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2KE20CS032

Assignment 26

Understood. To follow the provided instructions and create the files/directory using the same name and case as provided in the task steps, please provide me with the specific names and case instructions for the files/directory you want to create.

Jenkins -2

Assignment 2 :Jenkins Maven Project

```
lusy@localhost.localdomain /etc/nginx/conf.d (3m 27.04s)
sudo yum update
[sudo] password for lusy:
Last metadata expiration check: 1:50:07 ago on Sat 14 Oct 2023 10:23:16 AM IST.
Dependencies resolved.
=====
Package                                                    Architecture
=====
Installing:
kernel                                                    aarch64
```

1. Download and install apache maven and set the environmental variables for apache-maven

```
lusy@localhost.localdomain /etc/nginx/conf.d (0.532s)
sudo yum install maven -y
Last metadata expiration check: 1:53:47 ago on Sat 14 Oct 2023 10:23:16 AM IST.
Package maven-1:3.6.3-15.el9.noarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
lusy@localhost.localdomain /etc/nginx/conf.d (0.188s)
mvn -version
Apache Maven 3.6.3 (Red Hat 3.6.3-15)
Maven home: /usr/share/maven
Java version: 11.0.18, vendor: Red Hat, Inc., runtime: /usr/lib/jvm/java-11-open
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "5.14.0-370.el9.aarch64", arch: "aarch64", family: "u
```

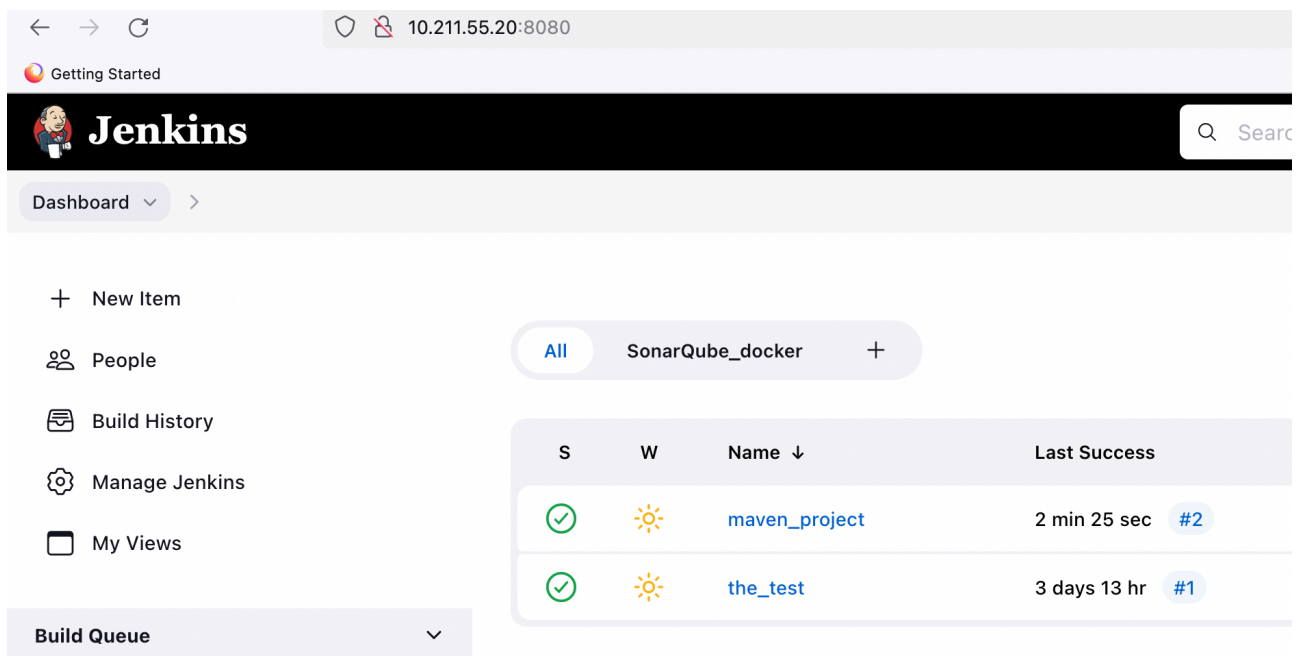
```
lusy@localhost.localdomain /etc/nginx/conf.d (44.073s)
vi ~/.bashrc
```

```
lusy@localhost.localdomain /etc/nginx/conf.d (0.07s)
sudo systemctl start jenkins
```

```
lusy@localhost.localdomain /etc/nginx/conf.d (1.035s)
sudo systemctl status jenkins
```

```
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: disabled)
   Active: active (running) since Sat 2023-10-14 10:08:42 IST; 2h 9min ago
     Main PID: 712 (java)
```

2. Create new project ex: maven _project



The screenshot shows the Jenkins Dashboard. On the left, there is a sidebar with navigation links: New Item, People, Build History, Manage Jenkins, and My Views. The main area displays the Build Queue, which is currently empty. Below the sidebar, there is a 'Build Queue' section with a dropdown arrow. On the right, there is a table showing the status of builds. The table has columns for 'S' (Status), 'W' (Waiting), 'Name', and 'Last Success'. Two builds are listed: 'maven_project' and 'the_test'.

