

Docker Assignment

*Submitted by:Adesh kumar
shukla
Employee Id :1601*

Creating instance in AWS

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'adesh_8299'. The left sidebar contains a navigation menu with categories like EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, and LOAD BALANCING. The main content area shows the 'Instances' page with a table of running instances. One instance, 'jenkinsfirstpr...', is listed with ID 'i-0bc88b550cdf0d350' and is in a 'running' state. Below the table, the details for this specific instance are shown, including its description, status checks, monitoring, and tags.

Instance Details:

Property	Value
Instance ID	i-0bc88b550cdf0d350
Instance state	running
Instance type	t2.micro
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS	ip-172-31-11-76.us-east-2.compute.internal
Private IPs	172.31.11.76
Secondary private IPs	
Public DNS (IPv4)	ec2-3-140-196-135.us-east-2.compute.amazonaws.com
IPv4 Public IP	3.140.196.135
IPv6 IPs	-
Elastic IPs	
Availability zone	us-east-2a
Security groups	launch-wizard-1, view inbound rules, view outbound rules
Scheduled events	No scheduled events

Setting inbound rules in AWS

Activities Google Chrome Aug 24 14:08

Docker Hub EC2 Management Console adesh0299/node-hello:5

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#ModifyInboundSecurityGroupRules:securityGroupId=sg-011bee9dd051a239

Apps Gmail YouTube Maps classroom calendar keka Reading list

aws Services Search for services, features, marketplace products, and docs [Alt+S]

sg-011bee9dd051a239 - launch-wizard-1 Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
sgr-054e0f42467a3add7	Custom TCP	TCP	8080	Custom	0.0.0.0/0	Delete
sg-0a1c44fd52482476d	Custom TCP	TCP	3000	Custom	0.0.0.0/0	Delete
sg-04a188b030d5c2c0a	SSH	TCP	22	Custom	0.0.0.0/0	Delete
sg-096ab69e30f99574c	Custom TCP	TCP	3001	Custom	0.0.0.0/0	Delete
sg-09d0677960b996921	Custom TCP	TCP	8080	Custom	0.0.0.0/0	Delete

Add rule

Cancel Preview changes Save rules

Feedback English (US) © 2008 - 2021 Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Editing Security Inbound Rules

Activities Google Chrome Aug 24 14:14

Docker Hub Instances | EC2 Manager: adesh299/node-hello: 5... x +

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

Apps Gmail YouTube Maps classroom calendar Geka

Services Search for services, features, marketplace products, and docs [All+5]

New EC2 Experience Launch Instance Connect Actions

EC2 Dashboard Events Tags Limits INSTANCES Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations IMAGES AMIs ELASTIC BLOCK STORE Volumes Snapshots Lifecycle Manager NETWORK & SECURITY Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces LOAD BALANCING Load Balancers Target Groups AUTO SCALING

Filter by tags and attributes or search by keyword 1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring
jenkinsfirstpr...	i-0bc88b550cdf0d350	t2.micro	us-east-2a	running	2/2 checks ...	None	ec2-3-140-196-135.us-...	3.140.196.135	-	demo-pair	disabled

Instance: i-0bc88b550cdf0d350 (jenkinsfirstproject) Public DNS: ec2-3-140-196-135.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-0bc88b550cdf0d350	Public DNS (IPv4)	ec2-3-140-196-135.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	3.140.196.135
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	-
Private DNS	ip-172-31-11-78.us-east-2.compute.internal	Availability zone	us-east-2a
Private IPs	172.31.11.78	Security groups	launch wizard view inbound rules view outbound rules
Secondary private IPs	-	Scheduled events	No scheduled events
VPC ID	vpc-6c0a6407	AMI ID	ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20210415 (ami-0e9064170c32bde54)
Platform	Ubuntu	Subnet ID	subnet-3b061050
Platform details	Linux/UNIX	Network interfaces	eth0
Usage operation	RunInstances	IAM role	-
SourceDestCheck	True	Key pair name	demo-pair
T2/T3 Unlimited	Disabled	Owner	\$079680105E7
EBS-optimized	False	Launch time	August 20, 2021 at 2:26:23 PM UTC+5:30 (95 hours)
Root device type	ebs	Termination protection	False
Root device	dev/sda1	Lifecycle	normal
Block devices	nvme0n1	Monitoring	basic
Elastic Graphics ID	-	Alarm status	None
Elastic Inference accelerator ID	-	Kernel ID	-
Capacity reservation	-	RAM disk ID	-
Capacity Reservation Settings	OptIn	Mfn Enclaves	Disabled
Outpost Am	-	Placement group	-

Feedback English (US)

