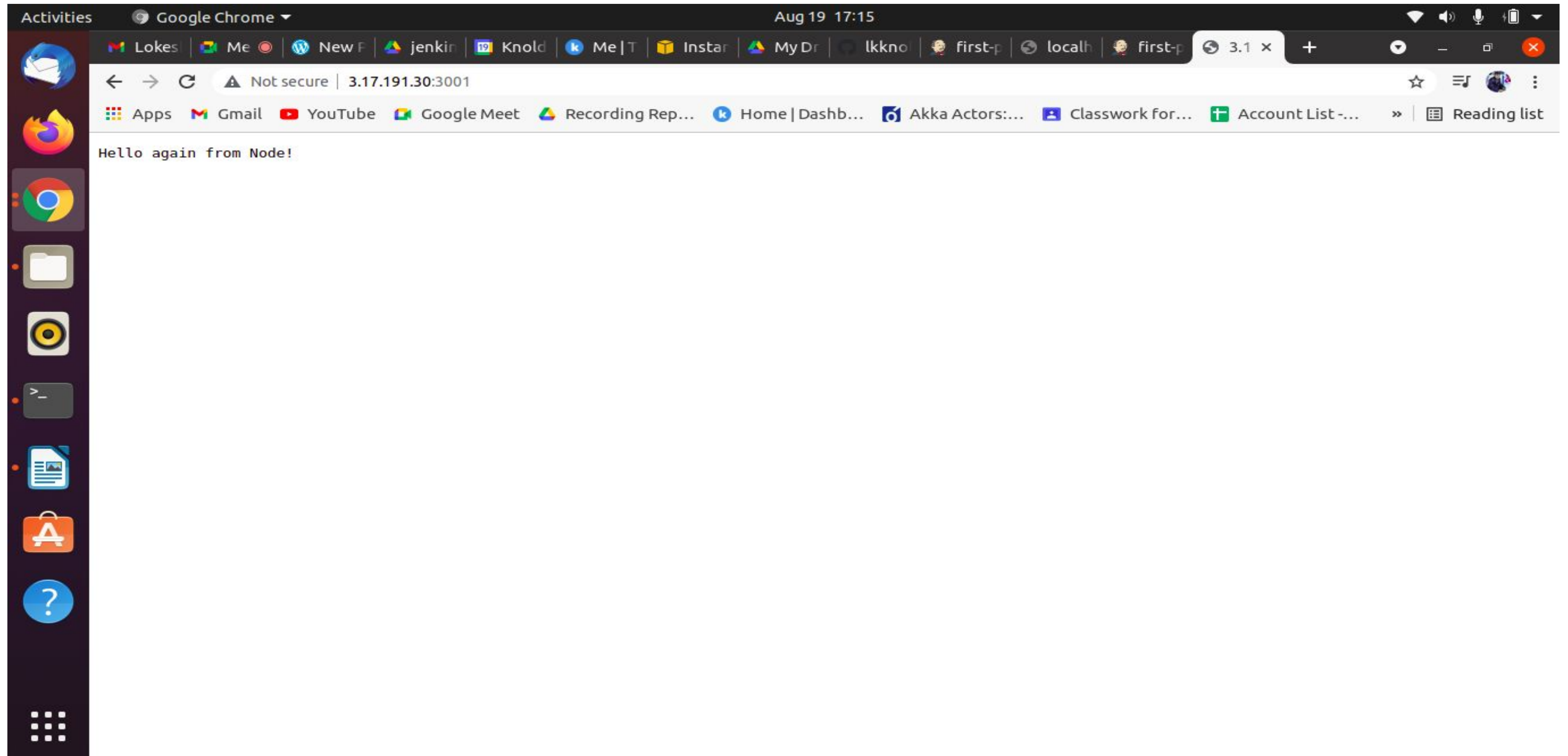


## Step 10: Execution of jenkins at 3000 port





## Step 11: Executing Jenkins at 3001 port





## Step 12 : Installing Docker

```
Activities Terminal ▾ Aug 23 16:59
ubuntu@ip-172-31-16-52: ~

Reading package lists... Done
ubuntu@ip-172-31-16-52:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras docker-scan-plugin libltdl7 pigz
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
Recommended packages:
  slirp4netns
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras
  docker-scan-plugin libltdl7 pigz
0 upgraded, 7 newly installed, 0 to remove and 32 not upgraded.
Need to get 96.7 MB of archives.
After this operation, 407 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 pigz amd64 2.4-1 [57.4 kB]
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libltdl7 amd64 2.4.6-2 [38.8 kB]
Get:3 https://download.docker.com/linux/ubuntu bionic/stable amd64 containerd.io amd64 1.4.9-1 [24.7 MB]
Get:4 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-ce-cli amd64 5:20.10.8~3-0~ubuntu-bionic [38.8 MB]
Get:5 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-ce amd64 5:20.10.8~3-0~ubuntu-bionic [21.2 MB]
Get:6 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-ce-rootless-extras amd64 5:20.10.8~3-0~ubuntu-bionic [7911 kB]
Get:7 https://download.docker.com/linux/ubuntu bionic/stable amd64 docker-scan-plugin amd64 0.8.0~ubuntu-bionic [3888 kB]
Fetched 96.7 MB in 2s (45.5 MB/s)
Selecting previously unselected package pigz.
(Reading database ... 86131 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.4-1_amd64.deb ...
Unpacking pigz (2.4-1) ...
Selecting previously unselected package containerd.io.
Preparing to unpack .../1-containerd.io_1.4.9-1_amd64.deb ...
Unpacking containerd.io (1.4.9-1) ...
Selecting previously unselected package docker-ce-cli.
Preparing to unpack .../2-docker-ce-cli_5%3a20.10.8~3-0~ubuntu-bionic_amd64.deb ...
Unpacking docker-ce-cli (5:20.10.8~3-0~ubuntu-bionic) ...
Selecting previously unselected package docker-ce.
Preparing to unpack .../3-docker-ce_5%3a20.10.8~3-0~ubuntu-bionic_amd64.deb ...
Unpacking docker-ce (5:20.10.8~3-0~ubuntu-bionic) ...
```



```

Activities  Terminal  Aug 24 12:15
ubuntu@ip-172-31-16-52: ~

2021-08-24 06:29:27.277+0000 [id=22] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Jenkins is fully up and running

ubuntu@ip-172-31-16-52:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
NAMES
8803e79c8cdb   lokesh    "docker-entrypoint.s..." 33 minutes ago Up 33 minutes  0.0.0.0:3000-3001->3000-3001/tcp, :::3000-3001->3000-3001/t
cp_keen_hugle
ubuntu@ip-172-31-16-52:~$ docker run -d nginx
4ed62a7eca117c466c843896e0737bc63f58b88ab17084f7a1fb12970f82b914