S	W	Name ↓	Last Success
✓	☀	maven_project	2 min 25 sec #2
✓	☀	the_test	3 days 13 hr #1

4. Select Freestyle project and proceed 'Next'



The screenshot shows the 'Source Code Management' configuration screen in Jenkins. The 'None' option is selected under 'Source Code Management'. The 'Git' option is selected under 'Repositories'. The 'Repository URL' field is filled with 'https://github.com/maraks-gradious/maven-test1'. The 'Credentials' dropdown menu is set to 'none'. There is an 'Add' button at the bottom.

Select the source code management as git, provide the repository url as
Below

<https://github.com/maraks-gradious/maven-test1>

6. In the branches to build, modify master to main

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

(Auto) ▾

7. Modify the build step as below

Build Steps

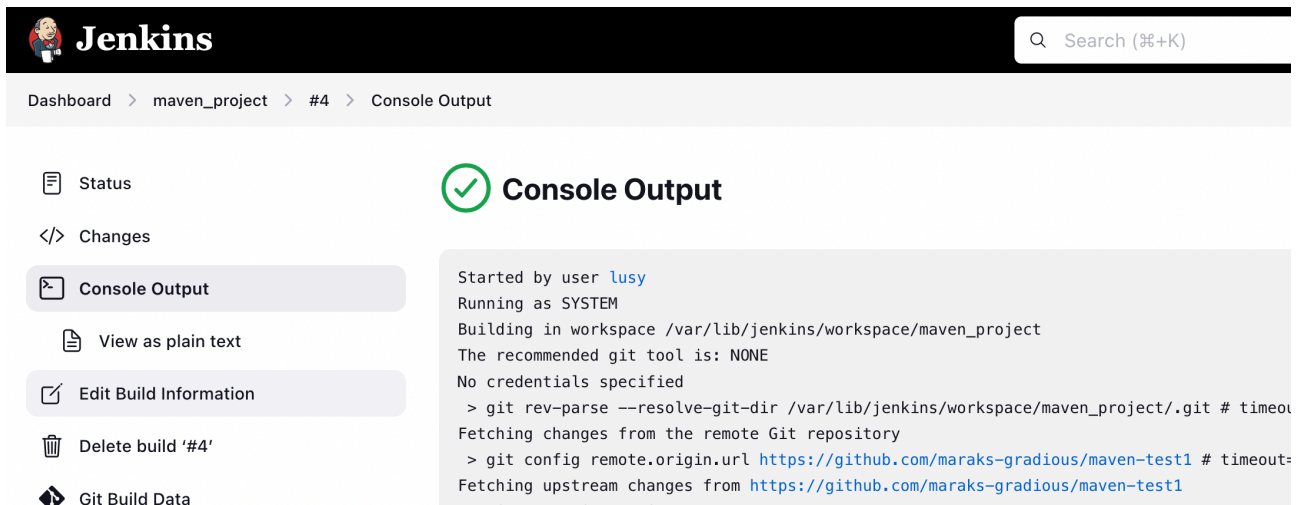
≡ Execute shell ?

Command

See [the list of available environment variables](#)

mvn clean verify

8. You can see the console output as below



The screenshot shows the Jenkins web interface. At the top is the Jenkins logo and a search bar. Below the navigation bar, the breadcrumb path is "Dashboard > maven_project > #4 > Console Output". On the left sidebar, there are several menu items: "Status", "Changes", "Console Output" (which is highlighted), "View as plain text", "Edit Build Information", "Delete build '#4'", and "Git Build Data". The main content area displays the "Console Output" for build #4, starting with a green checkmark icon and the title "Console Output". The output text shows the build process: "Started by user lusy", "Running as SYSTEM", "Building in workspace /var/lib/jenkins/workspace/maven_project", "The recommended git tool is: NONE", "No credentials specified", and then two git commands: "> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/maven_project/.git # timeout=" and "> git config remote.origin.url https://github.com/maraks-gradious/maven-test1 # timeout=".

9. You can verify the output of your builds in your jenkins home directory which is in the path

/var/lib/jenkins/workspace

```
lusy@localhost.localdomain:/etc/nginx/conf.d (0.014s)
cd /var/lib/jenkins/workspace

lusy@localhost.localdomain /var/lib/jenkins/workspace (0.026s)
ls
maven_project  sona  SonarQube  the_test
```