© 2021 Amazon Internet Services Private Ltd. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Running AWS and Jenkins through terminal

```
Activities Terminal Aug 24 14:05 ubuntu@ip-172-31-11-76: -
knoeludus@knoeludus-Vostro-3590:~/Downloads$ ssh -t "demo-pair.pem" ubuntu@ec2-3-140-196-135.us-east-2.compute.amazonaws.com
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1055-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System Information as of Tue Aug 24 08:31:19 UTC 2021

System load:  0.0          Processes:           101
Usage of /:   51.2% of 7.69GB Users logged in:          0
Memory usage: 29%         IP address for eth0: 172.31.11.76
Swap usage:  0K           IP address for docker0: 172.17.0.1

 * Super-optimized for small spaces - read how we shrank the memory
   footprint of MicroK8s to make it the smallest full K8s around.
   https://ubuntu.com/blog/microk8s-memory-optimisation

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

33 packages can be updated.
1 of these updates is a security update.
To see these additional updates run: apt list --upgradable

New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Aug 24 07:42:19 2021 from 47.15.6.66
ubuntu@ip-172-31-11-76:~$ java -jar jenkins.war &
[1] 1818
ubuntu@ip-172-31-11-76:~$ Running from: /home/ubuntu/jenkins.war
webroot: /usr/share/jenkins
2021-08-24 08:31:26.058+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @1309ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-08-24 08:31:26.858+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2021-08-24 08:31:26.922+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2021-08-24 08:31:27.080+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526000ecfa3af7f1a27ef3a288e2bef7ea9dd7e0; jvm 11.0.11
1-9-Ubuntu-Bubuntu2.18.04
2021-08-24 08:31:27.981+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2021-08-24 08:31:28.094+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2021-08-24 08:31:28.103+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No sessionScavenger set, using defaults
2021-08-24 08:31:28.105+0000 [id=1] INFO o.e.j.s.s.session.HouseKeeper#startScavenging: node0 scavenging every 60000ms
2021-08-24 08:31:29.159+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /home/ubuntu/.jenkins found at: /usr/share/jenkins
2021-08-24 08:31:29.591+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.061d9efe0(Jenkins v2.307.1, file:///home/ubuntu/.jenkins/war/AVAILABLE[/home/ubuntu/.jenkins/war])
2021-08-24 08:31:29.643+0000 [id=1] INFO o.e.j.s.s.AbstractConnector#doStart: Started ServerConnector@19dce7c2(HTTP/1.1, (http/1.1))((0.0.0.0:8080))
2021-08-24 08:31:29.647+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started @4359ms
2021-08-24 08:31:29.649+0000 [id=23] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2021-08-24 08:31:30.240+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2021-08-24 08:31:31.220+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$2 (file:/home/ubuntu/.jenkins/war/WEB-INF/lib/guice-4.0.jar) to method java.lang.ClassLoader.defineClass(java.lan
g.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$2
```



```
Activities Terminal Aug 24 14:05 ubuntu@plp-172-31-11-76: ~
1 of these updates is a security update.
To see these additional updates run: apt list --upgradable

New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Aug 24 07:42:19 2021 from 47.15.6.66
ubuntu@plp-172-31-11-76:~$ java -jar jenkins.war &
[1] 1818
ubuntu@plp-172-31-11-76:~$ Running from: /home/ubuntu/jenkins.war
webroot: /user/home/.jenkins
2021-08-24 08:31:26.658+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @1369ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-08-24 08:31:26.858+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2021-08-24 08:31:26.922+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2021-08-24 08:31:27.080+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a27ef3a288e2bef7ea9dd7e8; jvm 11.0.1
1+9-Ubuntu-0ubuntu2.18.04
2021-08-24 08:31:27.981+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2021-08-24 08:31:28.094+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2021-08-24 08:31:28.103+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2021-08-24 08:31:28.105+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every 60000ms
2021-08-24 08:31:29.159+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /home/ubuntu/.jenkins found at: /user/home/.jenkins
2021-08-24 08:31:29.591+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.061d9efeb[Jenkins v2.307.1, file:///home/ubuntu/.jenkins/war/, AVAILABLE]{/home/ubuntu/.jenkins/war}
2021-08-24 08:31:29.643+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@19dc67c2(HTTP/1.1, (http/1.1)){0.0.0.0:8080}
2021-08-24 08:31:29.647+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started @4359ms
2021-08-24 08:31:29.649+0000 [id=23] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2021-08-24 08:31:30.240+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2021-08-24 08:31:31.228+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$2 (file:/home/ubuntu/.jenkins/war/WEB-INF/lib/guice-4.0.jar) to method java.lang.ClassLoader.defineClass(java.lan
g.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$2
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2021-08-24 08:31:41.706+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2021-08-24 08:31:41.831+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2021-08-24 08:31:43.142+0000 [id=29] WARNING o.j.p.d.DockerBuilder$DescriptorImpl#<init>: Docker URL is not set, docker client won't be initialized
2021-08-24 08:31:44.832+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2021-08-24 08:31:45.015+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2021-08-24 08:31:45.050+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2021-08-24 08:31:45.360+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2021-08-24 08:31:45.171+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2021-08-24 08:31:45.358+0000 [id=43] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Started Download metadata
2021-08-24 08:31:45.359+0000 [id=43] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Finished Download metadata. 0 ms
2021-08-24 08:31:45.425+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2021-08-24 08:31:45.448+0000 [id=22] INFO hudson.WebAppMain$3#run: Jenkins is fully up and running
2021-08-24 08:32:07.014+0000 [id=58] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Started DockerContainerWatchdog Asynchronous Periodic Work
2021-08-24 08:32:07.029+0000 [id=58] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog has been triggered
2021-08-24 08:32:07.024+0000 [id=58] INFO c.n.j.p.d.DockerContainerWatchdog$Statistics#writeStatisticsToLog: Watchdog Statistics: Number of overall executions: 0, Executions with processing timeout
: 0, Containers removed gracefully: 0, Containers removed with force: 0, Containers removal failed: 0, Nodes removed successfully: 0, Nodes removal failed: 0, Container removal average duration (graceful
ly): 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 08:32:07.024+0000 [id=58] 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 08:32:07.025+0000 [id=58] INFO c.n.j.p.d.DockerContainerWatchdog#execute: Docker Container Watchdog check has been completed
2021-08-24 08:32:07.027+0000 [id=58] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Finished DockerContainerWatchdog Asynchronous Periodic Work. 11 ms
ubuntu@plp-172-31-11-76:~$
```