ubuntu@ip-172-31-16-52:~$ 2021-08-24 06:29:09.875+0000 [id=201] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Started DockerContainer
Watchdog Asynchronous Periodic Work
2021-08-24 06:29:09.880+0000 [id=201] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog has been triggered
2021-08-24 06:29:09.886+0000 [id=201] INFO c.n.j.p.d.DockerContainerWatchdog$Statistics#writeStatisticsToLog: Watchdog Statistics: Number
of overall executions: 0, Executions with processing timeout: 0, Containers removed gracefully: 0, Containers removed with force: 0, Containe
rs removal failed: 0, Nodes removed successfully: 0, Nodes removal failed: 0, Container removal average duration (gracefully): 0 ms, Container
removal average duration (force): 0 ms, Average overall runtime of watchdog: 0 ms, Average runtime of container retrieval: 0 ms
2021-08-24 06:29:09.887+0000 [id=201] INFO c.n.j.p.d.DockerContainerWatchdog#loadNodeMap: We currently have 0 nodes assigned to this Jenk
ins instance, which we will check
2021-08-24 06:29:09.888+0000 [id=201] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog check has been completed
2021-08-24 06:29:09.889+0000 [id=201] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Finished DockerContainerWatchdog Asynchronous P
eriodic Work. 10 ms

ubuntu@ip-172-31-16-52:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS
NAMES
4ed62a7eca11   nginx     "/docker-entrypoint...." 2 minutes ago Up 2 minutes    80/tcp
zen_murdock
8803e79c8cdb   lokesh    "docker-entrypoint.s..." 36 minutes ago Up 36 minutes    0.0.0.0:3000-3001->3000-3001/tcp, :::3000-3001->3000-3001/t
cp_keen_hugle
ubuntu@ip-172-31-16-52:~$ 2021-08-24 06:34:09.875+0000 [id=279] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Started DockerContainer
Watchdog Asynchronous Periodic Work
2021-08-24 06:34:09.880+0000 [id=279] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog has been triggered
2021-08-24 06:34:09.881+0000 [id=279] INFO c.n.j.p.d.DockerContainerWatchdog$Statistics#writeStatisticsToLog: Watchdog Statistics: Number
of overall executions: 1, Executions with processing timeout: 0, Containers removed gracefully: 0, Containers removed with force: 0, Containe
rs removal failed: 0, Nodes removed successfully: 0, Nodes removal failed: 0, Container removal average duration (gracefully): 0 ms, Container
removal average duration (force): 0 ms, Average overall runtime of watchdog: 1 ms, Average runtime of container retrieval: 0 ms
2021-08-24 06:34:09.881+0000 [id=279] INFO c.n.j.p.d.DockerContainerWatchdog#loadNodeMap: We currently have 0 nodes assigned to this Jenk
ins instance, which we will check
2021-08-24 06:34:09.881+0000 [id=279] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog check has been completed
  
