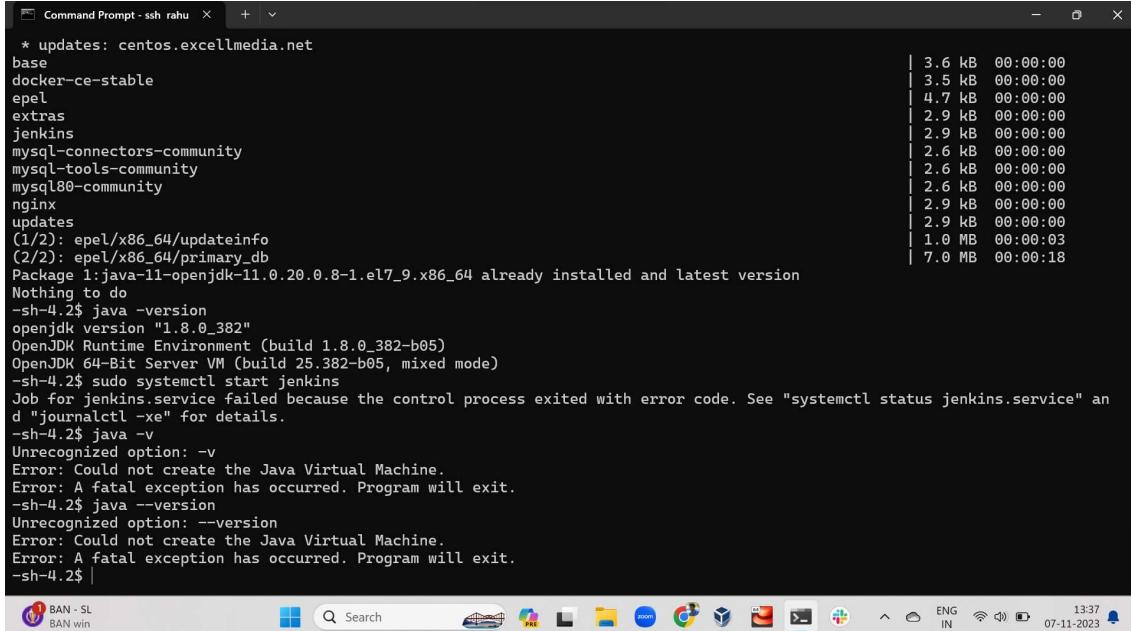
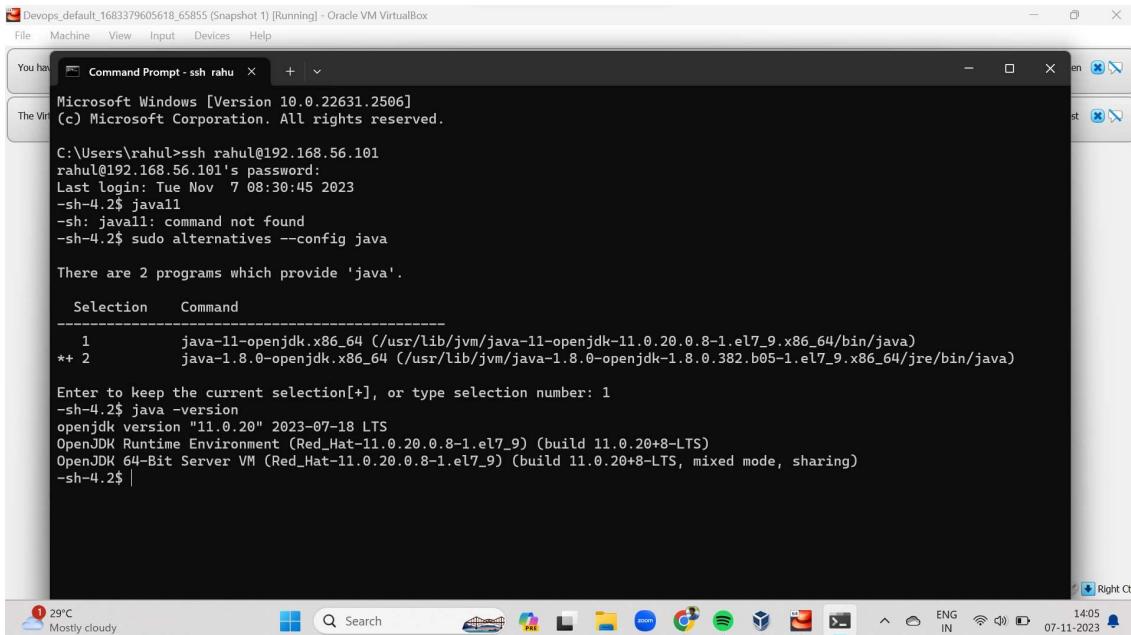


# Jenkins Assignment

## Assignment – 1 Jenkins Installation And run a simple Job



```
* updates: centos.excellmedia.net
base
docker-ce-stable
epel
extras
jenkins
mysql-connectors-community
mysql-tools-community
mysql80-community
nginx
updates
(1/2): epel/x86_64/updateinfo
(2/2): epel/x86_64/primary_db
Package 1:java-ll-openjdk-11.0.20.0.8-1.el7_9.x86_64 already installed and latest version
Nothing to do
-sh-4.2$ java -version
openjdk version "1.8.0_382"
OpenJDK Runtime Environment (build 1.8.0_382-b05)
OpenJDK 64-Bit Server VM (build 25.382-b05, mixed mode)
-sh-4.2$ sudo systemctl start jenkins
Job for jenkins.service failed because the control process exited with error code. See "systemctl status jenkins.service" and "journalctl -xe" for details.
-sh-4.2$ java -v
Unrecognized option: -v
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
-sh-4.2$ java --version
Unrecognized option: --version
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
-sh-4.2$ |
```



```
Devops_default_1683379605618_65855 [Snapshot 1] [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
You have 1 message
The VirtualBox Host-Only Adapter (Intel PRO/100 MT Desktop) is active.
You have 1 message
Command Prompt - ssh rahul | + | v
Microsoft Windows [Version 10.0.22631.2506]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahu@192.168.56.101's password:
Last login: Tue Nov  7 08:30:45 2023
-sh-4.2$ javall
-sh: javall: command not found
-sh-4.2$ sudo alternatives --config java

There are 2 programs which provide 'java'.

 Selection    Command
-----
 1           java-11-openjdk.x86_64 (/usr/lib/jvm/java-11-openjdk-11.0.20.0.8-1.el7_9.x86_64/bin/java)
 ++ 2         java-1.8.0-openjdk.x86_64 (/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.382.b05-1.el7_9.x86_64/jre/bin/java)

Enter to keep the current selection[+], or type selection number: 1
-sh-4.2$ java -version
openjdk version "11.0.20" 2023-07-18 LTS
OpenJDK Runtime Environment (Red Hat 11.0.20.0.8-1.el7_9) (build 11.0.20+8-LTS)
OpenJDK 64-Bit Server VM (Red Hat 11.0.20.0.8-1.el7_9) (build 11.0.20+8-LTS, mixed mode, sharing)
-sh-4.2$ |
```

**Getting Started**

# Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

**Jenkins**

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

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

Create a job

Set up a distributed build

Set up an agent

24°C T-storms

Search

ENG IN 07-11-2023 19:49

The screenshot shows a web browser window with three tabs open:

- Cohort CoE15 - DevOps
- Instalar Jenkins en CentOS
- gradious Config [Jenkins]

The third tab, "gradious Config [Jenkins]", is active and displays the Jenkins job configuration for "gradious". The "Build Steps" section is selected, showing a single step named "Execute shell" with the command "echo \"hello world\"".

Below the configuration, there are "Save" and "Apply" buttons.

The browser's address bar shows the URL: Not secure | 192.168.56.101:8080/job/gradious/configure

The system tray at the bottom indicates the date as 07-11-2023 and the time as 20:05.

The second tab, "gradious #8 Console [Jenkins]", shows the Jenkins console output for build #8. The output is:

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/gradious
[gradious] $ ./bin/sh -xe /tmp/jenkins14425806673001669747.sh
+ echo 'Hello world'
Hello world
Finished: SUCCESS
```

The browser's address bar shows the URL: Not secure | 192.168.56.101:8080/job/gradios/8/console

The system tray at the bottom indicates the date as 07-11-2023 and the time as 20:06.

## Assignment – 2 Jenkins Maven Project

Not secure | 192.168.56.101:8080/job/maven\_project/configure

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Dashboard > maven\_project > Configuration

## Configure

General Source Code Management Build Triggers Build Environment Build Steps Post-build Actions

**Git**

**Repositories**

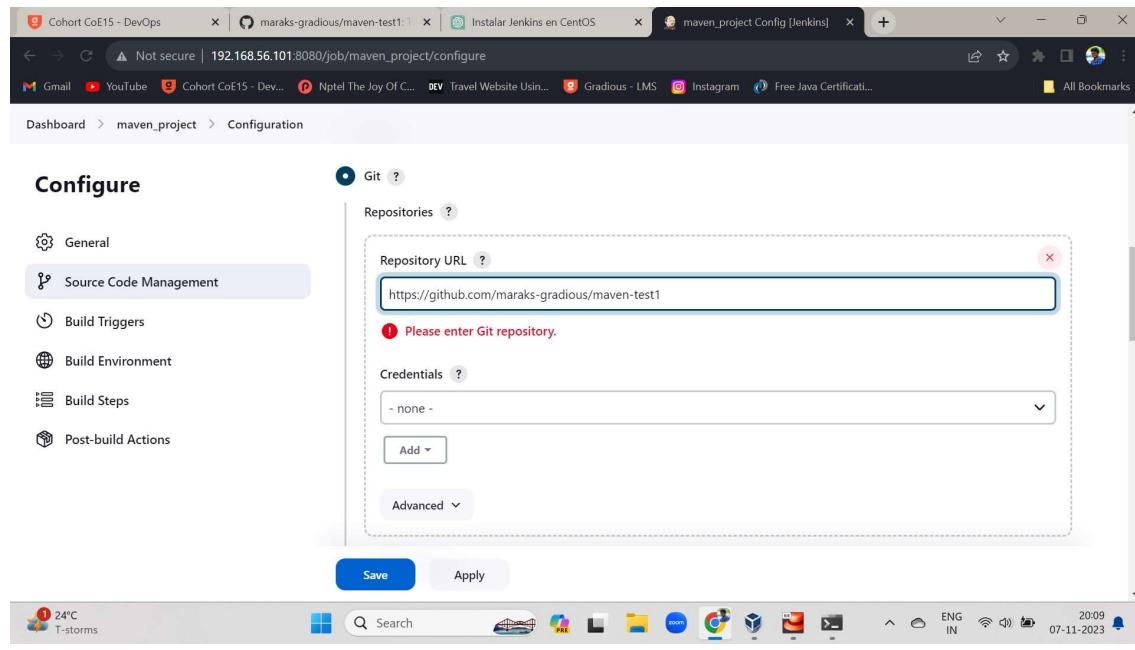
Repository URL: https://github.com/maraks-gradious/maven-test1

Please enter Git repository.

Credentials: - none -

Add Advanced

Save Apply



Not secure | 192.168.56.101:8080/job/maven\_project/configure

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Dashboard > maven\_project > Configuration

## Configure

General Source Code Management Build Triggers Build Environment Build Steps Post-build Actions

**Source Code Management**

- none -

Add Advanced

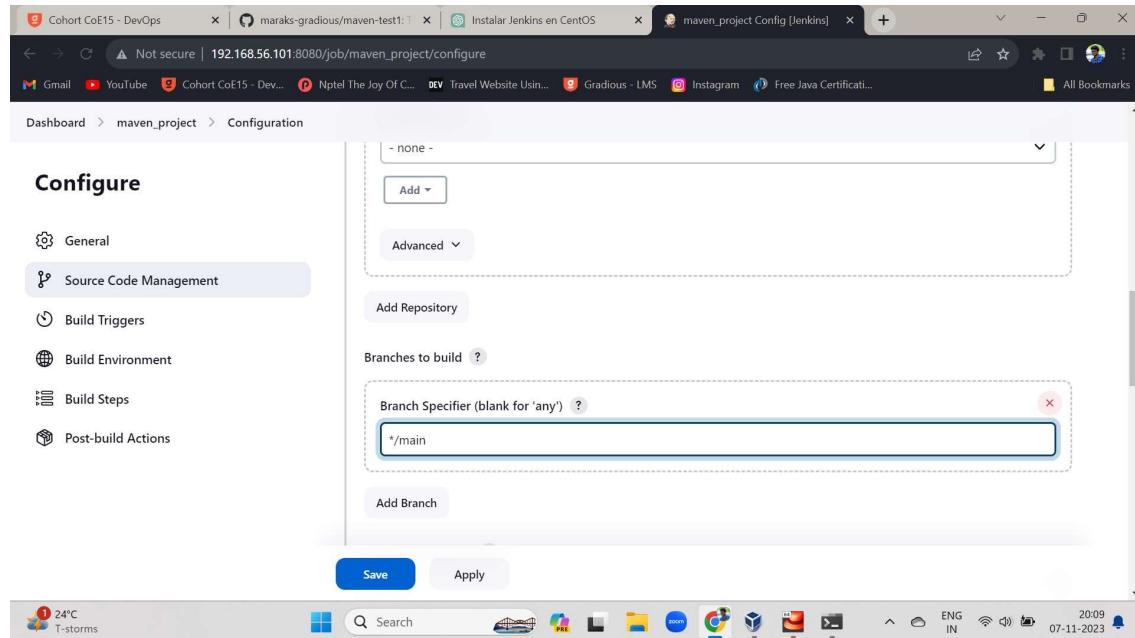
Add Repository

**Branches to build**

Branch Specifier (blank for 'any') \*/main

Add Branch

Save Apply



The screenshot shows the Jenkins configuration interface for a project named "maven\_project". The "Build Steps" section is active, displaying a single step titled "Execute shell". The command entered is "mvn clean verify". Below the command input field are two buttons: "Save" and "Apply".

The screenshot shows the Jenkins console output for the "maven\_project" job, specifically for build #1. The log output is as follows:

```
298/298 KB 384/1185 KB 256/256 KB 30/30 KB
298/298 KB 384/1185 KB 256/256 KB 30/30 KB

Downloaded: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.2/commons-codec-1.2.jar (30 KB at
402.5 KB/sec)
Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-decoration-model/1.1.2/doxia-
decoration-model-1.1.2.jar
298/298 KB 384/1185 KB 256/256 KB 4/50 KB
298/298 KB 384/1185 KB 256/256 KB 8/50 KB
298/298 KB 384/1185 KB 256/256 KB 12/50 KB
298/298 KB 384/1185 KB 256/256 KB 16/50 KB
298/298 KB 384/1185 KB 256/256 KB 20/50 KB
298/298 KB 384/1185 KB 256/256 KB 24/50 KB
298/298 KB 384/1185 KB 256/256 KB 28/50 KB
298/298 KB 384/1185 KB 256/256 KB 32/50 KB
298/298 KB 384/1185 KB 256/256 KB 36/50 KB
298/298 KB 384/1185 KB 256/256 KB 40/50 KB
298/298 KB 384/1185 KB 256/256 KB 44/50 KB
298/298 KB 384/1185 KB 256/256 KB 48/50 KB
298/298 KB 384/1185 KB 256/256 KB 50/50 KB
298/298 KB 388/1185 KB 256/256 KB 50/50 KB
298/298 KB 392/1185 KB 256/256 KB 50/50 KB
298/298 KB 396/1185 KB 256/256 KB 50/50 KB
```

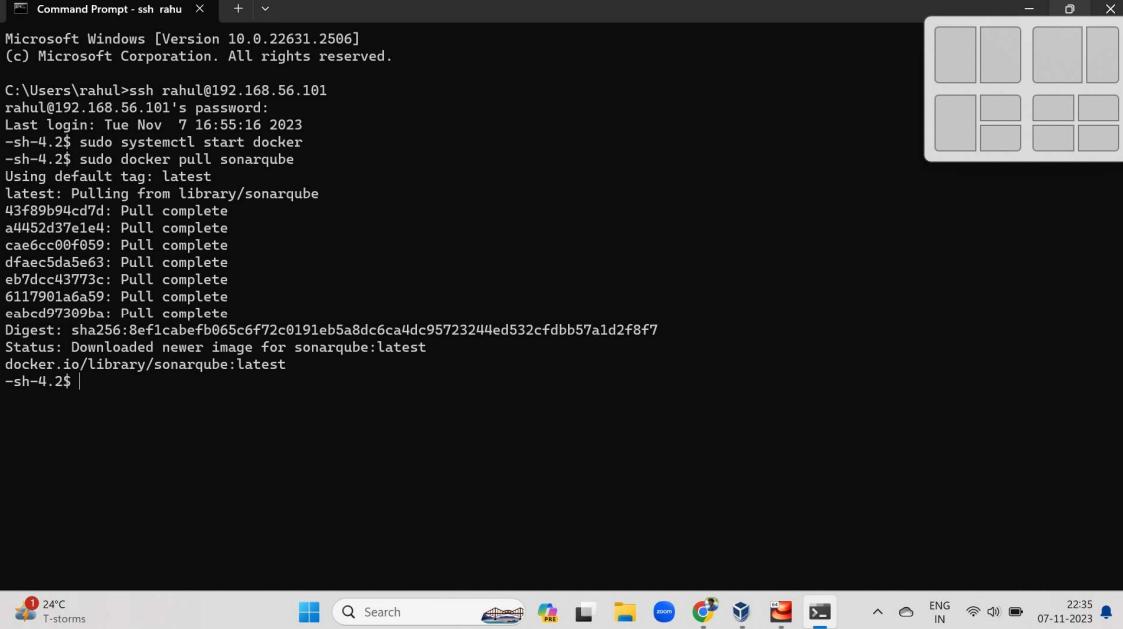
The screenshot shows a web browser window with multiple tabs open. The active tab is titled "maven\_project #1 Console [Jenkins]" and displays the Jenkins console output for a build named "maven\_project". The output shows the execution of a Jacoco report, the build success message, and the total time taken.