Adding Plugins

Activities Google Chrome Aug 24 14:04

Update Center [Jenkins] 3.140.196.135:8080/pluginManager/installed

Gmail YouTube Maps classroom calendar keka

Dashboard Plugin Manager

<input checked="" type="checkbox"/>	Branch API Plugin This plugin provides an API for multiple branch based projects.	2.6.5	Uninstall
<input checked="" type="checkbox"/>	Build Timeout This plugin allows builds to be automatically terminated after the specified amount of time has elapsed. This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.	1.20	Uninstall
<input checked="" type="checkbox"/>	Caffeine API Plugin Caffeine api plugin for use by other Jenkins plugins.	2.9.2-29.v717a0c953ff3	Uninstall
<input checked="" type="checkbox"/>	Checks API plugin This plugin defines an API for Jenkins to publish checks to SCM platforms.	1.7.2	Uninstall
<input checked="" type="checkbox"/>	CloudBees Docker Build and Publish plugin This plugin enables building Dockerfile based projects, as well as publishing of the built images/repos to the docker registry.	1.3.3	Uninstall
<input checked="" type="checkbox"/>	Command Agent Launcher Plugin Allows agents to be launched using a specified command.	1.6	Uninstall
<input checked="" type="checkbox"/>	Config File Provider Plugin Ability to provide configuration files (e.g. settings.xml for maven, XML, groovy, custom files,...) loaded through the UI which will be copied to the job workspace. This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.	3.8.1	Uninstall
<input checked="" type="checkbox"/>	Credentials Binding Plugin Allows credentials to be bound to environment variables for use from miscellaneous build steps.	1.27	Uninstall
<input checked="" type="checkbox"/>	Credentials Plugin This plugin allows you to store credentials in Jenkins.	2.5	Uninstall
<input checked="" type="checkbox"/>	Display URL API Provides the DisplayURLProvider extension point to provide alternate URLs for use in notifications.	2.3.5	Uninstall
<input checked="" type="checkbox"/>	Docker API Plugin This plugin provides docker-java API for other plugins. This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.	3.1.5.2	Uninstall

Fork node-hello

The screenshot shows a web browser window displaying the GitHub repository page for 'adesh8299/node-hello'. The browser's address bar shows the URL 'github.com/adesh8299/node-hello'. The repository page includes a navigation bar with links for 'Code', 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The main content area shows the repository's file structure, including 'Dockerfile', 'README.md', 'index.js', 'package-lock.json', and 'package.json'. The 'README.md' file is selected, displaying the text 'Node Hello World' and instructions for running the application. The right sidebar contains sections for 'About', 'Releases', 'Packages', and 'Languages'.

Activities Google Chrome Aug 24 14:04

Docker Hub Instances | EC2 Manager adesh8299/node-hello

github.com/adesh8299/node-hello

Apps Gmail YouTube Maps classrooms calendar leka

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

adesh8299 / node-hello

forked from knoldus/node-hello

Watch 0 Star 0 Fork 113

Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

This branch is 1 commit ahead of knoldus:main.

Contribute Fetch upstream

adesh8299 Update README.md 85290c5 yesterday 4 commits

Dockerfile	Added sample Dockerfile	9 months ago
README.md	Update README.md	yesterday
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

Node Hello World

Simple node.js app that servers "hello world"

Great for testing simple deployments to the cloud

Create a .tgz file

```
npm pack
```

Run It

About

Sample NodeJS application for DevOps assignment

Readme

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Languages

JavaScript 54.1% Dockerfile 35.9%

Pipeline general configuration

The screenshot shows the Jenkins web interface in a Google Chrome browser. The address bar indicates the URL is `3.140.196.135:8080/job/dockerassignment/configure`. The page title is "Jenkins". The breadcrumb navigation shows "Dashboard" > "dockerassignment".

The configuration page has several tabs: "General", "Source Code Management", "Build Triggers", "Build Environment", "Build", and "Post-build Actions". The "General" tab is currently selected.

Description: A text area containing "this is my docker assignment".

[Plain text] Preview: A section with several checkboxes and a text field:

- ☐ Commit agent's Docker container
- ☐ Define a Docker template
- ☐ Discard old builds
- ☒ GitHub project

Project url: `https://github.com/adesh8299/node-hello/`

Advanced... buttons are visible on the right side of the configuration options.