```



## Step 13: Pruning Docker

```
Activities Terminal ▾ Aug 24 12:15
ubuntu@ip-172-31-16-52: ~

PM: command not found
ubuntu@ip-172-31-16-52:~$ docker system prune
WARNING! This will remove:
- all stopped containers
- all networks not used by at least one container
- all dangling images
- all dangling build cache

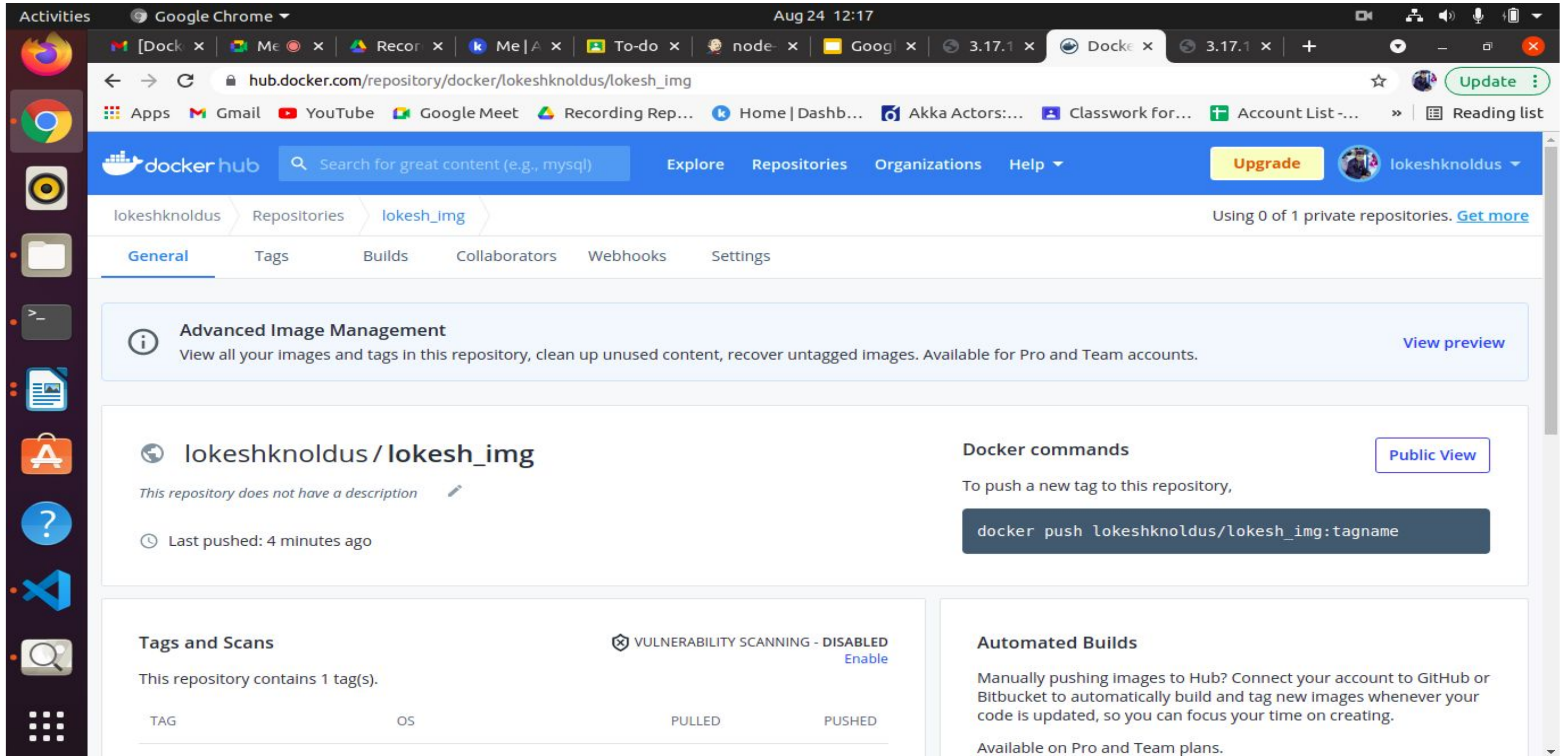
Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
ubuntu@ip-172-31-16-52:~$ 2021-08-24 06:37:41.135+0000 [id=298] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Started Periodic background build discarder
2021-08-24 06:37:41.140+0000 [id=298] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Finished Periodic background build discarder. 5 ms

ubuntu@ip-172-31-16-52:~$ curl localhost:3001
curl: (7) Failed to connect to localhost port 3001: Connection refused
ubuntu@ip-172-31-16-52:~$ 2021-08-24 06:39:09.875+0000 [id=351] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Started DockerContainer Watchdog Asynchronous Periodic Work
2021-08-24 06:39:09.878+0000 [id=351] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog has been triggered
2021-08-24 06:39:09.878+0000 [id=351] INFO c.n.j.p.d.DockerContainerWatchdog$Statistics#writeStatisticsToLog: Watchdog Statistics: Number of overall executions: 2, Executions with processing timeout: 0, Containers removed gracefully: 0, Containers removed with force: 0, Containers removal failed: 0, Nodes removed successfully: 0, Nodes removal failed: 0, Container removal average duration (gracefully): 0 ms, Container removal average duration (force): 0 ms, Average overall runtime of watchdog: 0 ms, Average runtime of container retrieval: 0 ms
2021-08-24 06:39:09.878+0000 [id=351] INFO c.n.j.p.d.DockerContainerWatchdog#loadNodeMap: We currently have 0 nodes assigned to this Jenkins instance, which we will check
2021-08-24 06:39:09.879+0000 [id=351] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog check has been completed
2021-08-24 06:39:09.879+0000 [id=351] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Finished DockerContainerWatchdog Asynchronous Periodic Work. 3 ms

ubuntu@ip-172-31-16-52:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
ubuntu@ip-172-31-16-52:~$ docker run -d nginx
aa50bd583bdb33dfc3561d3bb48abca7ddc11dff744d570cc7fb0939c62be82c
ubuntu@ip-172-31-16-52:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
aa50bd583bdb   nginx     "/docker-entrypoint. ...." 3 seconds ago  Up 3 seconds  80/tcp       suspicious_gould
ubuntu@ip-172-31-16-52:~$ docker login
```