```
[INFO] Loading execution data file /var/lib/jenkins/workspace/maven_project/target/jacoco_it.exec
[INFO] Writing merged execution data to /var/lib/jenkins/workspace/maven_project/target/jacoco-booth.exec
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.4:report-integration (jacoco-integration) @ java-maven-junit-helloworld ---
[INFO] Loading execution data file /var/lib/jenkins/workspace/maven_project/target/jacoco-it.exec
[INFO] Analyzed bundle 'java-maven-junit-helloworld' with 2 classes
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.4:report (jacoco-reportboth) @ java-maven-junit-helloworld ---
[INFO] Loading execution data file /var/lib/jenkins/workspace/maven_project/target/jacoco-booth.exec
[INFO] Analyzed bundle 'java-maven-junit-helloworld' with 2 classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 34.358s
[INFO] Finished at: Tue Nov 07 15:08:56 UTC 2023
[INFO] Final Memory: 23M/55M
[INFO] -----
Finished: SUCCESS
```

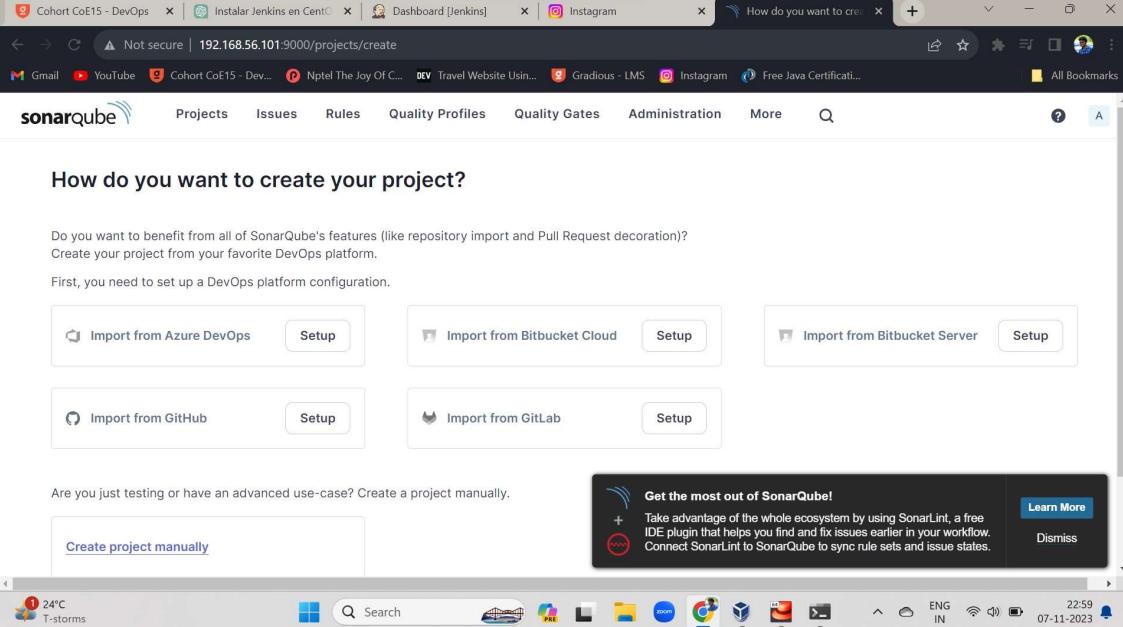
The screenshot shows a terminal window titled "Command Prompt - ssh rahu" running on a Linux system. The user has navigated to the Jenkins configuration directory and listed files. They then run a command to update the sysctl.conf file, which fails due to permission denied errors for keys 'vm.max\_map\_count' and 'fs.file-max'. The terminal also shows the system date and time.

```
Nov 07 14:30:08 localhost.localdomain systemd[1]: Failed to start nginx - high performance web server.
Nov 07 14:30:08 localhost.localdomain systemd[1]: Unit nginx.service entered failed state.
Nov 07 14:30:08 localhost.localdomain systemd[1]: nginx.service failed.
-sh-4.2$ cd /var/lib/jenkins
-sh-4.2$ ls
%C
config.xml
jenkins.install.UpgradeWizard.state
jenkins.model.JenkinsLocationConfiguration.xml
plugins
queue.xml
users
hudson.model.UpdateCenter.xml
jenkins.telemetry.Correlator.xml
secret.key
workspace
hudson.plugins.git.GitTool.xml
jobs
nodeMonitors.xml
secret.key.not-so-secret
identity.key.enc
secrets
jenkins.install.InstallUtil.lastExecVersion nodes
updates
-sh-4.2$ cd
-sh-4.2$ sudo vi /etc/sysctl.conf
-sh-4.2$ sudo vi /etc/sysctl.conf
-sh-4.2$ sysctl -p
sysctl: permission denied on key 'vm.max_map_count'
sysctl: permission denied on key 'fs.file-max'
-sh-4.2$ sudo sysctl -p
-sh-4.2$ |
fs.file-max = 65536
-sh-4.2$
```

# Assignment – 3 Integrate SonarQube scanner into Pipeline



```
C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Tue Nov  7 16:55:16 2023
-sh-4.2$ sudo systemctl start docker
-sh-4.2$ sudo docker pull sonarqube
Using default tag: latest
latest: Pulling from library/sonarqube
43f89b94cd7d: Pull complete
a4452d37e1e4: Pull complete
cae6cc00f059: Pull complete
dfaecd5da5e63: Pull complete
eb7dcc43773c: Pull complete
6117901a6a59: Pull complete
eabcd97309ba: Pull complete
Digest: sha256:8eficabefb065c6f72c0191eb5a8dc6ca4dc95723244ed532cfdbb57a1d2f8f7
Status: Downloaded newer image for sonarqube:latest
docker.io/library/sonarqube:latest
-sh-4.2$ |
```



How do you want to create your project?

Do you want to benefit from all of SonarQube's features (like repository import and Pull Request decoration)? Create your project from your favorite DevOps platform.

First, you need to set up a DevOps platform configuration.

Import options:

- Import from Azure DevOps
- Import from Bitbucket Cloud
- Import from Bitbucket Server
- Import from GitHub
- Import from GitLab

Are you just testing or have an advanced use-case? Create a project manually.

Create project manually

Get the most out of SonarQube!

+ Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow. Connect SonarLint to SonarQube to sync rule sets and issue states.

Learn More

Dismiss

**Plugins**

Available plugins

Search: pipeline maven

Install	Name	Released
<input checked="" type="checkbox"/>	SonarQube Scanner 2.16.1 External Site/Tool Integrations Build Reports	28 days ago
<input checked="" type="checkbox"/>	Pipeline Maven Integration 1345.va_0ef5530a_5ca pipeline Maven	1 mo 2 days ago

**Tokens of Administrator**

Generate Tokens

Name	Expires in
gradious	30 days

No tokens

Done

Get the most out of SonarQube!

Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow.

Community Edition - Version 10.2.1 (build 78527) - LGPL v3 - Community

Learn More

Dismiss

The screenshot shows two separate browser windows side-by-side.

**Top Window (Jenkins Configuration):**

- URL:** Not secure | 192.168.56.101:8080/manage/configure
- Section:** System > Manage Jenkins > System
- Form Fields:**
  - Name:** sonar
  - Server URL:** Default is http://localhost:9000  
http://192.168.56.101:9000
  - Server authentication token:** - none -  
Add
- Buttons:** Save, Apply

**Bottom Window (Pipeline Script):**

- URL:** Not secure | 192.168.56.101:8080/job/assign3/configure
- Section:** Pipeline > assign3 > Configuration
- Script Definition:** Pipeline script
- Script Content:**

```
4 stages {
5   stage('Source') {
6     steps {
7       git branch: 'main', url: 'https://github.com/maraks-gradious/maven-testi'
8     }
9   }
10  stage('Build') {
11    steps {
12      withSonarQubeEnv('localsonar') {
13        // Optionally use a Maven environment you've configured already
14        withMaven {
15          sh "mvn clean verify sonar:sonar"
16        }
17      }
18    }
19  }
20 }
```
- Buttons:** Save, Apply

```
Command Prompt - ssh rahu + x
693213067fffdc87cf2ecb94cfc5c66d75d444b2f4dfb8efcb73d10ee8095b16
docker: Error response from daemon: driver failed programming external connectivity on endpoint sonarqube (9692e363f38ca0743afaf69ff1afe0f6c3d9bfd81d563cbdcfa66dc726a8e5e): (iptables failed: iptables --wait -t nat -A DOCKER -p tcp -d 0/0 --dport 9092 -j DNAT --to-destination 172.17.0.2:9092 ! -i docker0: iptables: No chain/target/match by that name.
(sh-4.2$)
-sh-4.2$ sudo docker rm sonarqube
sonarqube
-sh-4.2$ sudo docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:/opt/sonarqube/conf -v sonarqube-data:/opt/s
onarqube/data -v sonarqube-logs:/opt/sonarqube/logs -v sonarqube-extensions:/opt/sonarqube/extensions sonarqube
e56556f4a0118e81ab39aac984a7b1fd211ca69cda29042ed39df24f486ca907
docker: Error response from daemon: driver failed programming external connectivity on endpoint sonarqube (7816b102697135a051b4b79dfc
2bffb56da306792188bf170ae9b99a13e07fd4): (iptables failed: iptables --wait -t nat -A DOCKER -p tcp -d 0/0 --dport 9092 -j DNAT --to-
destination 172.17.0.2:9092 ! -i docker0: iptables: No chain/target/match by that name.
(sh-4.2$)
-sh-4.2$ sudo service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
    docker.socket
(sh-4.2$)
-sh-4.2$ sudo iptables -t nat -F
(sh-4.2$)
sudo service docker start
Redirecting to /bin/systemctl start docker.service
(sh-4.2$)
sudo docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:/opt/sonarqube/conf -v sonarqube-data:/opt/s
onarqube/data -v sonarqube-logs:/opt/sonarqube/logs -v sonarqube-extensions:/opt/sonarqube/extensions sonarqube
docker: Error response from daemon: Conflict. The container name "/sonarqube" is already in use by container "e56556f4a0118e81ab39aac
984a7b1fd211ca69cda29042ed39df24f486ca907". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
(sh-4.2$)
sudo docker rm sonarqube
sonarqube
(sh-4.2$)
sudo docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:/opt/sonarqube/conf -v sonarqube-data:/opt/s
onarqube/data -v sonarqube-logs:/opt/sonarqube/logs -v sonarqube-extensions:/opt/sonarqube/extensions sonarqube
6b6a75b7768115126728358c592777lebc73934e7d8d37e6bf34dbdb014b24be
(sh-4.2$)
```



# Assignment – 4 Build a war file deploy into the tomcat contain using pipeline script