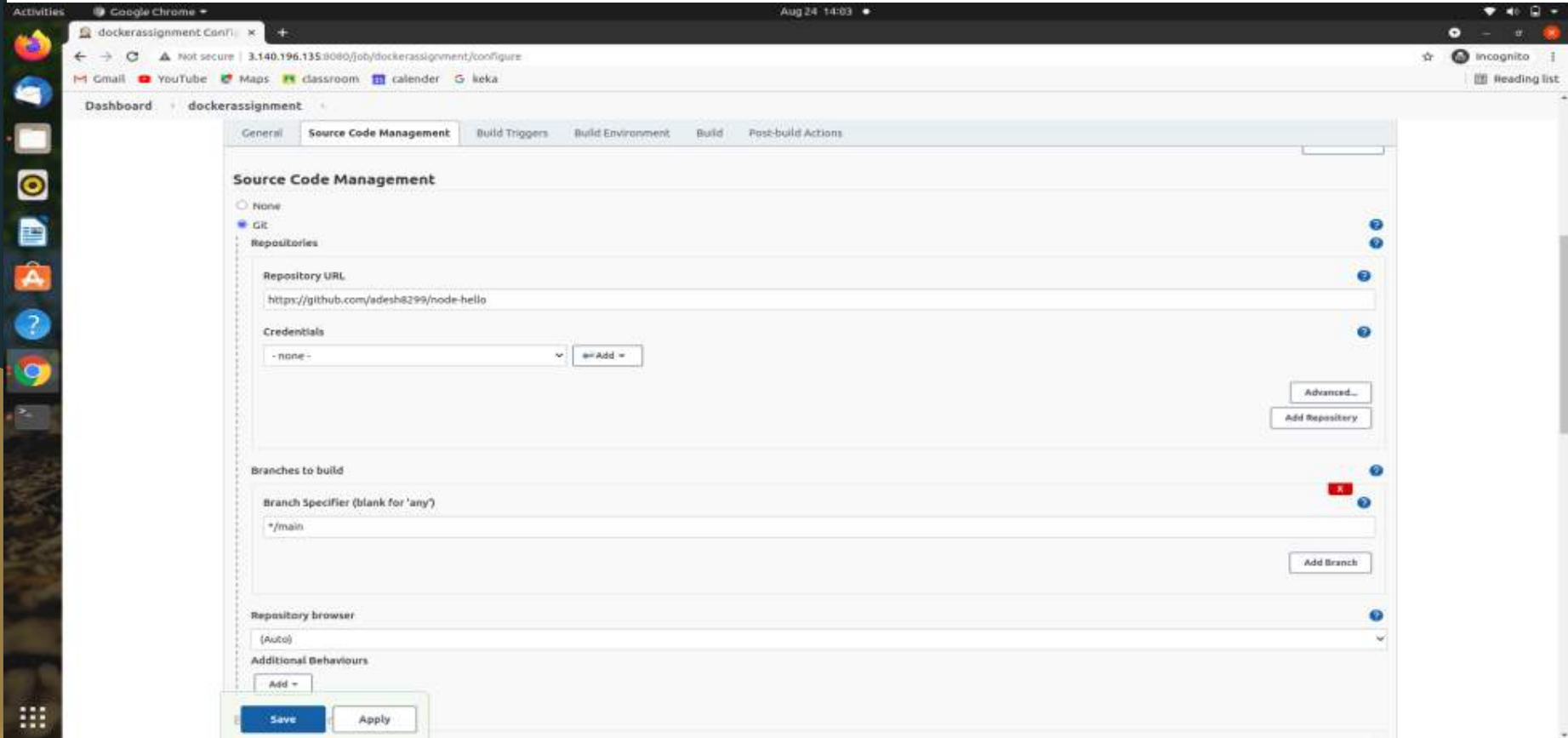
Source Code Management: A section with radio buttons:

- ☐ None
- ☒ Git

Repositories: A section for adding repositories.

At the bottom, there are "Save" and "Apply" buttons.