Step 14 : Create profile at DockerHub and there create a repo.



The screenshot shows a web browser window with the DockerHub repository page for `lokeshknoldus/lokesh_img`. The browser's address bar shows the URL `hub.docker.com/repository/docker/lokeshknoldus/lokesh_img`. The DockerHub interface includes a search bar, navigation links (Explore, Repositories, Organizations, Help), and a user profile for `lokeshknoldus`. The repository page has tabs for General, Tags, Builds, Collaborators, Webhooks, and Settings. The General tab is active, showing an "Advanced Image Management" section, the repository name `lokeshknoldus / lokesh_img` with a note that it lacks a description, and a "Last pushed: 4 minutes ago" timestamp. On the right, the "Docker commands" section provides a command to push a new tag: `docker push lokeshknoldus/lokesh_img:tagname`. At the bottom, the "Tags and Scans" section indicates that the repository contains 1 tag(s) and shows a table with columns for TAG, OS, PULLED, and PUSHED. The "Automated Builds" section is also visible, explaining how to connect the repository to GitHub or Bitbucket for automatic builds.

Activities Google Chrome Aug 24 12:17

hub.docker.com/repository/docker/lokeshknoldus/lokesh\_img

docker hub Search for great content (e.g., mysql) Explore Repositories Organizations Help Upgrade lokeshknoldus

lokeshknoldus Repositories lokesh\_img Using 0 of 1 private repositories. [Get more](#)

General Tags Builds Collaborators Webhooks Settings

**Advanced Image Management**  
View all your images and tags in this repository, clean up unused content, recover untagged images. Available for Pro and Team accounts. [View preview](#)

**lokeshknoldus / lokesh\_img**  
*This repository does not have a description*  
Last pushed: 4 minutes ago

**Docker commands** [Public View](#)  
To push a new tag to this repository,  
`docker push lokeshknoldus/lokesh_img:tagname`