```
Command Prompt - ssh rahu + x
apache Dockerfile index.html mattermost
docker-compose.yml git-2.40.0 init.sql sql
-sh-4.2$ cd / git bash
-sh-4.2$ ls
app_backup.sh lvmdatal
app_server mattermost
backuplogs maven-testl
backup_script.sh media
bin mnt
boot mysql57-community-release-el7-9.noarch.rpm.1
data node-mysql-crud
database opt
dev proc
etc root
Favorites run
file1.txt sbin
file2.txt sonarqube
file3.txt srv
fruits.txt ssl
gradious swapfile
hidden.txt sys
home test
java_project tmp
lib usr
lib64 vagrant
logs.sh var
lvmdatal
-sh-4.2$ cd java_project
-sh-4.2$ ls
dist pom.xml README.md src target
-sh-4.2$ |
```

23°C Haze 23:23 ENG IN 21-11-2023

```
Command Prompt - ssh rahu + x
-sh-4.2$ sudo mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building Hello World Web Application Repository 1.0.0
[INFO] -----
[INFO] [INFO] --- maven-clean-plugin:2.4.1:clean (default-clean) @ hello-world-war ---
[INFO] Deleting /java_project/target
[INFO]
[INFO] --- maven-resources-plugin:2.5:resources (default-resources) @ hello-world-war ---
[debug] execute contextualize
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /java_project/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:compile (default-compile) @ hello-world-war ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-resources-plugin:2.5:testResources (default-testResources) @ hello-world-war ---
[debug] execute contextualize
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /java_project/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:testCompile (default-testCompile) @ hello-world-war ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.10:test (default-test) @ hello-world-war ---
[INFO] No tests to run.
[INFO] Surefire report directory: /java_project/target/surefire-reports
```

23°C Haze 23:37 ENG IN 21-11-2023

```
Command Prompt - ssh rahu + X

dist pom.xml README.md src target
-sh-4.2$ sudo vi Dockerfile
-sh-4.2$ sudo docker build -t my-tomcat-app .
[+] Building 31.6s (8/8) FINISHED          docker:default
--> [internal] load build definition from Dockerfile      0.1s
--> => transferring dockerfile: 410B                  0.0s
--> [internal] load .dockerignore           0.1s
--> => transferring context: 2B                 0.0s
--> [internal] load metadata for docker.io/library/tomcat 1.0s
--> [1/3] FROM docker.io/library/tomcat:7sha256:f7d37d2 29.0s
--> => resolve docker.io/library/tomcat:7sha256:f7d37d24 0.0s
--> => sha256:489823486120d076cb576640c58 2.42kB 2.42kB
--> => sha256:83d3c0fa203acbaade733bffff62 10.00MB / 10.00MB 2.4s
--> => sha256:f7d37d248d0eacecle5995736234c9c 549B / 549B 0.0s
--> => sha256:9df74e6bc2f5a4f77649be71b 13.88kB / 13.88kB 0.0s
--> => sha256:0bc3020d05f1e0bb41fc5d54 50.44MB / 50.44MB 3.5s
--> => sha256:a10e58716600c199fc95f633b3 7.83MB / 7.83MB 1.6s
--> => sha256:a8fd09c11b021b756b7a92a4f 51.84MB / 51.84MB 8.4s
--> => sha256:96ebfb150606575a0e557aa73490 5.29MB / 5.29MB 3.4s
--> => sha256:26b72ffca293d7e6fd2f11bf2642cd4 211B / 211B 3.7s
--> => sha256:0bffa2ea17aac1bf6e4f005 105.94MB / 105.94MB 18.7s
--> => sha256:d880cebcc7a670ee655bbala18287b 172B / 172B 4.2s
--> => extracting sha256:0bc3020d05f1e0bb41fc5d54650a157 8.4s
--> => sha256:d19ab8039b36a3b780769bc1b 10.67MB / 10.67MB 7.4s
--> => sha256:5057492dc495166470c5a5ed01c7c99 129B / 129B 8.6s
--> => extracting sha256:a10e58716600c199fc95f633b30735c 0.4s
--> => extracting sha256:83d3c0fa203acbaade733bfff627daa75b 0.7s
--> => extracting sha256:a8fd09c11b021b756b7a92a4f70a3d44 6.5s
--> => extracting sha256:96ebfb150606575a0e557aa7349033a27 0.5s
--> => extracting sha256:26b72ffca293d7e6fd2f11bf2642cd47 0.0s
--> => extracting sha256:0bffa2ea17aac1bf6e4f006f8ee4bb8d8 5.9s
--> => extracting sha256:d880cebcc7a670ee655bbala18287b 0.0s

23°C Haze Search ENG IN 23:38 21-11-2023
```

```
Command Prompt - ssh rahu + X

-sh-4.2$ sudo docker run -p 8081:8081 my-tomcat-app
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Server version name: Apache Tomcat/7.0.109
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Server built:        Apr 22 2021 18:43:38 UTC
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Server version number: 7.0.109.0
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: OS Name:              Linux
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: OS Version:           3.10.0-1160.90.1.el7.x86_64
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Architecture:         amd64
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Java Home:             /usr/local/openjdk-8/jre
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: JVM Version:          1.8.0_292-b10
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: JVM Vendor:            Oracle Corporation
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: CATALINA_BASE:          /usr/local/tomcat
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: CATALINA_HOME:          /usr/local/tomcat
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Command line argument: -Djava.util.logging.config.file=/usr/local/tomcat/conf/logging.properties
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Command line argument: -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log
INFO: Command line argument: -Dorg.apache.catalina.security.SecurityListener.UMASK=0027
Nov 21, 2023 6:06:37 PM org.apache.catalina.startup.VersionLoggerListener log

23°C Haze Search ENG IN 23:38 21-11-2023
```

The Apache Software Foundation  
http://www.apache.org/

If you're seeing this, you've successfully installed Tomcat. Congratulations!

Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Developer Quick Start

Tomcat Setup      Realms & AAA      Examples      Servlet Specifications  
First Web Application      JDBC DataSources      Tomcat Versions

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in: [CATALINA\\_HOME/conf/tomcat-users.xml](#)

In Tomcat 7.0 access to the manager

Documentation

[Tomcat 7.0 Documentation](#)  
[Tomcat 7.0 Configuration](#)  
[Tomcat Wiki](#)

Getting Help

[FAQ and Mailing Lists](#)

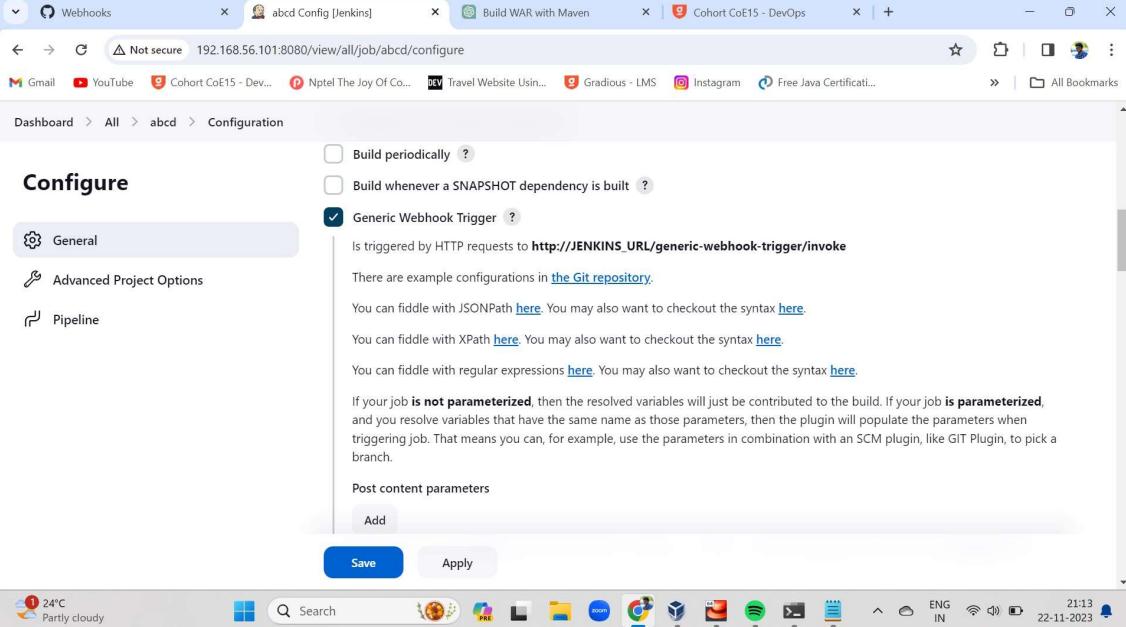
The following mailing lists are available:

[announce@tomcat.apache.org](mailto:announce@tomcat.apache.org)  
Important announcements, releases, security vulnerabilities, notifications, etc.

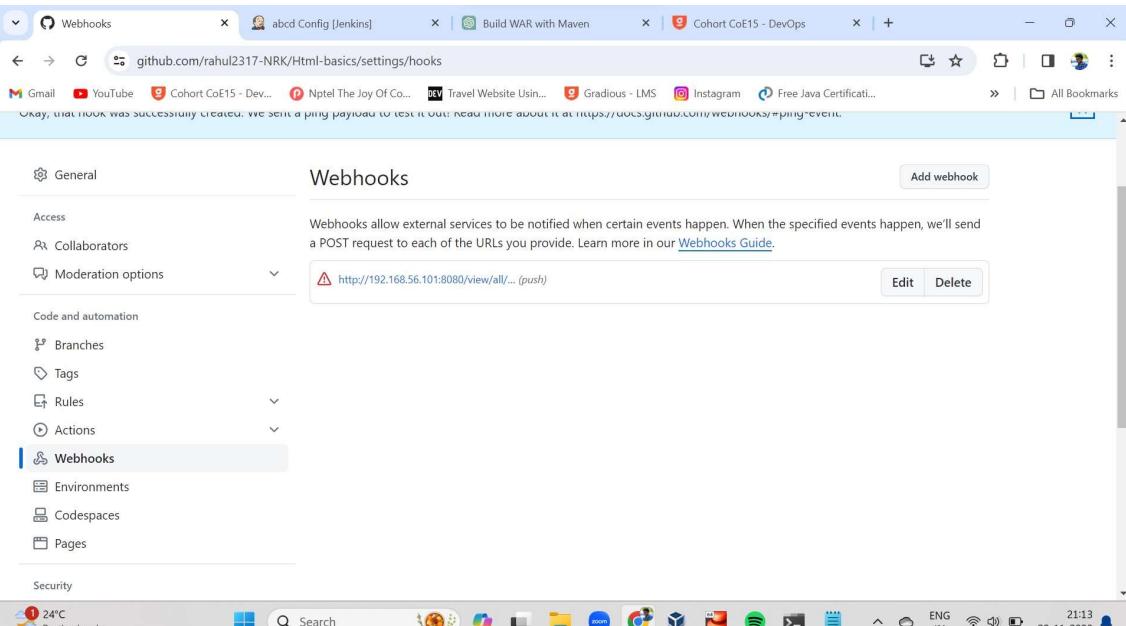
Server Status      Manager App      Host Manager

23°C Haze      Search      ENG IN      21-11-2023

# Assignment – 5 Create a simple php project pipeline /deploy to any web server& trigger the job using command line remotely



The screenshot shows the Jenkins configuration page for a job named 'abcd'. Under the 'General' tab, the 'Generic Webhook Trigger' option is selected. It is triggered by HTTP requests to `http://JENKINS_URL/generic-webhook-trigger/invoke`. There are example configurations in the [Git repository](#). Instructions for fiddling with JSONPath, XPath, and regular expressions are provided. A note states that if the job is not parameterized, resolved variables will be contributed to the build. If it is parameterized and resolves variables with the same name as parameters, the plugin will populate the parameters when triggering the job. Buttons for 'Save' and 'Apply' are at the bottom.

The screenshot shows the GitHub settings page for a repository named 'github.com/rahu12317-NRK/Html-basics'. Under the 'Webhooks' tab, a new webhook has been successfully created. The URL is `http://192.168.56.101:8080/view/all/.../push`. Buttons for 'Edit' and 'Delete' are visible. The GitHub interface includes a search bar, navigation icons, and a status bar showing '24°C Partly cloudy' and the date '22-11-2023'.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "abcd Config [Jenkins]". The page content is related to setting up a webhook. On the left, there's a sidebar with various Jenkins configuration options like "Moderation options", "Code and automation", "Webhooks" (which is selected), "Secrets and variables", and "Integrations". The main area contains instructions about sending POST requests to a URL with event details. It includes fields for "Payload URL" (set to `http://192.168.56.101:8080/view/all/job/abcd/invoke?token=squ_9c`), "Content type" (set to `application/x-www-form-urlencoded`), and a "Secret" section. Below that, it asks "Which events would you like to trigger this webhook?" with three options: "Just the push event." (selected), "Send me everything.", and "Let me select individual events.". At the bottom right of the browser window, there's a system status bar showing "21:13 22-11-2023".

The screenshot shows a GitHub repository page for "Html-basics". The repository is public and has 2 branches and 0 tags. The main commit is "Gradious Deployment Script" by "maven-test1" (35b5516, 6 minutes ago). There's also a file named "php.sh" (Deployment Script, 6 minutes ago). A message encourages adding a README. The right sidebar contains sections for "About" (no description, website, or topics provided), "Activity" (0 stars, 1 watching, 0 forks), "Releases" (no releases published, Create a new release), and "Packages" (no packages published, Publish your first package). At the bottom right, there's a system status bar showing "23:57 21-11-2023".