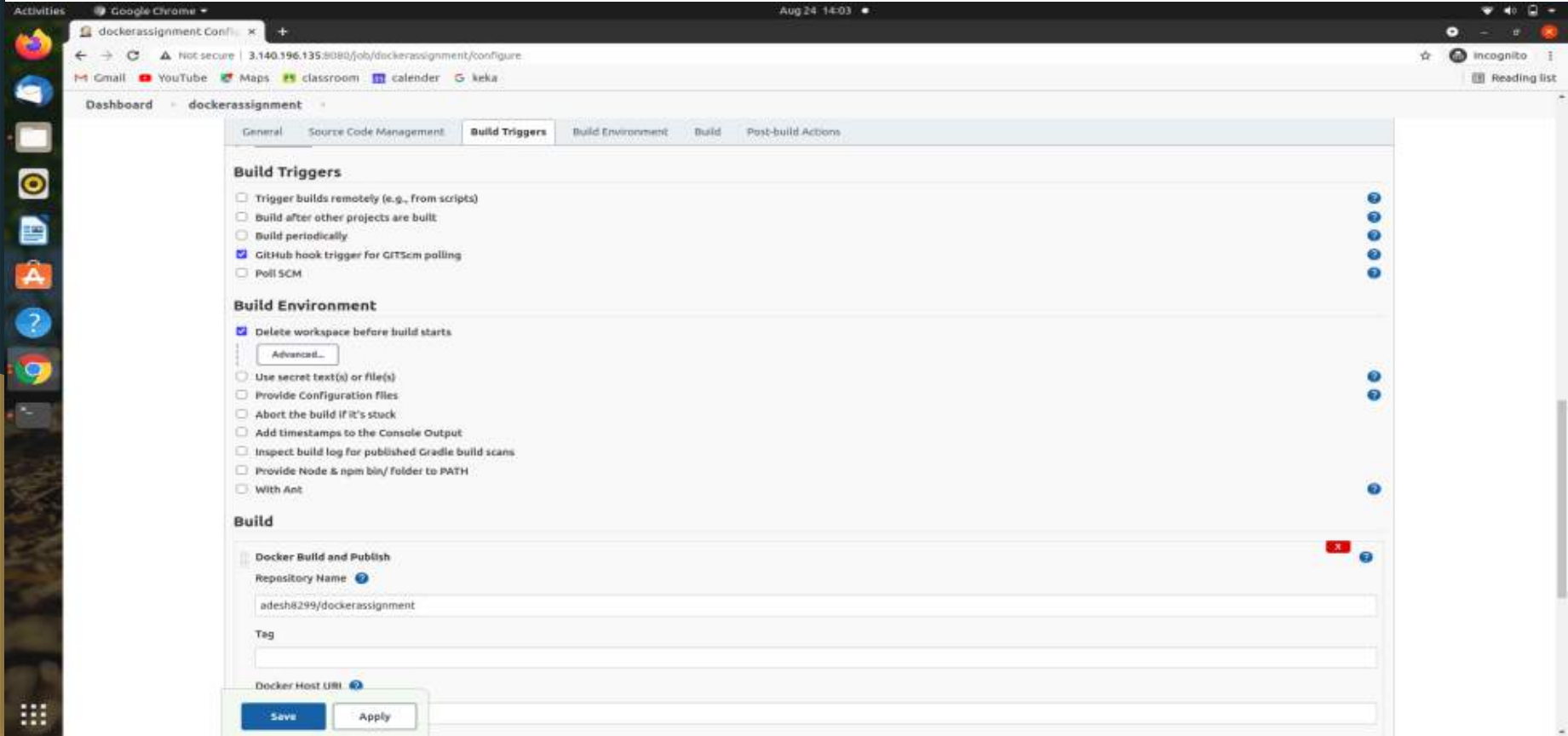
Jenkins Source Code Management Settings



The screenshot shows the Jenkins web interface in a Google Chrome browser. The address bar displays the URL `3.140.196.135:8080/job/dockerassignment/configure`. The page title is "dockerassignment Configure". The navigation bar includes "Dashboard" and "dockerassignment". The "Source Code Management" tab is selected, showing the following configuration:

- Source Code Management:** ☒ Git
- Repositories:**
 - Repository URL:** `https://github.com/adesh8299/node-hello`
 - Credentials:** `- none -` (with an "Add" button)
 - Buttons:** "Advanced...", "Add Repository"
- Branches to build:**
 - Branch Specifier (blank for 'any'):** `*/main`
 - Buttons:** "Add Branch"
- Repository browser:** `(Auto)`
- Additional Behaviours:** "Add"
- Buttons:** "Save", "Apply"

Jenkins Build Triggers Config



The screenshot shows the Jenkins web interface in Google Chrome. The browser's address bar displays the URL `3.140.196.135:8080/job/dockerassignment/configure`. The page title is "dockerassignment Configure". The navigation bar includes "Dashboard" and "dockerassignment". The configuration tabs are "General", "Source Code Management", "Build Triggers", "Build Environment", "Build", and "Post-build Actions".

The "Build Triggers" tab is active, showing the following options:

- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☒ GitHub hook trigger for GITScm polling
- ☐ Poll SCM

The "Build Environment" tab is also visible, showing the following options:

- ☒ Delete workspace before build starts
- ☐ Use secret text(s) or file(s)
- ☐ Provide Configuration files
- ☐ Abort the build if it's stuck
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published Gradle build scans
- ☐ Provide Node & npm bin/ folder to PATH
- ☐ With Ant

The "Build" tab is also visible, showing the following options:

- ☒ Docker Build and Publish

The "Docker Build and Publish" section includes the following fields:

- Repository Name: `adesh8299/dockerassignment`
- Tag: (empty field)
- Docker Host URI: (empty field)

At the bottom of the configuration page, there are "Save" and "Apply" buttons.

Jenkins Build Configuration

The screenshot shows the Jenkins web interface in a Google Chrome browser. The address bar indicates the URL is `3.140.196.135:8080/job/dockerassignment/configure`. The page title is "dockerassignment". The navigation tabs include "General", "Source Code Management", "Build Triggers", "Build Environment", "Build", and "Post-build Actions". The "Build" tab is currently selected.

Build

Docker Build and Publish

Repository Name: `adesh8299/dockerassignment`

Tag:

Docker Host URI:

Server credentials: - none - + Add +

Docker registry URL:

Registry credentials: `adesh8299/***** (this is my first docker assignmnet)` + Add +

Advanced...