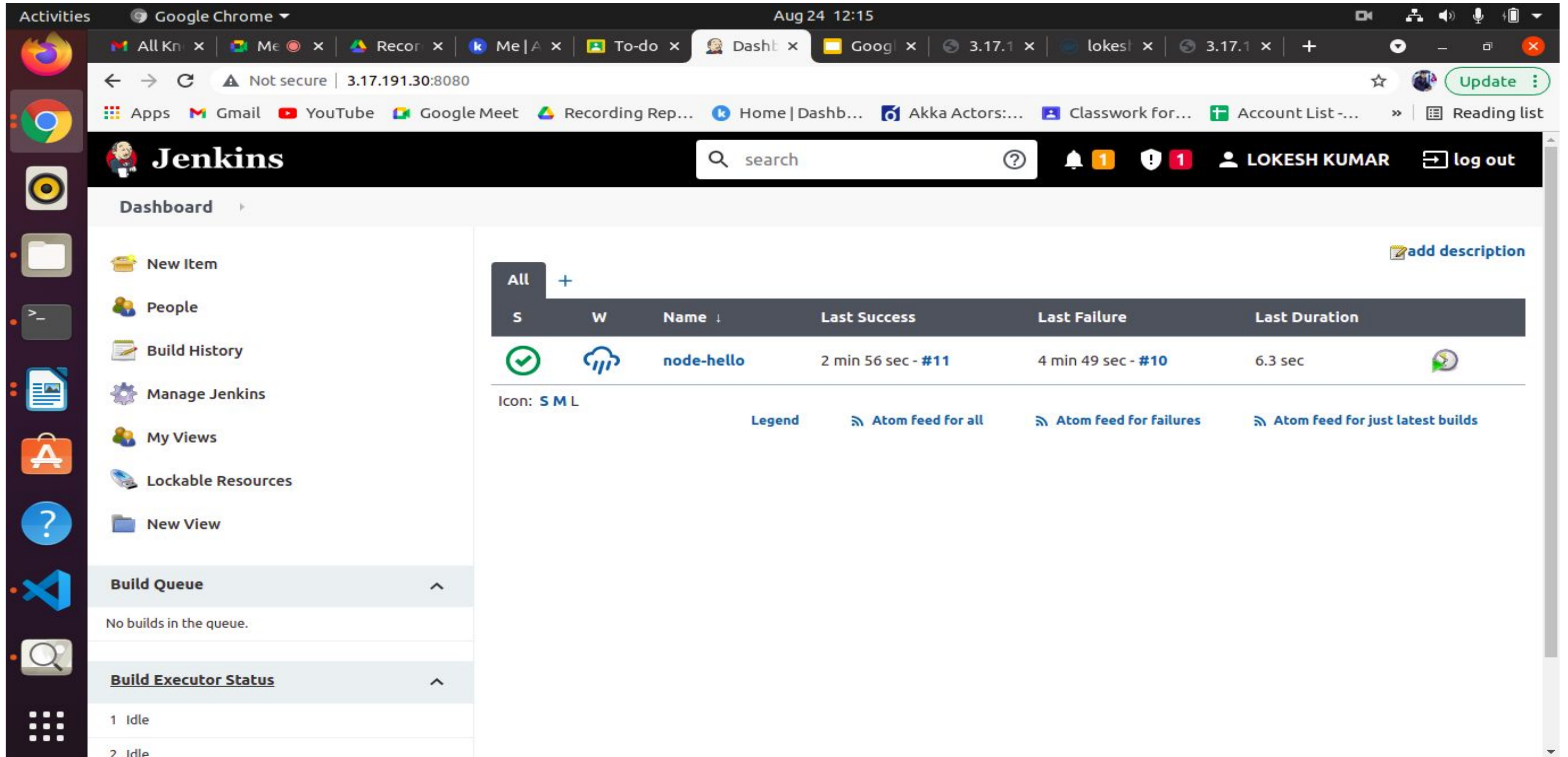
**Tags and Scans** **VULNERABILITY SCANNING - DISABLED** [Enable](#)  
This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
-----	----	--------	--------

**Automated Builds**  
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.  
Available on Pro and Team plans.



## Step 15 : Configure the Jenkins pipeline



Activities Google Chrome Aug 24 12:15

Not secure | 3.17.191.30:8080

Jenkins

search

LOKESH KUMAR log out

Dashboard

New Item

People

Build History

Manage Jenkins

My Views

Lockable Resources

New View

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

add description

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	🌩	node-hello	2 min 56 sec - #11	4 min 49 sec - #10	6.3 sec