```
Command Prompt - ssh rahu + ×

-sh-4.2$ cd / git bash
-sh-4.2$ sudo touch php.sh
-sh-4.2$ sudo vi php.sh
-sh-4.2$ git add php.sh
fatal: Unable to create '/.git/index.lock': Permission denied
-sh-4.2$ sudo git add php.sh
-sh-4.2$ sudo git commit -m " Deployment Script"
[Feature/NAGAVATHR0001 35b5516] Deployment Script
1 file changed, 8 insertions(+)
create mode 100644 php.sh
-sh-4.2$ sudo git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using
    git remote add <name> <url>
and then push using the remote name
    git push <name>
-sh-4.2$ sudo git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using
    git remote add <name> <url>
and then push using the remote name
    git push <name>
-sh-4.2$ sudo git push https://github.com/rahul2317-NRK/maven-test1
fatal: The current branch Feature/NAGAVATHR0001 has no upstream branch.

23°C Haze Search ENG IN 00:17 22-11-2023
```

```
Command Prompt - ssh rahu + ×

git push --set-upstream https://github.com/rahul2317-NRK/maven-test1 Feature/NAGAVATHR0001

-sh-4.2$ sudo git push --set-upstream https://github.com/rahul2317-NRK/maven-test1 Feature/NAGAVATHR0001
Username for 'https://github.com': rahul2317-NRK
Password for 'https://rahul2317-NRK@github.com':
fatal: Authentication failed for 'https://github.com/rahul2317-NRK/maven-test1'
-sh-4.2$ sudo git push --set-upstream https://github.com/rahul2317-NRK/maven-test1 Feature/NAGAVATHR0001
Username for 'https://github.com': rahul2317-NRK
Password for 'https://rahul2317-NRK@github.com':
To https://github.com/rahul2317-NRK/maven-test1
 ! [rejected]      Feature/NAGAVATHR0001 -> Feature/NAGAVATHR0001 (fetch first)
error: failed to push some refs to 'https://github.com/rahul2317-NRK/maven-test1'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first merge the remote changes (e.g.,
hint: 'git pull') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
-sh-4.2$ sudo git push --set-upstream https://github.com/rahul2317-NRK/Html-basics Feature/NAGAVATHR0001
Username for 'https://github.com': rahul2317-NRK
Password for 'https://rahul2317-NRK@github.com':
Counting objects: 5, done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 572 bytes | 0 bytes/s, done.
Total 5 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'Feature/NAGAVATHR0001' on GitHub by visiting:
remote:     https://github.com/rahul2317-NRK/Html-basics/pull/new/Feature/NAGAVATHR0001
remote:
To https://github.com/rahul2317-NRK/Html-basics
 * [new branch]      Feature/NAGAVATHR0001 -> Feature/NAGAVATHR0001
Branch Feature/NAGAVATHR0001 set up to track remote branch Feature/NAGAVATHR0001 from https://github.com/rahul2317-NRK/Html-basics.
-sh-4.2$ |
```

Screenshot of a Jenkins job named 'abcd' showing a successful run. The pipeline has no stages defined.

**Permalinks**

- Last build (#3), 12 sec ago
- Last stable build (#3), 12 sec ago
- Last successful build (#3), 12 sec ago
- Last completed build (#3), 12 sec ago

#3 | Nov 22, 2023, 2:48 PM  
#2 | Nov 22, 2023, 2:48 PM  
#1 | Nov 22, 2023, 2:38 PM

Atom feed for all Atom feed for failures

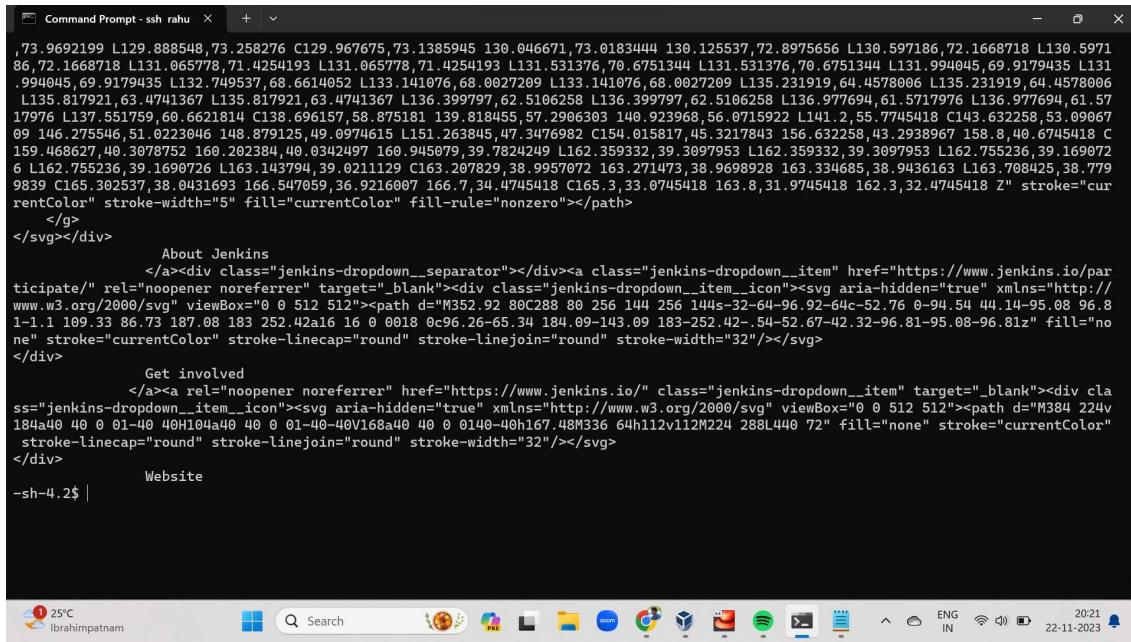
REST API Jenkins 2.414.3

Command Prompt - ssh rahu

```
-sh-4.2$ curl -l -u admin http://192.168.56.101:8080/view/all/job/abcd/
Enter host password for user 'admin':
```