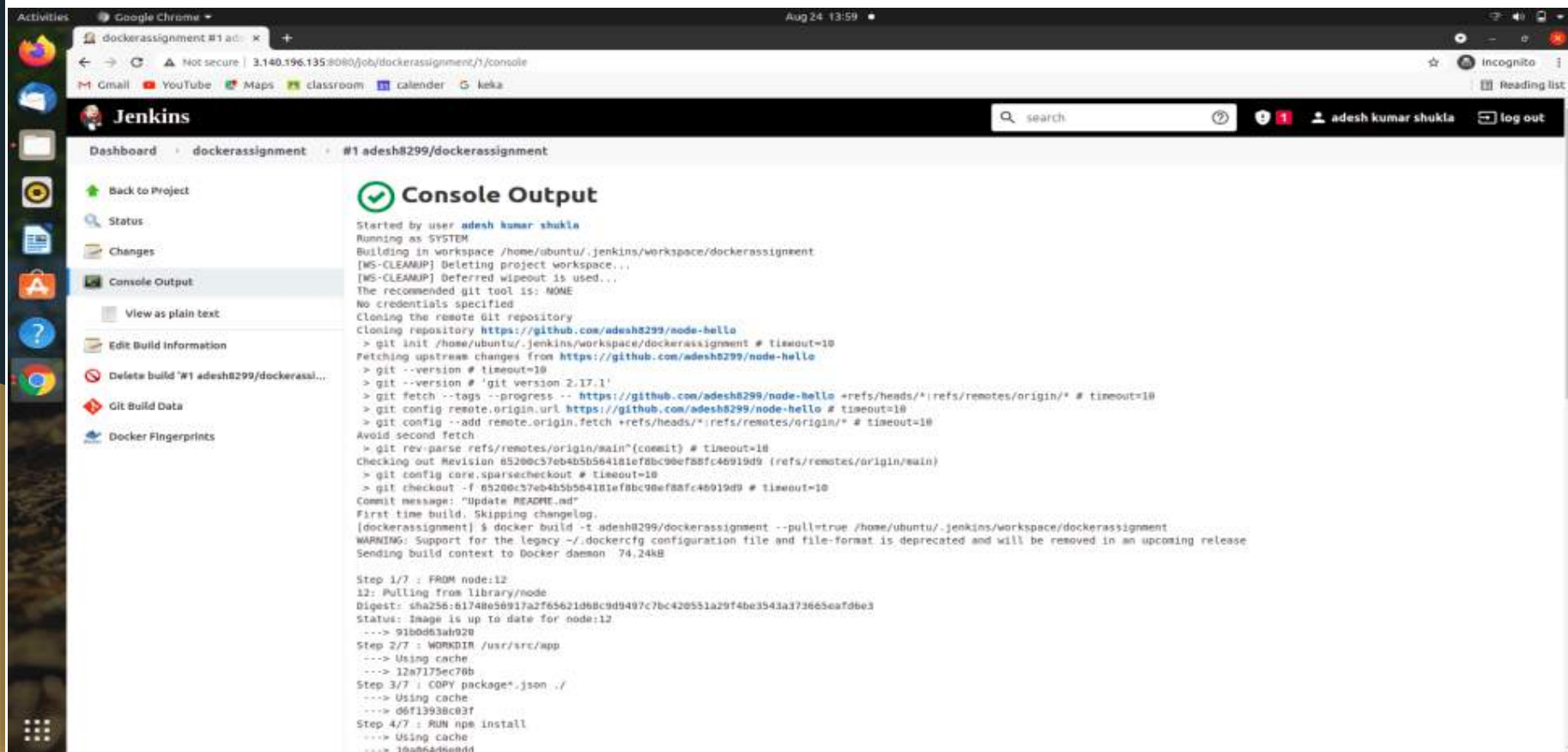
Add build step +

Post-build Actions

Add post-build action +

Save Apply

Build Console Output in Jenkins



The screenshot shows a web browser window displaying the Jenkins interface. The address bar shows the URL `3.140.196.135:8080/job/dockerassignment/1/console`. The Jenkins dashboard is visible on the left, with the 'Console Output' tab selected. The main area displays the console output for the build 'dockerassignment' #1, showing the process of cloning a repository, fetching updates, and building the Docker image.