Icon: S M L

Legend

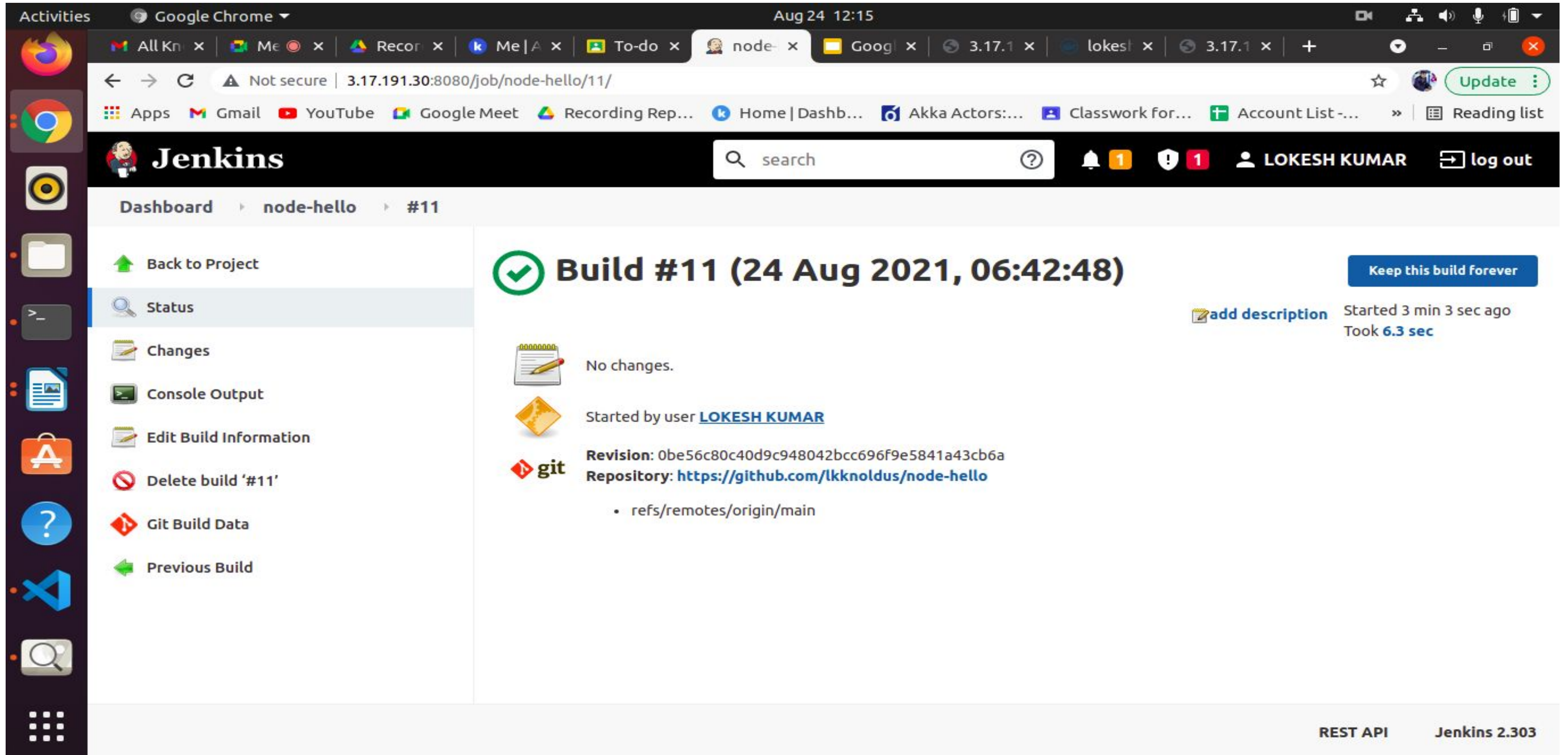
Atom feed for all

Atom feed for failures

Atom feed for just latest builds



## Step 16 : Build it



The screenshot shows the Jenkins web interface in a Google Chrome browser. The address bar indicates the URL is `3.17.191.30:8080/job/node-hello/11/`. The Jenkins header shows the user **LOKESH KUMAR** is logged in, with a search bar and notification icons. The main content area displays the details for **Build #11 (24 Aug 2021, 06:42:48)**, which has a green checkmark icon indicating success. The build status is "No changes." and it was started by user **LOKESH KUMAR**. The build revision is `0be56c80c40d9c948042bcc696f9e5841a43cb6a` from the repository `https://github.com/lkknoldus/node-hello`, specifically the `refs/remotes/origin/main` branch. The build took 6.3 seconds and started 3 minutes and 3 seconds ago. A button labeled "Keep this build forever" is visible. The left sidebar contains links to "Back to Project", "Status", "Changes", "Console Output", "Edit Build Information", "Delete build '#11'", "Git Build Data", and "Previous Build". The bottom right corner of the interface shows "REST API" and "Jenkins 2.303".