```
<!DOCTYPE html><html><head resURL="/static/ef374011" data-rooturl="" data-resurl="/static/ef374011" data-extensions-available="true" data-unit-test="false" data-imagesurl="/static/ef374011/images" data-crumb-header="Jenkins-Crumb" data-crumb-value="9b5cecl3a5708ab8fd5430c53223cbbbf0551251e0f8f1fab2d1095da3d4fe54">
```

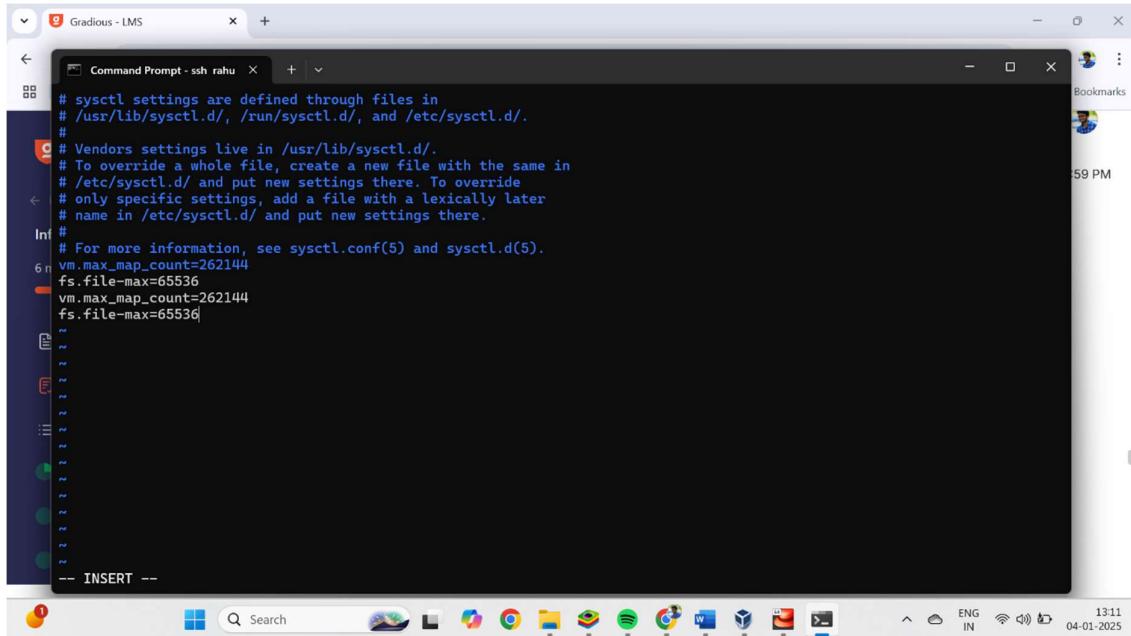
```
<title>abcd [Jenkins]</title><link rel="stylesheet" href="/static/ef374011/jsbundles/styles.css" type="text/css"><link rel="stylesheet" href="/static/ef374011/css/responsive-grid.css" type="text/css"><link rel="icon" href="/static/ef374011/favicon.svg" type="image/svg+xml"><link sizes="any" rel="alternate icon" href="/static/ef374011/favicon.ico"><link sizes="180x180" rel="apple-touch-icon" href="/static/ef374011/apple-touch-icon.png"><link color="#191717" rel="mask-icon" href="/static/ef374011/mask-icon.svg"><meta name="theme-color" content="#ffffff"><script src="/static/ef374011/scripts/prototype.js" type="text/javascript"></script><script src="/static/ef374011/scripts/behavior.js" type="text/javascript"></script><script src='/adjuncts/ef374011/org/kohsuke/stapler/bind.js' type='text/javascript'></script><script src="/static/ef374011/scripts/yui/dom/dom-min.js"></script><script src="/static/ef374011/scripts/yui/event/event-min.js"></script><script src="/static/ef374011/scripts/yui/animation/animation-min.js"></script><script src="/static/ef374011/scripts/yui/container/container-min.js"></script><script src="/static/ef374011/scripts/yui/connection/connection-min.js"></script><script src="/static/ef374011/scripts/yui/autocomplete/autocomplete-min.js"></script><script src="/static/ef374011/scripts/yui/element/element-min.js"></script><script src="/static/ef374011/scripts/yui/storage/storage-min.js"></script><script src="/static/ef374011/scripts/sortable.js" type="text/javascript"></script><link rel="stylesheet" href="/static/ef374011/scripts/hudson-behavior.js" type="text/javascript"><script src="/static/ef374011/scripts/yui/container/assets/container.css" type="text/css"><link rel="stylesheet" href="/static/ef374011/scripts/yui/menu/assets/skins/sam/menu.css" type="text/css"><link rel="search" href="/opensearch.xml" type="application/opensearchdescription+xml" title="Jenkins"><meta name="ROBOTS" content="INDEX, NOFOLLOW"><meta name="viewport" content="width=device-width, initial-scale=1"><script src='/adjuncts/ef374011/org/jenkinsci/plugins/scriptsecurity/scripts/ScriptApproval/FormValidationPageDecorator/validate.js' type='text/javascript'></script><script src="/static/ef374011/jsbundles/vendors.js" type="text/javascript"></script><script src="/static/ef374011/jsbundles/sortable-drag-drop.js" type="text/javascript"></script><script defer="true" src="/static/ef374011/jsbundles/app.js" type="text/javascript"></script>
```



```
</g>
</svg></div>
        About Jenkins
    </a><div class="jenkins-dropdown__separator"></div><a class="jenkins-dropdown__item" href="https://www.jenkins.io/participate/" rel="noopener noreferrer" target="_blank"><div class="jenkins-dropdown__item__icon"><svg aria-hidden="true" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path d="M352.92 80C288 80 256 144 256 144s-32-64-96.92-64c-52.76 0-94.54 44.14-95.08 96.8l-1-1 109.33 86.73 187.08 183 252.42a16 16 0 0 1 8 65.34 184.09-143.09 183-252.42-.54-52.67-42.32-96.8l-95.08-96.81z" fill="none" stroke="currentColor" stroke-linecap="round" stroke-linejoin="round" stroke-width="32"/></svg>
</div>
        Get involved
    </a><a rel="noopener noreferrer" href="https://www.jenkins.io/" class="jenkins-dropdown__item" target="_blank"><div class="jenkins-dropdown__item__icon"><svg aria-hidden="true" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 512 512"><path d="M384 224v184a40 40 0 0 1-40H104a40 40 0 0 1-40-40V168a40 40 0 0 1-40-40h167.48M336 64h112v112M224 288L440 72" fill="none" stroke="currentColor" stroke-linecap="round" stroke-linejoin="round" stroke-width="32"/></svg>
</div>
        Website

```

-sh-4.2\$ |



```
# sysctl settings are defined through files in
# /usr/lib/sysctl.d/, /run/sysctl.d/, and /etc/sysctl.d/.
#
# Vendors settings live in /usr/lib/sysctl.d/.
# To override a whole file, create a new file with the same name
# in /etc/sysctl.d/ and put new settings there. To override
# only specific settings, add a file with a lexically later
# name in /etc/sysctl.d/ and put new settings there.
#
# For more information, see sysctl.conf(5) and sysctl.d(5).
vm.max_map_count=262144
fs.file-max=65536
vm.max_map_count=262144
fs.file-max=65536
-- INSERT --

```

sh-4.2\$ |

Command Prompt - ssh rahu

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Sat Jan  4 07:39:22 2025
-sh-4.2$ sudo vi /etc/sysctl.conf
-sh-4.2$ |
```

Command Prompt - ssh rahu

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Sat Jan  4 07:39:22 2025
-sh-4.2$ sudo vi /etc/sysctl.conf
-sh-4.2$ sysctl -p
sysctl: permission denied on key 'vm.max_map_count'
sysctl: permission denied on key 'fs.file-max'
sysctl: permission denied on key 'vm.max_map_count'
sysctl: permission denied on key 'fs.file-max'
-sh-4.2$ susudo sysctl -p
-sh: susudo: command not found
-sh-4.2$ sudo sysctl -p
vm.max_map_count = 262144
fs.file-max = 65536
vm.max_map_count = 262144
fs.file-max = 65536
-sh-4.2$ |
```

```
C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Sat Jan  4 07:39:22 2025
-sh-4.2$ sudo vi /etc/sysctl.conf
sh: permission denied on key 'vm.max_map_count'
sh: permission denied on key 'fs.file-max'
sh: permission denied on key 'vm.max_map_count'
sh: permission denied on key 'fs.file-max'
sh-4.2$ susudo sysctl -p
sh: susudo: command not found
sh-4.2$ sudo sysctl -p
vm.max_map_count = 262144
fs.file-max = 65536
vm.max_map_count = 262144
fs.file-max = 65536
sh-4.2$ sudo vi /etc/security/limits.d/99-sonarqube.conf
```

```
root - nofile 65536
root - nproc 7610
```

Devops.default\_1683379605618\_65855 [Snapshot 1] [Running] - Oracle VM VirtualBox

Command Prompt - ssh rahul x + v

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Sat Jan 4 07:44:41 2025
-sh-4.2$ sudo systemctl start docker
-sh-4.2$
```

Gradius - IMS x +

Command Prompt - ssh rahul x + v

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.101
rahul@192.168.56.101's password:
Last login: Sat Jan 4 07:44:41 2025
-sh-4.2$ sudo systemctl start docker
-sh-4.2$ sudo docker pull sonarqube
Using default tag: latest
latest: Pulling from library/sonarqube
6414378be477: Pull complete
17da8ec43a12: Pull complete
d12988e90d61: Pull complete
f4d133ca2b7f: Pull complete
143733ae87a4: Pull complete
30c09c6c9f03: Pull complete
341bd20d4cc8: Pull complete
4f4fb708ef54: Pull complete
Digest: sha256:97d57acf7b39bb52dcc7824e4f1c2949631e13fe587f5fae79e7dbd1def85d34
Status: Downloaded newer image for sonarqube:latest
docker.io/library/sonarqube:latest
-sh-4.2$
```