Console Output

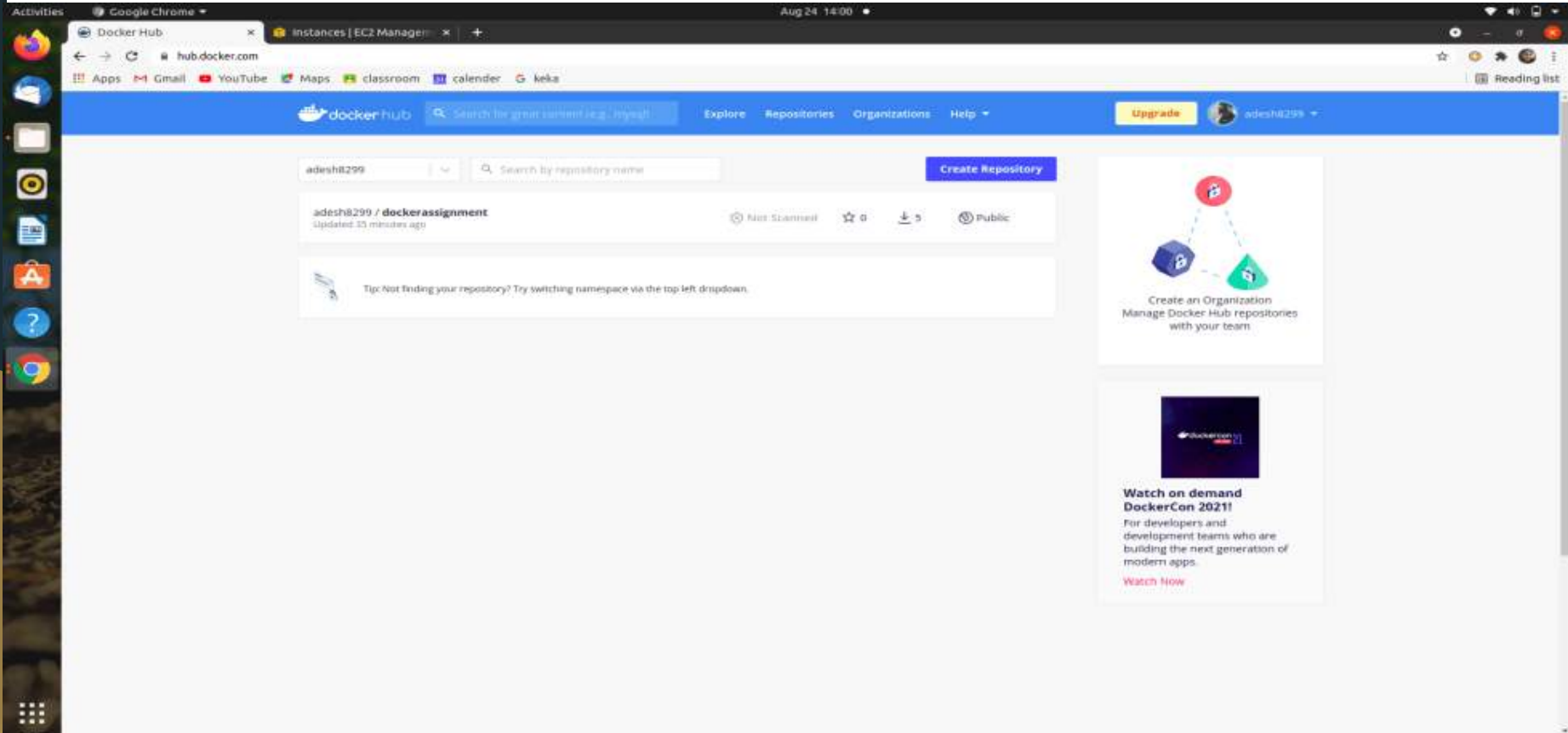
```
Started by user adesh kumar shukla
Running as SYSTEM
Building in workspace /home/ubuntu/.jenkins/workspace/dockerassignment
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
The recommended git tool is: NONE
No credentials specified
Cloning the remote git repository
Cloning repository https://github.com/adesh8299/node-hello
> git init /home/ubuntu/.jenkins/workspace/dockerassignment # timeout=10
Fetching upstream changes from https://github.com/adesh8299/node-hello
> git --version # timeout=10
> git --version # 'git version 2.17.1'
> git fetch --tags --progress -- https://github.com/adesh8299/node-hello +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/adesh8299/node-hello # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 65200c37eb4b5b564181ef8bc90ef287c40919d9 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 65200c37eb4b5b564181ef8bc90ef287c40919d9 # timeout=10
Commit message: "Update README.md"
First time build. Skipping changelog.
[dockerassignment] $ docker build -t adesh8299/dockerassignment --pull=true /home/ubuntu/.jenkins/workspace/dockerassignment
WARNING: Support for the legacy --dockercfg configuration file and file-format is deprecated and will be removed in an upcoming release
Sending build context to Docker daemon 74.24kB

Step 1/7 : FROM node:12
12: Pulling from library/node
Digest: sha256:61748e50917a2765621d68c9d949c7bc420531a29f4be3543a373665eaf0be3
Status: Image is up to date for node:12
----> 91b0d63ah020
Step 2/7 : WORKDIR /usr/src/app
----> Using cache
----> 12a7175ec70b
Step 3/7 : COPY package*.json ./
----> Using cache
----> 06f1393bc03f
Step 4/7 : RUN npm install
----> Using cache
----> 10a8e4d8e0dd
```