## Step 17 : Check Build status

Activities Google Chrome Aug 24 12:16

[Dock x] Me x Recorder x Me | A x To-do x node x Goog x 3.17.1 x lokes x 3.17.1 x +

Not secure | 3.17.191.30:8080/job/node-hello/11/console ☆ Update ⋮

Apps Gmail YouTube Google Meet Recording Rep... Home | Dashb... Akka Actors:... Classwork for... Account List -... Reading list

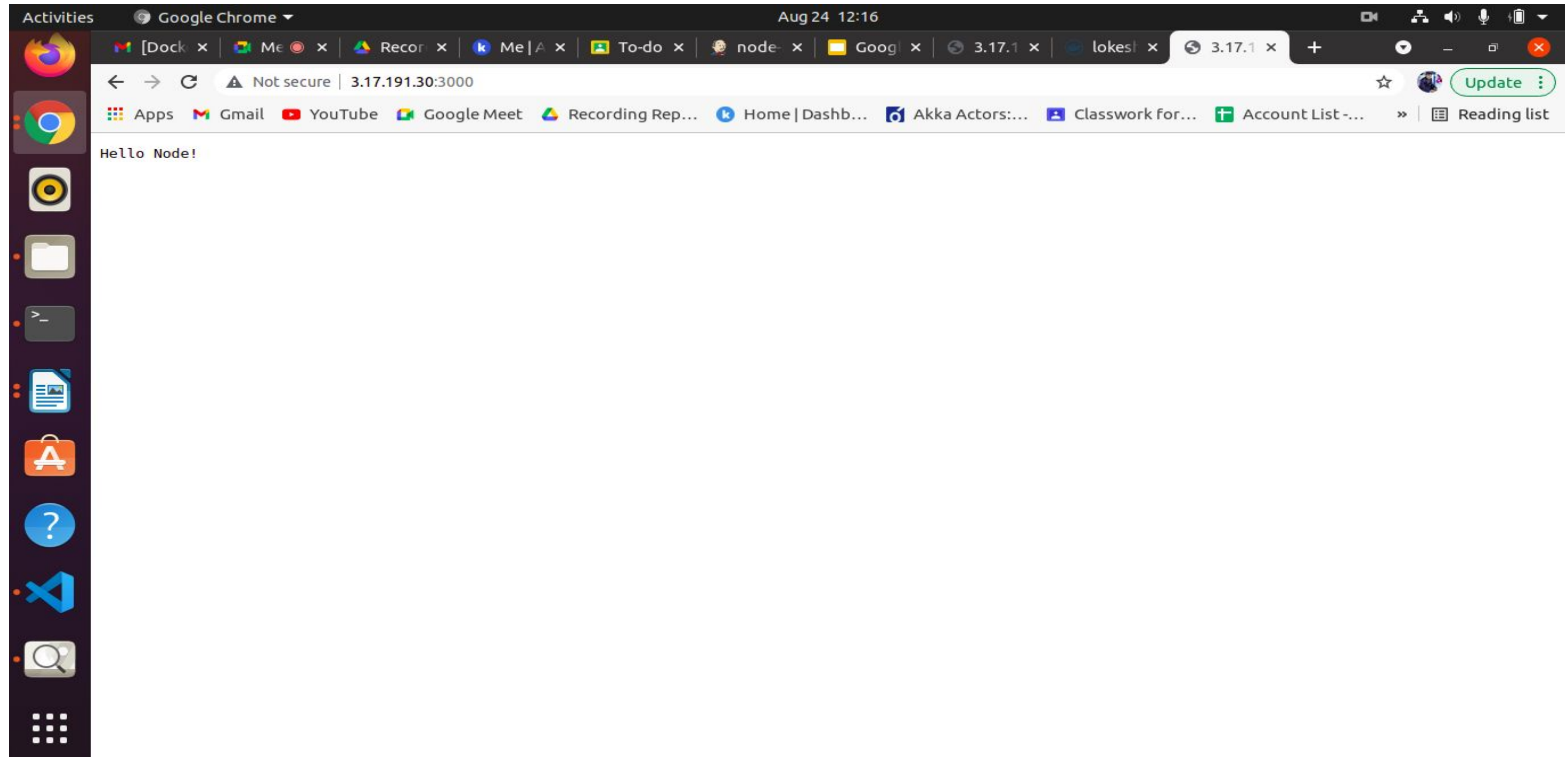
Dashboard ▶ node-hello ▶ #11

```
-----
015f31f2f9e4: Mounted from library/node
26fd723d2288: Mounted from library/node
b9ed41bad3b9: Mounted from library/node
dc187589e0c1: Pushed
54045e4b16aa: Pushed
5cb0af444f72: Mounted from library/node
3de8ff3b2488: Pushed
62fe18738c09: Pushed
953b9481bddb: Mounted from library/node
dea274feff1a: Mounted from library/node
afce7e9043bf: Mounted from library/node
deeb988a5ea8: Mounted from library/node
1bf665ea9709: Mounted from library/node
latest: digest: sha256:c5160168cd1776c1c284038e675c6dd2323de2d5eefcd2b34d4efe54fd3db420 size: 3045
+ docker pull lokeshknoldus/lokesh_img
Using default tag: latest
latest: Pulling from lokeshknoldus/lokesh_img
Digest: sha256:c5160168cd1776c1c284038e675c6dd2323de2d5eefcd2b34d4efe54fd3db420
Status: Image is up to date for lokeshknoldus/lokesh_img:latest
docker.io/lokeshknoldus/lokesh_img:latest
+ docker ps -q
+ docker stop aa50bd583bdb
aa50bd583bdb
+ docker run -d -p 3000-3001:3000-3001 lokeshknoldus/lokesh_img
9b022bd3ad84f8a6b28bfb4f6eed23143ce37c855b8e0cd72a171312534ad57d
Finished: SUCCESS
```