```
Last login: Sat Jan  4 07:44:41 2025
-ssh-4.2$ sudo systemctl start docker
-ssh-4.2$ sudo docker pull sonarqube
Using default tag: latest
latest: Pulling from library/sonarqube
6414378b6477: Pull complete
17da8ec43a12: Pull complete
d12988e90d61: Pull complete
f4d133ca2b7f: Pull complete
143733ae87a4: Pull complete
30c09c6c9f03: Pull complete
341bd20d4cc8: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:97d57acf7b39bb52dcc7824e4f1c2949631e13fe587f5fae79e7dbd1def85d34
Status: Downloaded newer image for sonarqube:latest
docker.io/library/sonarqube:latest
-ssh-4.2$ docker images
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
-ssh-4.2$ sudo docker images
REPOSITORY          TAG      IMAGE ID   CREATED     SIZE
sonarqube           latest   6badad21f1230  4 weeks ago  1.12GB
rahul127/gradious  latest   d23ffffaf8e1a  11 months ago 2.43GB
nginx               latest   e56c8b6d6da68  11 months ago 1.08GB
mattermost          latest   4bde11f5916b  11 months ago 2.43GB
<none>              <none>  a9c70cf67100  11 months ago 2.43GB
mattermost/mattermost-preview  latest   398fd385e3e4  11 months ago 1.48GB
my-tomcat-app       latest   51bf4df326be  13 months ago 533MB
sonarqube           <none>  5decdd24cdf46  13 months ago 725MB
-ssh-4.2$
```

```
f4d133ca2b7f: Pull complete
143733ae87a4: Pull complete
30c09c6c9f03: Pull complete
341bd20d4cc8: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:97d57acf7b39bb52dcc7824e4f1c2949631e13fe587f5fae79e7dbd1def85d34
Status: Downloaded newer image for sonarqube:latest
docker.io/library/sonarqube:latest
-ssh-4.2$ docker images
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
-ssh-4.2$ sudo docker images
REPOSITORY          TAG      IMAGE ID   CREATED     SIZE
sonarqube           latest   6badad21f1230  4 weeks ago  1.12GB
rahul127/gradious  latest   d23ffffaf8e1a  11 months ago 2.43GB
nginx               latest   e56c8b6d6da68  11 months ago 1.08GB
mattermost          latest   4bde11f5916b  11 months ago 2.43GB
<none>              <none>  a9c70cf67100  11 months ago 2.43GB
mattermost/mattermost-preview  latest   398fd385e3e4  11 months ago 1.48GB
my-tomcat-app       latest   51bf4df326be  13 months ago 533MB
sonarqube           <none>  5decdd24cdf46  13 months ago 725MB
-ssh-4.2$ sudo docker volume create sonarqube-conf
sonarqube-conf
-ssh-4.2$ sudo docker volume create sonarqube-data
sonarqube-data
-ssh-4.2$ sudo docker volume create sonarqube-logs
sonarqube-logs
-ssh-4.2$ sudo docker volume create sonarqube-extensions
sonarqube-extensions
-ssh-4.2$
```

```
Gradius - LMS
Command Prompt - ssh rahu + ×
REPOSITORY           TAG      IMAGE ID      CREATED     SIZE
sonarqube            latest   6bada21f1230  4 weeks ago  1.12GB
rahul127/gradius    latest   d23ffffaf8e1a  11 months ago 2.43GB
nginx                latest   e56c8b6ddaa8  11 months ago 1.08GB
mattermost           latest   4bde11f5916b  11 months ago 2.43GB
<none>               <none>  a9c70cf67100  11 months ago 2.43GB
mattermost/mattermost-preview latest  398fd385e5e4  11 months ago 1.48GB
my-tomcat-app        latest   51bf4df526be  13 months ago 533MB
sonarqube            <none>  5decfd24cdf46  13 months ago 725MB
-sh-4.2$ sudo docker volume create sonarqube-conf
sonarqube-conf
-sh-4.2$ sudo docker volume create sonarqube-data
sonarqube-data
-sh-4.2$ sudo docker volume create sonarqube-logs
sonarqube-logs
-sh-4.2$ sudo docker volume create sonarqube-extensions
sonarqube-extensions
-sh-4.2$ sudo docker volume inspect sonarqube-conf
[
  {
    "CreatedAt": "2023-11-15T08:25:15Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-conf/_data",
    "Name": "sonarqube-conf",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ |
```

mkd.../sonarqube

13:22 04-01-2025

```
Gradius - LMS
Command Prompt - ssh rahu + ×
sonarqube-data
-sh-4.2$ sudo docker volume create sonarqube-logs
sonarqube-logs
-sh-4.2$ sudo docker volume create sonarqube-extensions
sonarqube-extensions
-sh-4.2$ sudo docker volume inspect sonarqube-conf
[
  {
    "CreatedAt": "2023-11-15T08:25:15Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-conf/_data",
    "Name": "sonarqube-conf",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ sudo docker volume inspect sonarqube-data
[
  {
    "CreatedAt": "2023-11-15T08:25:23Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-data/_data",
    "Name": "sonarqube-data",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ |
```

mkd.../sonarqube

13:22 04-01-2025

```
Gradius - LMS
Command Prompt - ssh rahu + ×
[{"Name": "sonarqube-data",
 "Options": null,
 "Scope": "local"
}]
-sh-4.2$ sudo docker volume inspect sonarqube-logs
[
  {
    "CreatedAt": "2023-11-15T08:25:30Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-logs/_data",
    "Name": "sonarqube-logs",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ sudo docker volume inspect sonarqube-extensions
[
  {
    "CreatedAt": "2023-11-15T08:25:41Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-extensions/_data",
    "Name": "sonarqube-extensions",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ |
mkd.../sonarqube
```

0 1 Search 13:23 ENG IN 04-01-2025

```
Gradius - LMS
Command Prompt - ssh rahu + ×
[{"Name": "sonarqube-data",
 "Options": null,
 "Scope": "local"
}]
-sh-4.2$ sudo docker volume inspect sonarqube-extensions
[
  {
    "CreatedAt": "2023-11-15T08:25:41Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/sonarqube-extensions/_data",
    "Name": "sonarqube-extensions",
    "Options": null,
    "Scope": "local"
  }
]
-sh-4.2$ mkdir /sonarqube
mkdir: cannot create directory '/sonarqube': File exists
-sh-4.2$ ln -s /var/lib/docker/volumes/sonarqube-conf/_data /sonarqube/conf
ln: failed to access '/sonarqube/conf': Permission denied
-sh-4.2$ sudo ln -s /var/lib/docker/volumes/sonarqube-conf/_data /sonarqube/conf
-sh-4.2$ sudo ln -s /var/lib/docker/volumes/sonarqube-data/_data /sonarqube/data
-sh-4.2$ sudo ln -s /var/lib/docker/volumes/sonarqube-logs/_data /sonarqube/logs
-sh-4.2$ sudo ln -s /var/lib/docker/volumes/sonarqube-extensions/_data /sonarqube/extensions
-sh-4.2$ |
```

0 1 Search 13:26 ENG IN 04-01-2025

```
-sh-4.2$ sudo docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:/opt/sonarqube/conf -v sonarqube-data:/opt/sonarqube/data -v sonarqube-logs:/opt/sonarqube/logs -v sonarqube-extensions:/opt/sonarqube/extensions sonarqube
docker: Error response from daemon: Conflict. The container name "/sonarqube" is already in use by container "93c25c2866a6clac7810d2e952a958b472268dbe9d2a7e6735b1eb2bce067bb0". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
-sh-4.2$ sudo docker remove sonarqube
sonarqube
-sh-4.2$ sudo docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:/opt/sonarqube/conf -v sonarqube-data:/opt/sonarqube/data -v sonarqube-logs:/opt/sonarqube/logs -v sonarqube-extensions:/opt/sonarqube/extensions sonarqube
f2c58la597a63cd19ad2a15f0f0d2aecd383187d30a467fa65b20c3b57ddb9a6
-sh-4.2$ sudo systemctl status sonarqube
Unit sonarqube.service could not be found.
-sh-4.2$ docker images
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
-sh-4.2$ sudo docker images
```

SonarQube is under maintenance

While waiting, install [SonarQube for IDE](#) in your IDE!

If you are an administrator and have no idea why this message is being shown, you should read the [upgrade guide](#).

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ENG IN 13:37 04-01-2025

# Assignment – 6 Build Jenkins Pipeline for 3 tier architecture involving Nodejs, ReactJS & mysql

```
-sh-4.2$ sudo git clone https://github.com/maheshgradioius/nodejs_server.git
Cloning into 'nodejs_server'...
remote: Enumerating objects: 21, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 21 (delta 6), reused 4 (delta 4), pack-reused 9
Unpacking objects: 100% (21/21), done.
-sh-4.2$ ls
app_backup.sh    database  fruits.txt  logs.sh      mysql57-community-release-el7-9.noarch.rpm.1 run      test
app_server       dev        gradious   lvmdata     nodejs_server          sbin      tmp
backuplogs       etc        hidden.txt  lvmdata1    node-mysql-crud          sonarqube  usr
backup_script.sh Favorites  home       mattermost1 opt          srv      vagrant
bin              file1.txt  java_project maven-test1 php.sh    ssl      var
boot             file2.txt  lib        media      proc          swapfile
data              file3.txt  lib64     mnt       root          sys
-sh-4.2$ cd nodejs_server
-sh-4.2$ ls
app.js  doctor_appointment.sql  package.json  package-lock.json  README.md.txt
-sh-4.2$ cd /usr/local
-sh-4.2$ ls
bin  etc  games  include  lib  lib64  libexec  openssl11  sbin  share  src
-sh-4.2$ cd src
-sh-4.2$ ls
-sh-4.2$ cd
-sh-4.2$ cd
-sh-4.2$ cd /srv
-sh-4.2$ ls
-sh-4.2$ cd
-sh-4.2$ cd /usr/share
-sh-4.2$ ls
aclocal      dict      git-core      java-1.8.0    maven      pki      tomcat
aclocal-1.13 doc       glib-2.0      javadoc     maven-effective-poms  plymouth  tuned
-sh-4.2$
```