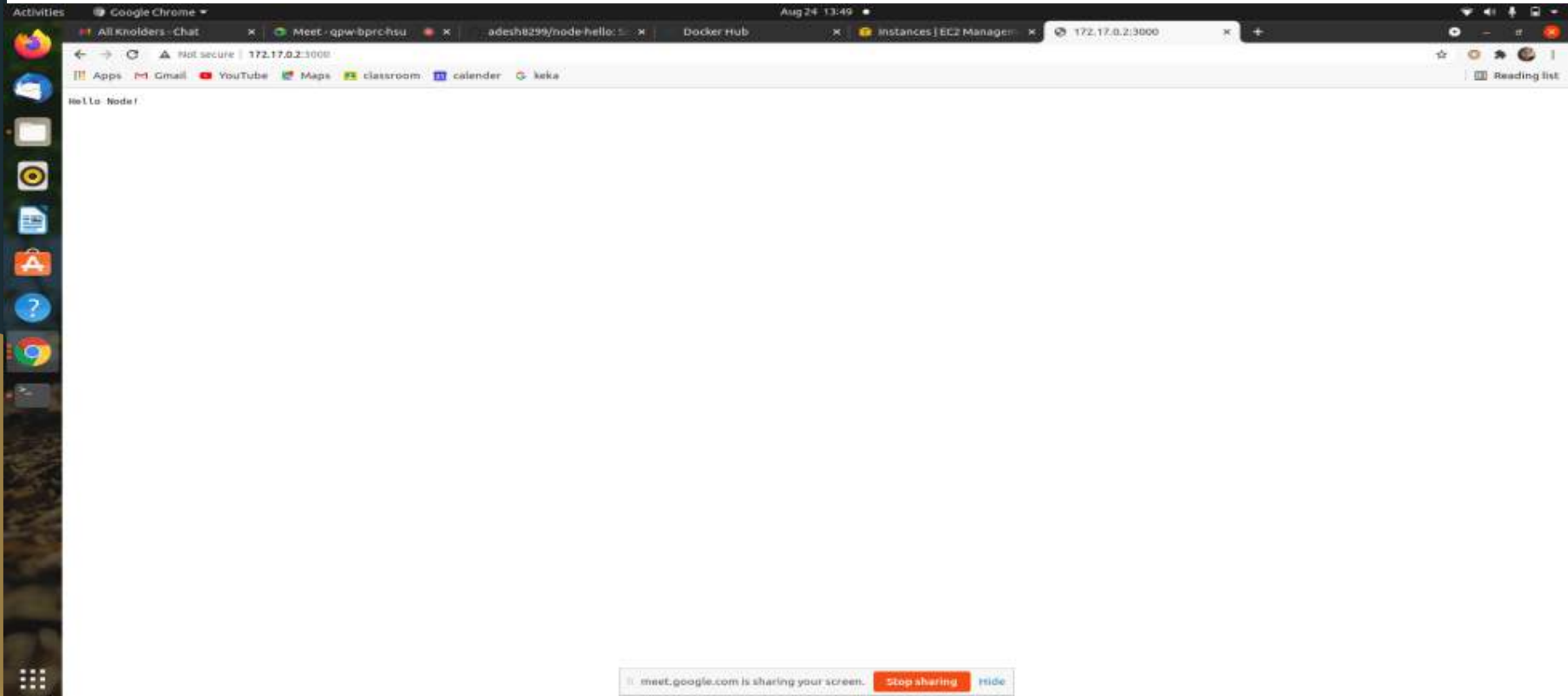
Dashboard » dockerassignment » #1 adesh8299/dockerassignment

```
Successfully tagged adesh8299/dockerassignment:latest
[dockerassignment] $ docker inspect 885fa936c75b
WARNING: Support for the legacy ~/.dockercfg configuration file and file-format is deprecated and will be removed in an upcoming release
[dockerassignment] $ docker push adesh8299/dockerassignment
WARNING: Support for the legacy ~/.dockercfg configuration file and file-format is deprecated and will be removed in an upcoming release
Using default tag: latest
The push refers to repository [docker.io/adesh8299/dockerassignment]
87b6a76e23f2: Preparing
d68298bf7ba8: Preparing
58ad26152f66: Preparing
d6289136belf: Preparing
015f31f2f9e4: Preparing
26fd723d2288: Preparing
b9ed41bad3b9: Preparing
5cb8af444f72: Preparing
dea274feffa: Preparing
953b9481bddb: Preparing
afce7e9043bf: Preparing
deeb988a5ea8: Preparing
1bf665ea9789: Preparing
26fd723d2288: Waiting
b9ed41bad3b9: Waiting
5cb8af444f72: Waiting
dea274feffa: Waiting
953b9481bddb: Waiting
afce7e9043bf: Waiting
deeb988a5ea8: Waiting
1bf665ea9789: Waiting
015f31f2f9e4: Mounted from library/node
26fd723d2288: Mounted from library/node
b9ed41bad3b9: Mounted from library/node
d68298bf7ba8: Pushed
87b6a76e23f2: Pushed
5cb8af444f72: Mounted from library/node
58ad26152f66: Pushed
953b9481bddb: Mounted from library/node
dea274feffa: Mounted from library/node
d6289136belf: Pushed
afce7e9043bf: Mounted from library/node
deeb988a5ea8: Mounted from library/node
1bf665ea9789: Mounted from library/node
latest: digest: 89750309845dcff4620ecd116cc5fca0eeaa551aee9b9af6956148eb7d47abc size: 3045
Finished: SUCCESS
```

Docker Repository Created after build success



Performing Validations by hitting end point with<VM_IP>:3000



Performing Validations by hitting end point with<VM_IP>:3001