REST API Jenkins 2.303

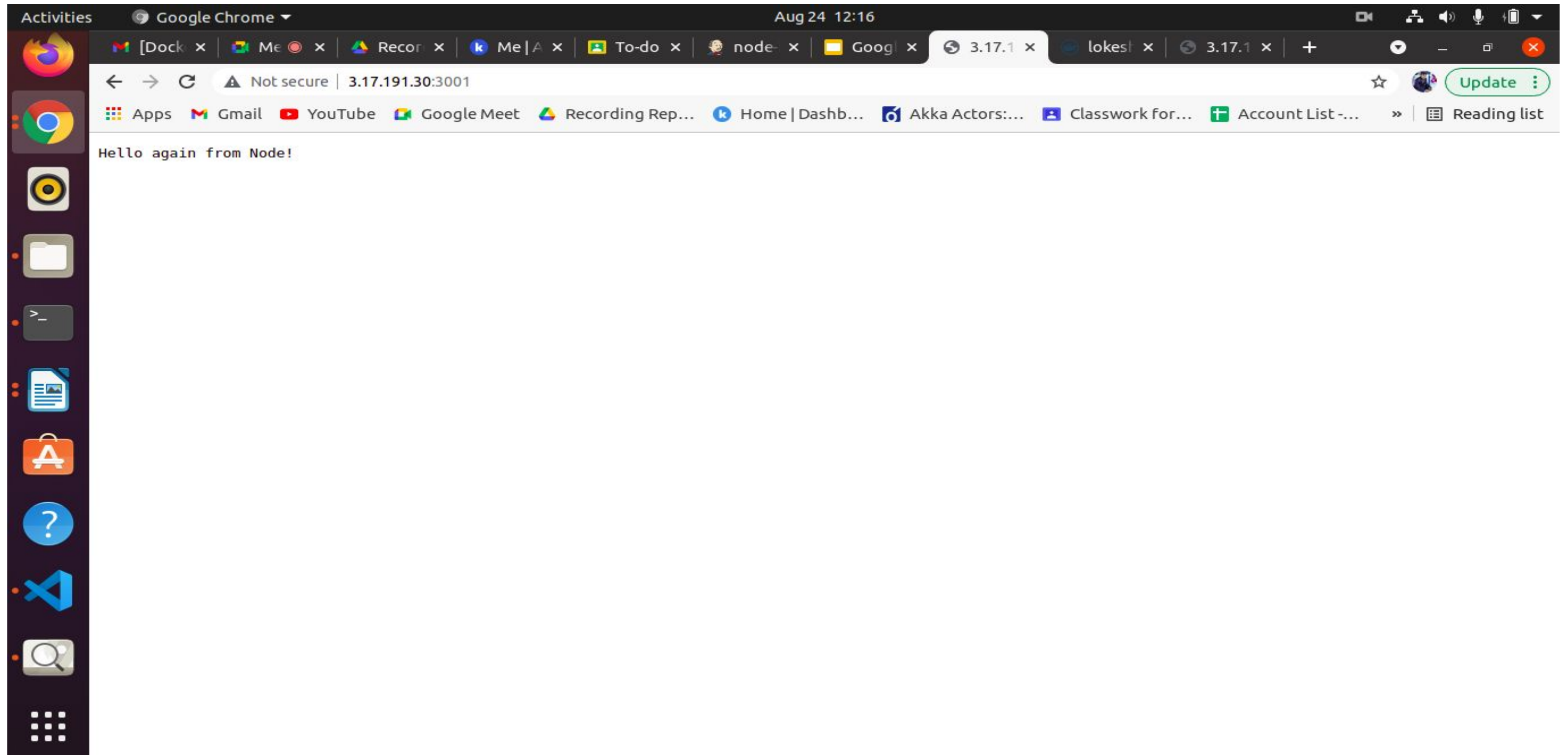


Step 18 : Finally Execute the jenkins at 3000 port  
url: <http://3.17.191.30:3000/>





jenkins at port 30001  
url: http://3.17.191.30:30001/





# Thank You !

Get in touch with us:

Lorem Studio, Lord Building  
D4456, LA, USA