```
-sh-4.2$ cd / git bash
-sh-4.2$ ls
app_backup.sh    database  fruits.txt  logs.sh      mysql57-community-release-el7-9.noarch.rpm.1 run      test
app_server       dev        gradious   lvmdata     nodejs_server          sbin      tmp
backuplogs       etc        hidden.txt  lvmdata1    node-mysql-crud          sonarqube  usr
backup_script.sh Favorites  home       mattermost1 opt          srv      vagrant
bin              file1.txt  java_project maven-test1 php.sh    ssl      var
boot             file2.txt  lib        media      proc          swapfile
data              file3.txt  lib64     mnt       root          sys
-sh-4.2$ cd nodejs_server
-sh-4.2$ ls
app.js  doctor_appointment.sql  package.json  package-lock.json  README.md.txt
-sh-4.2$ scp doctor_appointment.sql rahul@192.168.56.101:/etc/my.cnf
Could not create directory '/home/rahul/.ssh'.
The authenticity of host '192.168.56.101 (192.168.56.101)' can't be established.
ECDSA key fingerprint is SHA256:2VkhQus6+rydw6l0c13rtllsk6RNyyq26nlykHKqY.
ECDSA key fingerprint is MD5:65:06:9b:8b:e3:47:80:88:79:c7:6d:6c:0a:c3:dd:6a.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/rahul/.ssh/known_hosts).
rahul@192.168.56.101's password:
scp: /etc/my.cnf: Permission denied
-sh-4.2$ sudo scp doctor_appointment.sql rahul@192.168.56.101:/etc/my.cnf
rahul@192.168.56.101's password:
scp: /etc/my.cnf: Permission denied
-sh-4.2$ sudo scp doctor_appointment.sql root@192.168.56.101:/etc/my.cnf
root@192.168.56.101's password:
Permission denied, please try again.
root@192.168.56.101's password:
Permission denied, please try again.
root@192.168.56.101's password:
doctor_appointment.sql
-sh-4.2$
```

```
Command Prompt - ssh rahu + X
-sh-4.2$ cd /nodejs_server
-sh-4.2$ ls
app.js doctor_appointment.sql package.json package-lock.json README.md.txt
-sh-4.2$ cd
-sh-4.2$ mysql -ummuser -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mattermost |
| performance_schema |
| socks |
+-----+
4 rows in set (0.12 sec)

mysql> use mattermost;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
28°C Partly cloudy Search ENG IN 19:41 23-11-2023
```

```
Command Prompt - ssh rahu + X
found 0 vulnerabilities
-sh-4.2$ npm fund
server-mysql@1.0.0
  https://opencollective.com/nodemon
    nodemon@3.0.1
      https://paulmillr.com/funding/
        chokidar@3.5.3
          https://github.com/sponsors/jonschlinkert
            picomatch@2.3.1
          https://github.com/sponsors/RubenVerborgh
            follow-redirects@1.15.2
          https://github.com/sponsors/ljharb
            qs@6.11.0, side-channel@1.0.4, call-bind@1.0.2, get-intrinsic@1.1.3, has-symbols@1.0.3, object-inspect@1.12.2
            https://github.com/sponsors/feross
              safe-buffer@5.2.1
-sh-4.2$ npm install
up to date, audited 115 packages in 762ms
11 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
-sh-4.2$ npm start
> server-mysql@1.0.0 start
> node app.js
listening on port 3001
^Z [1]+ Stopped(SIGTSTP) npm start
23°C Mostly cloudy Search ENG IN 20:01 23-11-2023
```

The screenshot shows a web browser window with three tabs open. The active tab displays a JSON array of user objects. Each object contains fields: id, name, age, gender, status, consult, revisit, and doctor. The data includes entries for John Doe, Mukul Rao, Neeraj Sharma, Manjunath Arun Naik, Subbu Raja, Raj Kanna, and others.

```
[{"id":1,"name":"John Doe","age":28,"gender":"Male","status":"Consult","time":"06:00 PM","date":"2 Feb 2021","phone":"+91 987654321","doctor":"Dr. Ananth"}, {"id":2,"name":"Mukul Rao","age":28,"gender":"Male","status":"Revisit","time":"06:00 PM","date":"2 Feb 2021","phone":"+91 987654321","doctor":"Dr. Ananth"}, {"id":3,"name":"Neeraj Sharma","age":28,"gender":"Male","status":"Consult","time":"06:00 PM","date":"2 Feb 2021","phone":"+91 987654321","doctor":"Dr. Ananth"}, {"id":11,"name":"Manjunath Arun Naik","age":22,"gender":"Male","status":"Revisit","time":"06:00 PM","date":"2 Feb 2021","phone":"+91 932228949","doctor":"Dr. Ananth"}, {"id":12,"name":"Subbu Raja","age":22,"gender":"Male","status":"Consult","time":"10:00 AM","date":"10-12-2022","phone":"9812345678","doctor":"Dr. Raman"}, {"id":13,"name":"Raj Kanna","age":31,"gender":"Male","status":"Consult","time":"13:00 PM","date":"12-12-2022","phone":"8368285211","doctor":"Dr. Viswa"}]
```

The screenshot shows a Windows Command Prompt window titled "Command Prompt - ssh rahul". The user runs a "git clone" command to download a repository from GitHub. The command fails because the user lacks permissions to create a work tree directory. The user then attempts to run the command with "sudo", but the system denies the request.

```
C:\Users\rahul>ssh rahul@192.168.56.107
rahul@192.168.56.107's password:
Last login: Thu Nov 23 14:46:02 2023
-sh-4.2$ sudo mkdir git
-sh-4.2$ cd git
-sh-4.2$ git clone https://github.com/maheshgradious/nodejs_client.git
fatal: could not create work tree dir 'nodejs_client': Permission denied
-sh-4.2$ sudo git clone https://github.com/maheshgradious/nodejs_client.git
Cloning into 'nodejs_client'...
remote: Enumerating objects: 67, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (22/22), done.
remote: Total 67 (delta 18), reused 9 (delta 5), pack-reused 40
Unpacking objects: 100% (67/67), done.
-sh-4.2$ |
```

```
Gradious - LMS Maintenance
Command Prompt - ssh rahul Command Prompt - ssh rahul + -
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul>ssh rahul@192.168.56.107
rahul@192.168.56.107's password:
Last login: Sat Jan  4 08:09:46 2025
-sh-4.2$ sudo systemctl status nginx
● nginx.service - nginx - high performance web server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; vendor preset: disabled)
     Active: active (running) since Sat 2025-01-04 08:09:37 UTC; 1min 48s ago
       Docs: http://nginx.org/en/docs/
   Process: 674 ExecStart=/usr/sbin/nginx -c /etc/nginx/nginx.conf (code=exited, status=0/SUCCESS)
 Main PID: 710 (nginx)
    CGroup: /system.slice/nginx.service
            ├─710 nginx: master process /usr/sbin/nginx -c /etc/nginx/nginx.conf
            ├─711 nginx: worker process
            └─712 nginx: cache manager process

Jan 04 08:09:37 localhost.localdomain systemd[1]: Starting nginx - high performance web server...
Jan 04 08:09:37 localhost.localdomain systemd[1]: Started nginx - high performance web server.

-sh-4.2$ pwd
/home/rahul
-sh-4.2$
```

```
Search ENG IN 13:41 04-01-2025
Command Prompt - ssh rahul Command Prompt - ssh rahul + -
8 rows in set (0.13 sec)

mysql> use doctor_appointment;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+---------------------+
| Tables_in_doctor_appointment |
+-----+
| patients             |
+-----+
1 row in set (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON doctor_appointment.* TO 'mmuser'@'%';
Query OK, 0 rows affected (0.15 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.08 sec)

mysql> exit
Bye
-sh-4.2$ sudo npm start

> server-mysql@1.0.0 start
> node app.js

listening on port 3001
GET /api/users
```

Search ENG IN 15:41 04-01-2025

```
server {32C
    listen      80;
    listen      [::]:80;
    server_name _;
    #access_log  /var/log/nginx/host.access.log  main;

    location / {
        root   /usr/share/nginx/html;
        index  index.html index.htm;
    }
    location = /favicon.ico {
        return 204;
    }

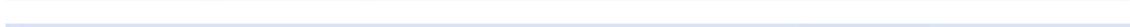
    #error_page  404          /404.html;

    # redirect server error pages to the static page /50x.html
    #
    error_page  500 502 503 504  /50x.html;
    location = /50x.html {
        root   /usr/share/nginx/html;
    }

    # proxy the PHP scripts to Apache listening on 127.0.0.1:80
    #
    location /usr/share/nginx/html/build| {
        proxy_pass  http://192.168.56.101:80;
    }

    # pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
    #
-- INSERT --

```



A screenshot of a Microsoft Edge browser window. The address bar shows 'Not secure 192.168.56.101'. The main content area displays a 'Welcome to Gradious Doctor Appointment Booking' page. It features a form with fields for Patient Name, Phone Number, Doctor Name, Gender, Date, Age, and Time, along with a 'Book Appointment' button. Below the form is a table with columns: Patient, Status, Appointment, Phone, Doctor, and Actions. One row in the table is shown, detailing a booking for 'John Doe' (28 yrs, Male) with 'Consult' status, '06:00 PM 2 Feb 2021' appointment, '+91 987654321' phone number, and 'Dr. Ananth' doctor. The browser's standard toolbar and address bar are visible at the top.

